

### Bundle of documents for Oral hearings commencing from 19 August 2024 in relation to the Queen Elizabeth University Hospital and the Royal Hospital for Children, Glasgow

# Bundle 27 Miscellaneous Documents Volume 18

This document may contain Protected Material within the terms of <u>Restriction Order</u> <u>1</u> made by the Chair of the Scottish Hospitals Inquiry and dated 26 August 2021. Anyone in receipt of this document should familiarise themselves with the terms of that Restriction Order as regards the use that may be made of this material.

The terms of that Restriction Order are published on the Inquiry website. A51115531

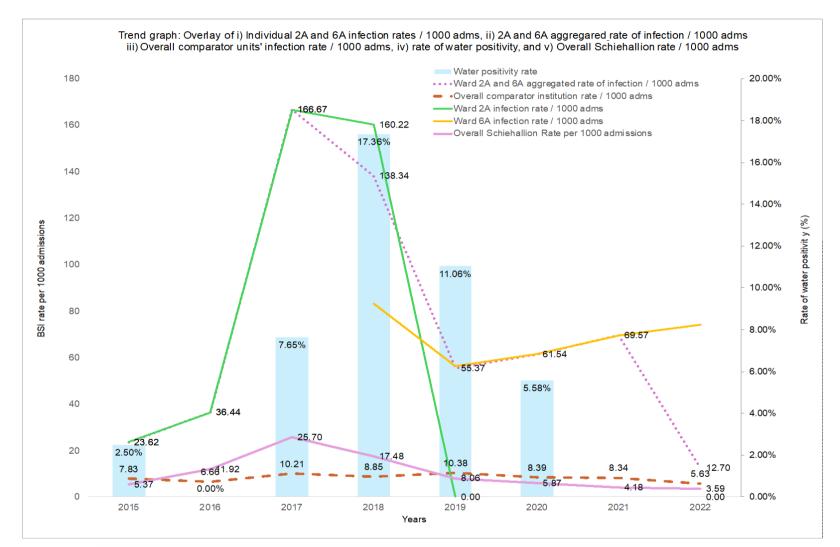


### Table of Contents

1	A50845040	Sid Mookerjee, Overall Schiehallion Rate of Infection Graph - 05 November 2024	Page 3
2	A50868428	QEUH - Case Note Review - Final Report from the Independent Expert Panel to the Cabinet Secretary for Health and Social Care - July 2021	Page 4
3	A32653931	D Kelly, 'Authorising Engineer Water Systems Management and Compliance Audit NHS Water Systems' - 20 November 2019	Page 10
4	A50909723	Samuel L. Aitken et al - Alterations of the Oral Microbiome and Cumulative Carbapenem Exposure Are Associated With Stenotrophomonas maltophilia Infection in Patients With Acute Myeloid Leukemia Receiving Chemotherapy - May 2021	Page 32
5	A50908915	Marzuillo C, Giusti MD, Tufi D, et al. Molecular Characterization of Stenotrophomonas maltophilia Isolates from Cystic Fibrosis Patients and the Hospital Environment. Infection Control & Hospital Epidemiology 200 - August 2009	Page 39

6 A49629930 NSGH - SoA (1)

Page 40



Year	Cumulative Admissions from SR Table 3 Page 88	Cumulative Infections from Table 8.1.15 QR Page 24	Overall Schiehallion Rate per 1000 admissions	Overall compatator rate per 1000 admissions from Table 9.2 Page 35	Cumulatrive Incidence Rate Ratio (IRR)
2015	1303	7	5.37	7.83	1
2016	2266	27	11.92	6.66	2
2017	2568	66	25.70	10.21	3
2018	2517	44	17.48	8.85	2
2019	2356	19	8.06	10.38	1
2020	1532	9	5.87	8.39	1
2021	1914	8	4.18	8.34	1
2022	1950	7	3.59	5.63	1

#### QUEEN ELIZABETH UNIVERSITY HOSPITAL & ROYAL HOSPITAL FOR CHILDREN, GLASGOW. CASE NOTE REVIEW

#### Final Report from the Independent Expert Panel to the Cabinet Secretary for Health and Social Care

#### July 2021

#### **Chronology of the Case Note Review**

28 January 2020	The Cabinet Secretary for Health and Sport announced plans for a Case Note Review
24 February 2020	The Case Note Review commenced
8 April 2020	First Panel Meeting
26 May – 28 July 2020	Panel meetings suspended because of Covid commitments
22 December 2020	First review of all cases completed
19 January 2021	Second review of all cases completed
22 February 2021	Draft of Overall Report issued to Stakeholders for comment
22 March 2021	Overall Report published
19 April 2021	Individual Reports sent to families
26 April 2021	First individual family meeting
26 May 2021	Final written communication to families
11 June 2021	Final meeting with RHC clinicians
2 July 2021	Final Core Project Team meeting
6 July 2021	Final individual family meeting

# Summary of Findings (Extract from the Executive Summary of the Overall Report from the Case Note Review)

- 84 children and young people between them experienced 118 episodes of infection which fulfilled the criteria set for inclusion in our review.
- Their age ranged from 3 months to 18 years 10 months at the time of their first infection.
- The great majority had a diagnosis of cancer or leukaemia but a small minority had other forms of serious blood disease or another condition requiring the expertise of a haematologist or oncologist.
- Although over three quarters of patients experienced only one episode of infection, ten had two episodes and several had three or more episodes, up to a total of eight episodes in one patient.
- Using an approach that we describe in detail in our report, we determined that whilst eight episodes were unrelated to the hospital environment, and in one case we were unable to determine the relationship, of the rest 76 (70%) could possibly relate to the hospital environment and 33 (30%) probably did. We were unable to identify evidence that unequivocally provided a definite relationship between any infection episode and the environment. There are complex reasons for this which we discuss in more detail in the body of the report.
- In the absence of a definitive link to the environment, we nevertheless felt the possibility
  of a link remained strong. We grouped episodes we had defined as 'Strong Possible',
  'Probable' & 'Strong Probable' into a single group which we felt might reasonably be
  considered to be 'Most Likely' linked to the environment. This constituted 37 (34%) of all
  episodes and included an excess of one particular bacterium (Stenotrophomonas). There
  was also an increased likelihood that the infections constituting the 'Most Likely' group
  had occurred in 2018: this may well be related to the particular excess of
  Stenotrophomonas bacteraemias in that year.
- We designed a framework for assessing the overall impact of an infection on a patient. This framework included consideration of various factors including the duration of hospitalisation attributable to the infection; duration of antibiotic therapy; the necessity to remove the patient's Central Venous Line (CVL) to resolve the infection; the need for admission for intensive care (PICU); the need to modify the planned delivery of cancer treatment; and death. This allowed us to score overall impact on a five point scale from None to Critical. Only 6 (5%) of evaluable episodes were assessed as having no or minor impact whilst 44 (38%) scored as major or critical. The breakdown of these individual factors can be summarised as follows:
  - o 57 (58%) episodes involved an additional hospital stay of over 2 weeks.
  - 78 (68%) episodes resulted in the removal of the patient's CVL.
  - 12 (11%) episodes required admission to PICU.
  - 60 (48%) assessable episodes resulted in a delay to planned cancer treatment of which 12 (12%) were for more than 2 weeks.
- We found that the deaths of 2 of the 22 children and young people who had died by the time of the publication of this report were, at least in part, the result of their infection. Both of these children also had other serious medical problems and it is our view that, even without the infection, their survival would still have been uncertain. Within the constraints necessary to protect individual patient identity, we discuss these deaths in more detail in the body of our report.

We recognise that nothing we have been able to measure can truly reflect the broader impact of these infections on the lives of the children and young people who were affected,

and their families. Unplanned or prolonged admission, or both, will contribute to the already significant impact that their disease and its treatment has on their lives. It further disrupts schooling, social life, parental work, and the care of siblings or dependent relatives. It contributes to additional anxiety because families are well aware that infection is a risk, can be serious and may be life threatening; also, families are anxious about the consequences of delays to treatment. In this respect, our findings underline the very significant additional burden that these infections, whatever their cause, must have had on the children and young people concerned, and their families.

#### Recommendations

The Overall Report made 44 recommendations within 15 separate themes, some of which also overlap with themes highlighted in previous reports including the November 2019 Health Protection Scotland report. Most of the recommendations apply to NHS GGC but some have wider relevance to NHS Scotland and to the Managed Service Network for Children and Young People with Cancer.

#### **Contact with Individual Families**

Care was taken during the work of the Expert Panel to maintain communication with families about the progress of the Case Note Review.

The Overall Report was couriered to families in advance of its publication date. It was subsequently learned that successful delivery was ultimately made to all but one family. Despite extensive efforts jointly with NHS GGC staff, this family has never been traced. This child is one of the two patients identified in the report whose death was 'at least in part, the result of their infection'. This matter has since been the focus of media and political attention: circumstances suggest it is unlikely that further efforts will successfully locate the family.

The individual reports sent to families in April 2021 were constructed as a letter template which was adapted to offer differently worded versions for bereaved families, for young people now over the age of 18 years, and for all others.

The letters incorporated several elements, including:

- Reference to section 3.6 of the Overall Report which set out the Expert Panel Review Process.
- An invitation for the family to meet with the Panel, and a supplementary information sheet about how to arrange this.
- A suggestion that the family might agree to share their individual report with their child's medical team, and a supplementary information sheet about providing the necessary consent for this.
- A clinical summary of each infection episode under review
- The Panel's response to the key questions considered in the review of each case.
- A list of resources for further help and support compiled with the assistance of staff at NHS GGC.

In one case, the family's GP advised that the overall report, individual report and associated correspondence required translation into mandarin to ensure that the family concerned had the opportunity to read and understand the findings. This has been done in conjunction with APS (publisher of Scottish Government Publications).

#### **Response from the Families**

By the end of June, only twenty families (24%) had provided consent to allow their child's individual report to be shared with the medical team. This low response may represent a reluctance of families to share information with NHS GGC whether or not the family concerned is also contemplating legal action.

Thirteen families (15%) have made individual contact with the Review Team using the designated email address and telephone number provided. Of these, all nine who requested a meeting have now met with the Panel.

All except one of the meetings were held with two members of the Expert Panel and one member of the Project management team. In one case, Professor Stevens met the family alone (with a member of the Project management team) because of the unavailability of other members of the Panel.

In one case, the meeting was with the child's grandparents (who are the legal guardians) but in all others, the meeting was held with one or both parents. In one case, another member of the family was present and was asked to present the family's views on behalf of the parents; in three cases, legal representatives were present but did not participate in the discussion. Eight meetings were conducted using video conference and one, by request, by telephone conference.

Two other families and one individual patient now older than 18 years, contacted the Review Team in writing. One wrote to thank the Panel for their work and the two others raised issues in relation to the reports they had received.

In three cases, it was necessary to return to the original case records to obtain additional information needed to respond to points raised by the families and to correct an error in details that had been provided in their individual reports. None of these errors were in data used by the Panel to reach its decision about each case.

Feedback from families was generally, but not exclusively, positive about their child's medical and nursing care. Important questions and themes raised by families in their meetings with the Panel included the following:

- Was the Panel independent if all members had previously held responsibilities within the NHS?
- Was the Panel aware of the information provided by the earlier whistle blowers at NHS GGC?
- Confusion about why their child was included in the Case Note Review the family concerned believed they hadn't been told that their child was to be included.
- Why didn't the Case Note Review address other infections as well (e.g. fungal infections)?
- Confusion and anxiety about policies implemented in response to the infections, such as: the necessity for antibiotic prophylaxis; patients not being able to use the shower in hospital; patients only being permitted to drink bottled water on the ward.
- Concern about the standard of cleanliness on wards
- Feelings of guilt about not being able to protect their child from a preventable risk
- Distress at reading the report having not previously been aware of the potential severity of the infection
- Poor communication from within NHS GGC about the scale of the risk known about the hospital environment, and the adequacy of the response to those risks

- How can there be certainty that NHS GGC will respond adequately to the recommendations made?
- Why has no one been held to account for what happened?
- Lack of trust in NHS GGC
- Lack of trust in Scottish Government

In four families, specific individual issues were raised:

- Delay in giving antibiotics during a septic episode because their child was not on the haematology oncology ward and staff in the clinical area in which he was being nursed did not have the skills required for central line access
- Inadequate efforts made by staff to ensure clear communication with a child who had become deaf as a result of his treatment.
- Uncertainty about responsibility for future clinical care.
- Alleged failure of NHS GGC to inform the family of an investigation to a further episode of Gram-negative bacteraemia.

#### **Action taken**

Further letters clarifying points raised in meetings, or from written communications, were sent to ten families, two of whom each received two letters.

In three cases, contact was made directly with the child's medical consultant to recommend specific action.

A letter was sent to the Chief Executive of NHS GGC raising concern about the failure to take the action recommended within NHS GGC itself (to arrange testing of the home water supply) following recurrent infections in a child that were thought possibly to have their origin in the child's home environment. The Chief Executive has since written to the family concerned to apologise.

The alleged failure of NHS GGC to inform a family of the results of an internal investigation into an infection episode that occurred in 2020 has been escalated to the Director of Nursing and Lead for Healthcare Infection at NHS GGC.

#### **Other activity**

The review team also responded to concerns raised by one family whose child was not included in the Case Note Review: arrangements for addressing the needs of this family were escalated via Professor Craig White.

Dr Christine Peters, Consultant Microbiologist at NHS GGC wrote to the Panel for permission to access microbiological data collated by NHS GGC for the Case Note Review. She said the microbiology management team had told her she would need permission from the Panel for access to these data. Given the concerns raised in the Overall Report about the adequacy of the microbiological response to the emerging picture of unusual infections at NHS GGC, Professor Stevens wrote to the Chief Executive of NHS GGC to express concern at the need for this request. Inconsistencies between the response received from the Chief Executive and the situation as reported by Dr Peters suggest that relationships within the microbiology team at NHS GGC remain problematic.

#### **Communication with Clinicians**

A final meeting was held between Professor Stevens and the RHC haematology oncology clinicians on 11 June 2021. A general update was offered about the progress of meetings

with families, and questions were answered. The poor perception by families of the quality of prior communication with them from NHS GGC was highlighted as an area that must improve in order to win back trust. Of greatest concern, however, was the fact that the clinicians did not seem to be aware (at that point) of any plans to assure them and the families of their patients of the safety of the environment of Wards 2A and B which are, it was understood, to be reopened in September after extensive remedial works. This concern was escalated to members of the Oversight Board after that meeting.

#### **Closure of the Case Note Review**

A final letter was sent to all families on 26 May 2021. This notified them that the work of the Case Note Review would complete at the end of June and included a reminder that requests for meetings with the Panel, and for returning consent to share individual reports with the medical team, should be completed by mid-June if possible.

The letter referred to the ongoing work of the Independent Inquiry led by Lord Brodie and provided details of the Inquiry's website.

The letter also referred to retention of data from the Case Note Review and the plan for the Scottish Government to take over data controller responsibility for documents and data generated and stored by the review team during the period of the Case Note Review. A Privacy Notice was enclosed which set out for families the rules under which data will be used and can be disclosed; how long information will be kept; and provided contact details for questions and concerns.

It has been agreed that the designated email address will continue to be monitored in the short term (to the end of August 2021) so as to ensure that families will continue to be able to gain advice about support for future concerns.

The contracts held by the Expert Panel with Scottish Government expired on 30 June 2021.

#### **Ongoing Concerns**

The Panel expresses concern about:

- 1. The extent to which continuing oversight will assure NHS GGC's response to the all recommendations made in the Case Note Review Overall Report
- 2. The action required to address the continuing low level of confidence and trust held by families in the management of NHS GGC (in contrast to their generally positive views about clinical care).
- 3. The need for NHS GGC to implement and communicate a plan that will assure staff and families of the safety of Wards 2A and B when they reopen for clinical use, including the detail of pre-occupation checks and on-going monitoring of microbiological safety.
- 4. The clarity of arrangements for the continuing support of families who have been affected by the infections investigated by the Case Note Review.



MCG Stevens Lead, Independent Expert Panel

Site Address: Bouygues E&S FM Limited Royal Hospital for Children a Little France Crescent Edinburgh EH16 4TJ	nd Young People	
Date:	Auditor:	Staff Interviewed:
20 <sup>th</sup> November 2019	Dennis Kelly - AE Water for NHS Lothian	Mr Ian Clark
		Performance and Compliance Manager for Bouygues
Date of Previous Audit The site has not been previo		
Site General Description	»n:	
		ne new Edinburgh Royal Infirmary in Little France in Edinburgh. with the water, ventilation, fire and drainage systems.
medical care, haematology a		uding acute medical and surgical care, specialist surgical and ital will also provide service es for the Child and Adolescent
Executive Summary:		
hospital is operated from an	FM point of view by Bouygues. The hospital, while a	the current operation of the water systems at the RHCYP. The complete, is not yet opened because of a number of technical vith the rest of the hospital opening in the autumn of 2020.

#### Authorising Engineer Water Systems Management and Compliance Audit NHS Water Systems

This audit looked at the delivery of the water system required risk reduction processes and procedures which are being delivered by Bouygues at the hospital.

Page 11

In summary, the compliance audit found a high level of compliance with the requirements of the HSE's ACoP L8 and HSG 274 documents as well as with the HTM 04-01 document. Bouygues conscientiously deliver the required processes and procedures at the hospital.

There are ten recommendations detailed for action and none of these is scored above the medium level of risk. This is a low number when compared to the findings generally encountered in the healthcare sector.

The recommendations that are made in this audit report relate mainly to paperwork and record issues. There are no substantive issues of concern with regard to the tasks being undertaken and the level of task completion.

Bouygues are therefore meeting the requirements of the guidance and are successfully delivering and recording the required work on the hospital water systems.

Thanks are due to Mr Ian Clark, Bouygues Compliance and Performance Manager for his help in completing this audit.

HighRemedial Action is needed but not immediatelyMediumAcceptable risk but some concerns and should be reviewedLowRisk controlled and acceptableAudited TopicLevel of RiskRisk AssessmentSchematic DrawingsSchematic DrawingsManagement and CompetencyWritten Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital ProjectsWater Safety Group	Medium       Acceptable risk but some concerns and should be reviewed         Low       Risk controlled and acceptable         Audited Topic       Level of Risk         Risk Assessment       Schematic Drawings         Management and Competency       Written Scheme Monitoring and Records         Correct and Safe Operation       On Going Water Treatment         Cleaning and Disinfection Procedures       New Build and Refurb Capital Projects
LowRisk controlled and acceptableAudited TopicLevel of RiskRisk Assessment	LowRisk controlled and acceptableAudited TopicLevel of RiskRisk Assessment
Audited TopicLevel of RiskRisk Assessment	Audited TopicLevel of RiskRisk Assessment
Risk AssessmentImage: Construct of the systemSchematic DrawingsImage: Construct of the systemManagement and CompetencyImage: Construct of the systemWritten Scheme Monitoring and RecordsImage: Construct of the systemCorrect and Safe OperationImage: Construct of the systemOn Going Water TreatmentImage: Construct of the systemCleaning and Disinfection ProceduresImage: Construct of the systemNew Build and Refurb Capital ProjectsImage: Construct of the system	Risk AssessmentImage: Constraint of the systemSchematic DrawingsImage: Constraint of the systemManagement and CompetencyImage: Constraint of the systemWritten Scheme Monitoring and RecordsImage: Constraint of the systemCorrect and Safe OperationImage: Constraint of the systemOn Going Water TreatmentImage: Constraint of the systemCleaning and Disinfection ProceduresImage: Constraint of the systemNew Build and Refurb Capital ProjectsImage: Constraint of the system
Risk AssessmentImage: Construct of the systemSchematic DrawingsImage: Construct of the systemManagement and CompetencyImage: Construct of the systemWritten Scheme Monitoring and RecordsImage: Construct of the systemCorrect and Safe OperationImage: Construct of the systemOn Going Water TreatmentImage: Construct of the systemCleaning and Disinfection ProceduresImage: Construct of the systemNew Build and Refurb Capital ProjectsImage: Construct of the system	Risk AssessmentImage: Constraint of the systemSchematic DrawingsImage: Constraint of the systemManagement and CompetencyImage: Constraint of the systemWritten Scheme Monitoring and RecordsImage: Constraint of the systemCorrect and Safe OperationImage: Constraint of the systemOn Going Water TreatmentImage: Constraint of the systemCleaning and Disinfection ProceduresImage: Constraint of the systemNew Build and Refurb Capital ProjectsImage: Constraint of the system
Schematic DrawingsManagement and CompetencyWritten Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects	Schematic DrawingsManagement and CompetencyWritten Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects
Management and CompetencyWritten Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects	Management and CompetencyWritten Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects
Written Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects	Written Scheme Monitoring and RecordsCorrect and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects
Correct and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects	Correct and Safe OperationOn Going Water TreatmentCleaning and Disinfection ProceduresNew Build and Refurb Capital Projects
On Going Water Treatment       On Going Water Treatment         Cleaning and Disinfection Procedures       On Going Water Treatment         New Build and Refurb Capital Projects       On Going Water Treatment	On Going Water Treatment       On Going Water Treatment         Cleaning and Disinfection Procedures       On Going Water Treatment         New Build and Refurb Capital Projects       On Going Water Treatment
Cleaning and Disinfection Procedures New Build and Refurb Capital Projects	Cleaning and Disinfection Procedures
Water Safety Group	Water Safety Group

Summary of Recommendations			
Recommendations	Risk Level	Completed Date	Signature
Recommendations from the Risk Assessment S	ection		
1. It is recommended that a new risk assessment is completed shortly after the hospital is occupied and operational.			
2. It is recommended that NHS Lothian are reminded of their obligation and responsibilities with regard to the dental water systems.			
3. It is recommended that the competency levels of the currently involved staff is checked for suitability			
Recommendations on the Schematic Drawings S	Section	·	
4. It is recommended that drawings are reviewed and updated on an annual basis.			
Recommendations on the Management and Compete	ncy Sect	ion	
5. It is recommended that NHS Lothian are requested to provide the required NHS Lothian staff details to enable the management structure and lines of communications section to be completed.			
6. It is recommended that if the final water safety policy document has any changes made then the new document should be added to the written scheme.			
Recommendations on the Written Scheme, Monitoring and	Records	Section	
7. It is recommended that the contractors visit records for expansion vessels, along with a description of the completed tasks, are held in the written scheme records folder.			
8. It is recommended that the records for TMV/TMT servicing are added to the records folder once the servicing process is completed.			
Recommendations on the Correct and Safe Operation	on Sectio	on	
None required			

	Recommendations on the Ongoing Water Treatment Section									
	o the existence and location of the service records for the filter system should new service records for the filter system service records for the filter service new service records for the filter service records									
	Recommendations on the Cleaning and Disinfection Procedures Section									
	ended that if contractors are to be used on a long term basis that the method re included in the control scheme SOP's.									
	Recommendations on the New Build and Refurbishment Capital Projects Section									
None required	one required									
	Recommendations on the Water Safety Group Section									
None required										

Risk Assessment	Y or N N/A Partial Or U/K	Comments	Risk Level
Is there a written risk assessment in place for the building water systems?	Y	The risk assessment (RA) was completed by the Clira Ltd	
Was the risk assessment completed and delivered to site within the past two years?	Y	The risk assessment was completed on the 18 <sup>th</sup> to the 21 <sup>st</sup> February 2019.	
Does the site/organisation have plans with regard to reviewing or redoing the risk assessment?	Y	<ul> <li>The RA was completed prior to the building being fully utilized as a working hospital.</li> <li>It was stated that the RA was undertaken post building completion. As a consequence management records and system monitoring data was not available to be reviewed in the risk assessment. It is recognised by Bouygues that as a consequence of patients not yet using the building, that a new RA will be required immediately post occupation.</li> <li>It is recommended that a new risk assessment is completed shortly after the hospital is occupied and operational.</li> </ul>	
Does the risk assessment address all the water systems in the building? Are there any systems that are defined as being excluded from the assessment in the RA scope?	Υ	The RA states that all water systems have been risk assessed. The RA recognises in para 1.2 that the building is not yet in full use and it is recommended that a new risk assessment is completed when full use or partial phased use is achieved. The dental systems are mentioned in action item 31 and details some actions that are required in compliance with	

		<ul><li>HTM 01-05. It was stated during this audit that these actions are the responsibility on NHS Lothian.</li><li>It is recommended that NHS Lothian are reminded of their obligation and responsibilities with regard to the dental water systems.</li></ul>	
Does the risk assessment review any previous risk assessment document, with particular attention being paid to the completion of identified remedial tasks identified in the previous risk assessment?	N/A	There is no previous risk assessment.	
Does the risk assessment review the current risk reduction processes and procedures that are currently in use at the site?	N/A	This is not applicable in that the water systems came under the control of Multiplex during the build phase and that if any actions were completed then it was stated that they were not recorded. The risk associated with this cannot be fully understood. Bouygues have had to adopt this risk and work with it during the current phase.	
Does the risk assessment contain details of the people/organisations who are involved in the risk reduction processes and procedures? This should include comments on the dutyholder, the responsible person, any deputy responsible persons and also service providers and contractors.	N	These details were not available at the time the risk assessment was completed as no management had been formerly appointed or communicated at the time of competing the RA. This is detailed in section 3.2 of the RA document. The written scheme that is n ow in place does contain details of the people/organisations.	
Is there an assessment of the competency of all involved parties in the risk assessment?	Ν	Item number 2 in the management procedures section states that no training records were available at the time of the risk assessment being completed. It is recommended that the competency levels of the currently involved staff is checked for suitability	

Does the risk assessment specifically address and comment on evidence of the current defect/remedial action processes and procedures?	N/A	There were no remedial action processes and procedures in place at the time the risk assessment was completed.
Is there an assessment of the susceptibility of persons who may be affected by the building water systems?	Y	There is a comment in section 4.1 stating that the susceptibility of the exposed population will be high. It states that at the time of the RA completion the susceptibility of the construction staff involved in the build phase was medium.
Is there a schematic diagram provided with the risk assessment?	N/A	This was not part of the scope of supply of the RA but has since been completed by Clira at a later date. As fitted drawings are also available for the building.
Is there a new written scheme provided as part of the risk assessment?	Y	Recommendations for a written scheme of control are made in item number 3 in section 3.3 – Review of Written Scheme. The suggested written scheme has since been updated and expanded by Bouygues.
Does the assessment contain details of all the component parts of the water systems? This could include tanks, calorifiers, pipework and pipework layout, outlets, TMV's, expansion vessels etc etc etc.	Y	
Is consideration given to system design, flow, temperature and the opportunity for bacteria to grow and develop in the water systems?	Y	
Does the risk assessment identify any particular areas of spray and aerosol creation?	Y	Showers and spray outlets are identified in section 3.5 – Asset Register
Are areas of low use and low flow identified in the risk assessment?	Y	Areas of low use are identified in section 3.5 of the RA document.
Are dead legs specifically detailed in the risk assessment?	Y	Action 20 in Section 2 lists a 14 dead legs that require to be addressed.
Is there a set of remedial actions clearly identified in the risk assessment?	Y	Remedial actions are listed and detailed in section 2.0 of the RA document.

Is there a clearly explained risk scoring system in the risk assessment?	Y	The risk scoring system is explained in section 4.1 of the RA document.		
At what level of risk is the building/property/system assessed to be at?	N/A	The level of risk is detailed by each on site water system and they have all been rated as either High or Medium. The building overall risk rating is High.		
Recommendat	ions on th	e Risk Assessment Section		
<ol> <li>It is recommended that a new risk assessment is completed shortly after the hospital is occupied and operational.</li> <li>It is recommended that NHS Lothian are reminded of their obligation and responsibilities with regard to the dental water systems.</li> <li>It is recommended that the competency levels of the currently involved staff is checked for suitability</li> </ol>				
Schematic Drawings	Y/N	Comments	Risk Level	
Are schematic drawings available in the written scheme, or in some other place in the property?	Y	Line drawings have been completed by Bouygues and as fitted drawings are also available for the hospital.		
Do the schematic drawings show all the components of the water systems?	Y	The components of the water systems are shown in the as fitted drawings.		
Are the water system return legs shown on the schematic drawings?	Y	The return legs are shown on the as fitted drawings.		
Are secondary and tertiary loops shown on the schematic drawings?	Y	These are shown on the as fitted drawings.		
Have any amendments been made to the schematic drawings?	N	No errors have been identified and no changes have been made to the water systems which would require an amendment to be made to the drawings.		
If amendments have been made are they signed and dated?	N/A			
Is there any indication that drawings are regularly inspected and updated if required?	N	It is too early on the process to have had an annual review of the drawings. It was stated at the time of this audit that the		

Recommendatio	ns on the	process going forward would involve drawings being amended as changes are being made.It is recommended that drawings are reviewed and updated on an annual basis.Schematic Drawings Section	
4. It is recommended that drawings are reviewed and up	dated on ar	n annual basis.	
Management and Competency	Y/N	Comments	Risk Level
Is there a duty holder and responsible person nominated in writing?	U/K	Bouygues expect that NHS Lothian would hold the role of duty holder.	
Is there a clearly defined management structure which includes the relevant on site personnel and also all service providers and contractors?	Υ	There is a clearly defined management structure in section C of the Bouygues written scheme.	
Is there a clearly defined line of communication in the written scheme?	Y	There is a clearly defined Bouygues management structure with lines of communication in section C of the Bouygues written scheme. There are forms associated with the NHS Board roles which have yet to have the information supplied to allow for completion and entry into the written scheme.	
		It is recommended that NHS Lothian are requested to provide the required NHS Lothian staff details to enable the management structure and lines of communications section to be completed.	
Are the responsibilities of all involved parties clearly defined in the written scheme?	Y	The roles and responsibilities of what Bouygues undertake in their contract can be found in Section B of the written scheme. It was stated at the time of this audit that Bouygues have	

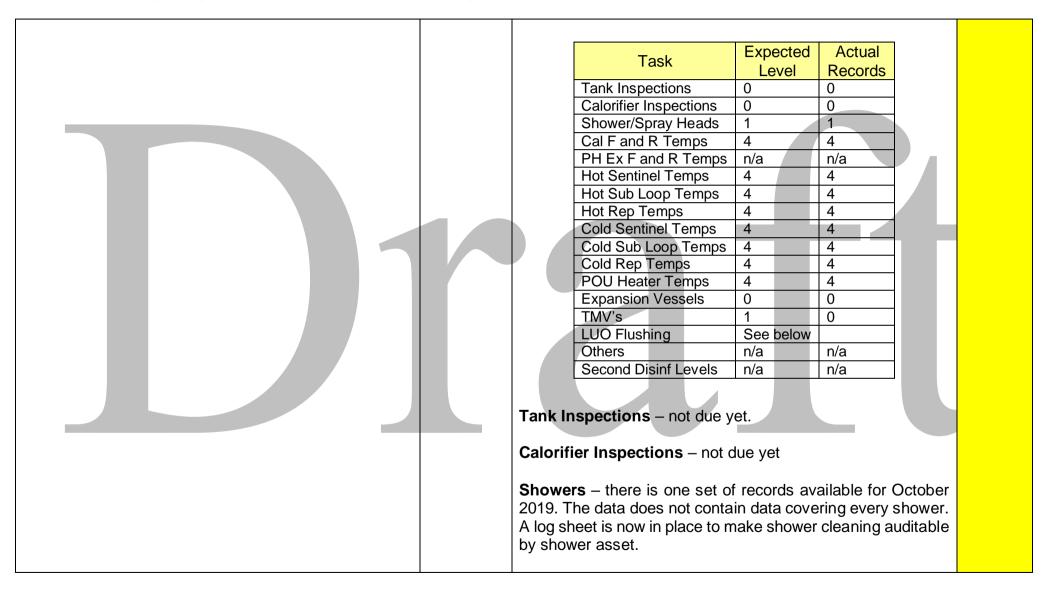
		responsibility for hard FM service provision of potable water only.	
		The individual roles and responsibilities, and competencies, of Bouygues personnel are clearly defined in Section B of the written scheme.	
		Bouygues have a responsible person appointed for the company. For the site Bouygues have a financially authoritative manager appointed.	
Does the organisation have an up to date and current policy document?	Y	This is covered by section 1.1 of the written scheme which is entitled "Strategy for the correct and safe operation of the Water Systems". This information is held in the written scheme.	
Does the organisation have an up to date and current procedures document?	Partial	Bouygues have a draft water safety policy document which may be altered as reviewed It is recommended that if the final water safety policy document has any changes made then the new document should be added to the written scheme.	
Do all staff have relevant up to date training in place?	Partial	All staff with the exception of James Taylor have completed formal external training. JT's training is booked to be completed on the 1 <sup>st</sup> December 2019.	
Are copies of the involved on site personnel training records available in the written scheme?	Y	All training records are held in the written scheme. The training was completed in late 2018 and early 2019 and was undertaken at Eastwood Park. The trained Bouygues staff have formal internal letters of appointment.	
Is there evidence available in the written scheme of the competency of service provider and contractor staff?	Y	All contractors go through an assessment process prior to being engaged by Bouygues.	

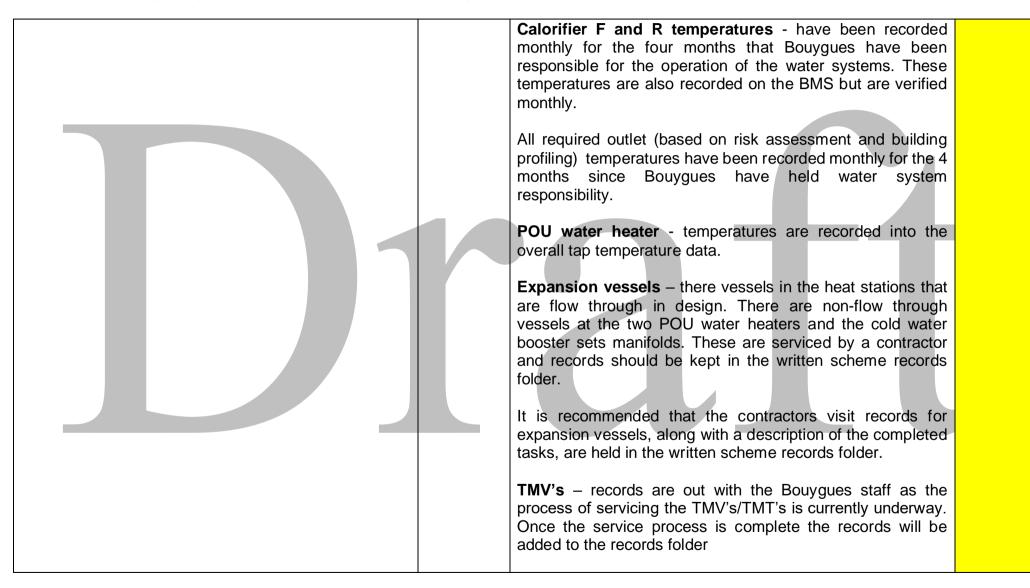
Authorising Engineer Water Systems Management and Compliance Audit NHS Water Systems

		All RAMS are fully reviewed.	
		All contractors, where applicable, are LCA registered. Laboratories that are used are UKAS accredited.	
Are service providers and contractors LCA accredited or do they have other means of proving competence?	Y	See above.	
Is there a formal contractor management process in place?	Y	All Bouygues contractors are processed through Avetta scheme which is an enhanced safe systems of procurement verification check. This includes staff competency checks, company affiliations, enforcement notices etc.	
Is there evidence available in the written scheme of review meetings with service providers and contractors?	X	Bouygues have a contractor management process between procurement and contractors. These will have been ongoing and are completed by procurement staff alongside operational staff.	
Is there any evidence in the written scheme of management reviews of the data and results produced by the monitoring and control processes and procedures?	Y	Previous month results for the building are sent to the RP by the Zetasafe system. These are checked on arrival in the RP's in box. Any "red" flags identified in the Zeta data would be addressed at that time.	
Is there evidence that authorised person competency checks have been completed?	Y	Details of AP competency checks can be found in section M of the written scheme. The NHSL AE has been asked to completed AP checks on Bouygues staff and these are booked in to be completed by the end of December.	
Recommendations o	n the Man	agement and Competency Section	
and lines of communications section to be completed	l.	e required NHS Lothian staff details to enable the management st has any changes made then the new document should be added	

written scheme.

Written Scheme, Monitoring and Records	Y/N	Comments	Risk Level
Is there a written scheme in place?	Y	The written scheme that is in place is bespoke to the hospital site and the current state of operation in the hospital.	
Does the written scheme reflect the findings of the risk assessment?	Y	All tasks are based on the RA asset register and the findings of the risk assessment as well as the management experience of gained in the operation of the hospital water systems. The requirements of the O and M manuals and manufacturers guidance.	
Is there a logbook, either paper or electronic, defining all the required tasks for the risk reduction processes and procedures?	Υ	The current logbook is a combination of electronic and hard copy.	
Are all tasks in the records signed and dated?	Y		
What is the level of completion of the programmed tasks in the written scheme over the past twelve months?	N/A	Bouygues have been responsible for the delivery of the risk reduction processes and procedures since the beginning of July 2019. Consequently, at the time of this audit, there are only records available for 4.5 month's work. This short time span is reflected in the table above in the "Expected Level" column.	





		It is recommended that the records for TMV/TMT servicing are added to the records folder once the servicing process is completed.	
		Flushing of little used outlets – All outlets in the hospital are flushed minimum twice per week with augmented care area outlets being flushed daily. Records are available and held in the Bouygues offices.	
Are there any TMV's on the site and are they serviced in accordance with manufacturers recommendations?	Y	TMV's and TMT's are on site and are serviced in accordance with manufacturer's recommendations.	
Are the remedials actions from the previous risk assessment completed and are they signed and dated?	N/A	No remedials to address as no previous risk assessment.	
Does the written scheme contain any incident plans?	Y	Incident plans for a number of scenarios are included in Part G Section 7 of the Written Scheme.	
Is there a copy of the risk assessment in the written scheme?	Υ		
Is there a copy of the training records in the written scheme?	Υ		
Are non-conformances addressed in a timely manner?	Y	Non conformances are added to a water risk action plan and dynamically updated. At the time of this audit the most recent update was dated November 19 <sup>th</sup> .	
Does the written scheme contain an "audit trail" for out of specification situations that allows for remedial actions to be tracked through to completion?	Y	This is included in the water risk action plan.	
Are Legionella samples taken as part of the written scheme tasks?	Y	Legionella samples are taken from 423 locations/outlets on a 6 monthly basis. This number of samples are taken as a consequence of the hospital not being in a "use" situation. 219 of these samples are showers.	

Is there a specific escalation procedure for positive Legionella results?	Y	The escalation procedure can be found in Part G Section 7 of the Written Scheme. 6.12 of the written scheme document.	
Who takes Legionella samples and are they being taken in accordance with BS7952:2008?	Y	Samples will be taken by a contractor which is currently H and V. Westfield Caledonian is also used from time to time.	
Are Pseudomonas samples taken as part of the written scheme?	Y	Samples are being taken under a variation order - LVC – 092.	
Are the Pseudomonas samples taken in line with the guidance given in the HSF, HPS CEL of July 2017?	Y		
Are there copies of method statements for any procedures that are completed in house or by external providers?	Y	Method statements for the required risk reduction processes and procedures are currently kept electronically. They are checked by the Bouygues AP and annually checked by the Bouygues AE.	
		eme, Monitoring and Records Section	
<ol> <li>It is recommended that the contractors visit records f written scheme records folder.</li> </ol>	or expansior	eme, Monitoring and Records Section vessels, along with a description of the completed tasks, are he ded to the records folder once the servicing process is complete	d.
<ol> <li>It is recommended that the contractors visit records f written scheme records folder.</li> </ol>	or expansior	vessels, along with a description of the completed tasks, are he	
<ol> <li>It is recommended that the contractors visit records f written scheme records folder.</li> <li>It is recommended that the records for TMV/TMT ser</li> </ol>	or expansion vicing are ad Y/N	e vessels, along with a description of the completed tasks, are he	d. <b>Risk</b>
<ul> <li>7. It is recommended that the contractors visit records for written scheme records folder.</li> <li>8. It is recommended that the records for TMV/TMT ser</li> <li>Correct and Safe Operation</li> <li>Is there a statement of "correct and safe operation" detailing targets for temperatures and other control</li> </ul>	or expansior vicing are ad <u>Y/N</u>	vessels, along with a description of the completed tasks, are he ded to the records folder once the servicing process is complete <b>Comments</b>	d. <b>Risk</b>

Is there any form of water treatment being applied to the water systems?	Y	The mains water coming into the site is filtered.	
Are little used outlets listed and are they then flushed?	Y	Little used outlets are listed and they are being flushed on a twice weekly basis.	
Is the flushing of little used outlets recorded in the records system?	Y		
Is there any seasonal difference in the use profile of the water systems?	Ν		
Are any pieces of duty standby equipment that require to be switched on a weekly basis, and do the records show that they are being switched?	N		
Recommenda	ations on (	Correct and Safe Operation	
None required			
			Diala
On Going Water Treatment	Y/N	Comments	Risk Level
On Going Water Treatment Is there any form of water treatment in use on site?	Y/N Y	Comments Mains water is filtered prior to being used in the hospital. Ultrafiltration is used and this filters the water down to 0.4 microns.	
		Mains water is filtered prior to being used in the hospital. Ultrafiltration is used and this filters the water down to 0.4	
Is there any form of water treatment in use on site? Is there any form of secondary disinfection in place on	Y	Mains water is filtered prior to being used in the hospital. Ultrafiltration is used and this filters the water down to 0.4 microns.	
Is there any form of water treatment in use on site? Is there any form of secondary disinfection in place on site? Are the required checks for secondary disinfection	Y N	Mains water is filtered prior to being used in the hospital. Ultrafiltration is used and this filters the water down to 0.4 microns.	
Is there any form of water treatment in use on site? Is there any form of secondary disinfection in place on site? Are the required checks for secondary disinfection levels being completed and recorded on site? Are the required levels of disinfection being achieved in	Y N N/A	Mains water is filtered prior to being used in the hospital. Ultrafiltration is used and this filters the water down to 0.4 microns.	

Are service records for the base exchange softeners available in the written scheme?	N/A		
Is filtration in use in any of the water systems?	Y		
Are service records for the filtration equipment available in the written scheme?	Y	The filtration equipment is serviced by Veolia under a service agreement. The records are available but were not in the water records folder A reference to the existence and location of the service records for the filter system should be made in the written scheme. Or move the records	
Recommend	lations on	Ongoing Water Treatment	
9. A reference to the existence and location of the servi	ce records fo	or the filter system should be made in the written scheme.	
Cleaning and Disinfection Procedures	Y/N	Comments	Risk Level
		Comments Showers and associated hoses and spray taps are cleaned and disinfected every three months.	
Cleaning and Disinfection Procedures Are system cleaning and disinfection procedures in use	Y/N	Showers and associated hoses and spray taps are cleaned	
Cleaning and Disinfection Procedures Are system cleaning and disinfection procedures in use on site? Are the cleaning and disinfection procedures completed	<b>Y/N</b> Y	Showers and associated hoses and spray taps are cleaned and disinfected every three months. Showers and spray taps are cleaned and disinfected by in	
Cleaning and Disinfection Procedures         Are system cleaning and disinfection procedures in use on site?         Are the cleaning and disinfection procedures completed by in house staff?         Are the cleaning and disinfection procedures completed	<b>Y/N</b> Y Y	Showers and associated hoses and spray taps are cleaned and disinfected every three months. Showers and spray taps are cleaned and disinfected by in	

Are these procedures completed in response to sampling/inspection results.	Partial	Showers and spray taps are cleaned on a PPM or reactive basis if required. Cold water storage tanks are cleaned on the basis of inspection and sampling.
Are these procedures completed as a matter of procedure?	Partial	Cold Water Storage Tanks are cleaned by inspection or by findings of microbiological sampling.
Is there a suitable method statement available in the written scheme covering the cleaning and disinfection procedures?	Y	
If chlorine is used, is the impact of pH considered in the disinfection process.	N/A	Showers and spray taps are cleaned and disinfected using a proprietary product which is Showerhead Plus. Cold water storage tanks and pipework would be disinfected using a non-chlorine based approach as recommended in the SHTM 04-01 documents.
Are there completion certificates in the written scheme covering any disinfection procedures that have been undertaken?	Y	Completion certificates are said to be available in Zutec for disinfections completed by H and V Commissioning in October 2018. Bouygues are searching for copies of these certificates to enable then to be added to the water records logbook. All cleans that are completed on the showers and spray taps are logged and recorded in the PPM system.
Are localised outlet disinfections in use on site?	Y	Localised disinfections are in use as and when required and are completed by contractors. Completion certificates are available for any cleans and disinfections that have been completed.
Is there a suitable method statement available in the written scheme covering the localised cleaning and disinfection procedures?	Y	Contactor method statements for localised outlet cleans and disinfections are available in the Bouygues contractors file.

		It is recommended that if contractors are to be used on a long term basis that the method statements are included in the control scheme SOP's. Bouygues have a draft method statement for outlet remediation in response to Pa issues and are awaiting a response from NHS Lothian on this draft statement.	
Recommendations	on Clean	ing and Disinfection Procedures	
10. It is recommended that if contractors are to be used o SOP's.	n a long teri	m basis that the method statements are included in the control s	
New Build and Refurb Capital Projects	Y/N	Comments	Risk Level
Have any new build or refurbishment projects, which impacted on the water systems, been completed in the past 12 months	N/A		
Were the implications of this work risk assessed?	N/A		
Was the assessment added to the log book and water system records?	N/A		
Was the written scheme amended to account for the implications of the new build/amended water systems?	N/A		
Were the details of the new systems discussed with the Estates Department and any other involved personnel?	N/A		
Are minutes of discussions regarding the new water systems recorded and entered into the logbook?	N/A		
Were systems, if required, cleaned and disinfected?	N/A		
Are records of all cleans and disinfections available in the record systems?	N/A		

Recommendations on New Build and Refurbishment Capital Projects				
None				
Water Safety Group	Y/N	Comments	Risk Level	
Is there a Water Safety Group in place?	Y	NHS Lothian has an overarching water safety group. The RHCYP has a specific water action group which is in place to ensure that any water related issues are promptly and correctly addressed.		
Does the WSG have all the required groups represented?	Y	The group contains the main contractor and the contractor technical adviser, the SVP, NHS Lothian Estates and their AE, Infection Control and soft services.		
Are WSG meetings held on a quarterly basis?	Y	NHS Lothian hold quarterly water safety group meetings. The water action group meets on a fortnightly basis.		
Are minutes and actions produced and followed through with the WSG?	Y			
Recommen	dations or	n the Water Safety Group		
None required.				



### Alterations of the Oral Microbiome and Cumulative Carbapenem Exposure Are Associated With *Stenotrophomonas maltophilia* Infection in Patients With Acute Myeloid Leukemia Receiving Chemotherapy

Samuel L. Aitken,<sup>1,2,®</sup> Pranoti V. Sahasrabhojane,<sup>3</sup> Dimitrios P. Kontoyiannis,<sup>2,3</sup> Tor C. Savidge,<sup>4,5</sup> Cesar A. Arias,<sup>2,6</sup> Nadim J. Ajami,<sup>2,7</sup> Samuel A. Shelburne,<sup>2,3,7</sup> and Jessica R. Galloway-Peña<sup>2,3,7</sup>

<sup>1</sup>Division of Pharmacy, University of Texas MD Anderson Cancer Center, Houston, Texas, USA, <sup>2</sup>Division of Infectious Diseases and Center for Antimicrobial Resistance and Microbial Genomics, UTHealth McGovern Medical School, Houston, Texas, USA, <sup>3</sup>Department of Infectious Diseases, Infection Control, and Employee Health, University of Texas MD Anderson Cancer Center, Houston, Texas, USA, <sup>4</sup>Department of Pathology and Immunology, Baylor College of Medicine, Houston, Texas, USA, <sup>5</sup>Texas Children's Microbiome Center, Texas Children's Hospital, Houston, Texas, USA, <sup>6</sup>Department of Pathology and Immunology, Baylor College of Medicine, Houston, Texas, USA, <sup>5</sup>Texas Children's Microbiome Center, Texas Children's Hospital, Houston, Texas, USA, <sup>6</sup>Department of Genomic Medicine, University of Texas MD Anderson Cancer Center, Houston, Texas, USA,

#### (See the Editorial Commentary by Fredricks on pages 1514-6.)

**Background.** Stenotrophomonas maltophilia is increasingly common in patients with acute myeloid leukemia (AML). Little is known about factors that drive *S. maltophilia* infection. We evaluated the microbiome and cumulative antibiotic use as predictors of *S. maltophilia* infection in AML patients receiving remission induction chemotherapy (RIC).

*Methods.* Subanalysis of a prospective, observational cohort of patients with AML receiving RIC between September 2013 and August 2015 was performed. Fecal and oral microbiome samples collected from initiation of RIC until neutrophil recovery were assessed for the relative abundance of *Stenotrophomonas* via 16S rRNA gene quantitation. The primary outcome, microbiologically proven *S. maltophilia* infection, was analyzed using a time-varying Cox proportional hazards model.

**Results.** Of 90 included patients, 8 (9%) developed *S. maltophilia* infection (pneumonia, n = 6; skin–soft tissue, n = 2); 4/8 (50%) patients were bacteremic; and 7/8 (88%) patients with *S. maltophilia* infection had detectable levels of *Stenotrophomonas* vs 22/82 (27%) without infection (P < .01). An oral *Stenotrophomonas* relative abundance of 36% predicted infection (sensitivity, 96%; specificity, 93%). No association of *S. maltophilia* infection with fecal relative abundance was found. Cumulative meropenem exposure was associated with increased infection risk (hazard ratio, 1.17; 95% confidence interval, 1.01–1.35; P = .03).

**Conclusions.** Here, we identify the oral microbiome as a potential source for *S. maltophilia* infection and highlight cumulative carbapenem use as a risk factor for *S. maltophilia* in leukemia patients. These data suggest that real-time monitoring of the oral cavity might identify patients at risk for *S. maltophilia* infection.

Keywords. pneumonia; bacteremia; risk factors; colonization; meropenem.

Stenotrophomonas maltophilia is an intrinsically multidrugresistant (MDR) gram-negative bacteria and the most frequently identified carbapenem-resistant gram-negative species in hospitalized patients with pneumonia [1, 2]. Stenotrophomonas maltophilia is increasingly identified in patients with cancer and is associated with high morbidity and mortality in this highly vulnerable population [2, 3]. Patients with acute myeloid leukemia (AML) are at particularly high risk for poor outcomes, with overall mortality in excess of 20% in patients with primary

Clinical Infectious Diseases® 2021;72(9):1507–13

bacteremia and 60% for patients with pneumonia [4–7]. In its most devastating form, *S. maltophilia* infection manifests as hemorrhagic pneumonia with a case fatality rate approaching 100% [4]. As *S. maltophilia* is intrinsically resistant to the majority of antibiotics used to empirically treat febrile neutropenia in patients with AML and delayed appropriate antibiotic treatment is associated with increased mortality, identification of patients at risk for *S. maltophilia* infection is of paramount importance [8].

Due to intrinsic carbapenem resistance, prior carbapenem use appears to be the predominant risk factor for infection with *S. maltophilia*, and prior studies have identified carbapenem use, among other common factors such as prolonged hospital stay and intensive care unit admission, as a key risk factor [9–12]. Empiric carbapenem use is increasingly common in patients with AML due to rising rates of infections caused by extended-spectrum  $\beta$ -lactamase-producing organisms; therefore, an in-depth understanding of the risk-benefit profile of widespread carbapenem use is of high importance [13, 14].

Received 30 October 2019; editorial decision 5 May 2020; accepted 11 June 2020; published online June 16, 2020.

Correspondence: J. R. Galloway-Peña, Department of Genomic Medicine, The University of Texas MD Anderson Cancer Center, 1515 Holcombe Blvd, Unit 1954, Houston, Texas (jrgalloway@mdanderson.org).

<sup>©</sup> The Author(s) 2020. Published by Oxford University Press for the Infectious Diseases Society of America. All rights reserved. For permissions, e-mail: journals.permissions@oup.com. DOI: 10.1093/cid/ciaa778

However, prior studies have largely evaluated carbapenem exposure as a dichotomous variable or in arbitrarily categorized numbers of days, preventing an understanding of how cumulative carbapenem exposure modifies risk for subsequent *S. maltophilia* infection [2].

Colonization with MDR organisms, detected through either traditional means or microbiome analysis, is clearly linked to subsequent infection in patients with hematologic malignancies [15–17]. Indeed, a recent study performed in hematopoietic stem cell transplant recipients identified oral colonization with *S. maltophilia* as being significantly associated with *S. maltophilia* infection [18]. That study did not, however, integrate antimicrobial exposure or allow for a quantitative assessment of *S. maltophilia* burden in relation to infection. Thus, we sought to characterize cumulative antibiotic exposure and the relative abundance of *S. maltophilia* in patients with AML in order to identify patients at increased risk for *S. maltophilia* infections.

#### **METHODS**

#### Patient Enrollment and Antibiotic Use Assessment

This was a *S. maltophilia*-focused substudy of a previously published microbiome-based prospective, observational, cohort study of patients with a new diagnosis of AML who were receiving remission-induction chemotherapy (RIC) between September 2013 and August 2015. Details on the cohort have been previously published [19, 20]. Seven patients from the original cohort were excluded from this analysis due to incomplete clinical and antimicrobial exposure data. Fecal and buccal microbiome samples were collected from each patient prior to the start of RIC and every 96 hours thereafter until the resolution of neutropenia (absolute neutrophil count >500 cells/ mm<sup>3</sup>). The University of Texas MD Anderson Cancer Center Institutional Review Board approved this study. All patients provided written, informed consent prior to enrollment in accordance with the Declaration of Helsinki.

#### Sample Collection and Microbiome Analysis

Buccal samples were collected using the Catch-All Sample Collection Swab (Epicentre) and placed in sterile 2-mL cryovials. Inpatient stool samples were collected in a stool hat and aliquoted into sterile 2-mL cryovials, while outpatient stool samples were collected using the BBL CultureSwab (BD Diagnostics). All samples were stored at  $-80^{\circ}$  C until processing. Samples were submitted to the Alkek Center for Metagenomics and Microbiome Research (CMMR) of Baylor College of Medicine in 3 batches for microbial DNA extraction and microbiome profiling gene via 16S rRNA V4 gene sequencing. The CMMR is a Clinical Laboratory Improvement Amendments (CLIA)-certified laboratory that specializes in microbiome profiling and uses a set of controls to evaluate the performance of each step and determine potential contamination events throughout sample

A51115531

processing, library preparation, and data generation. Extraction controls are reagent controls (negative) and previously characterized samples (positive) that were subjected to the same procedures as the study samples. The 16S library preparation controls include a nontemplate control (negative) and purified DNA extracted from a pure culture of Francisella tularensis (positive). For the positive controls, 99% of reads are required to map to the F. tularensis reference strain in order to pass quality control. Both extraction and library preparation controls are carried through sequencing. For this study, data from extraction controls were not available due to the historical nature of the data. Additional information on control methods used for the microbiome analysis are presented in the Supplementary Methods. Bacterial DNA was extracted using the MO BIO PowerSoil DNA Isolation Kit (MO BIO Laboratories), and 16Sv4 rRNA gene libraries were generated following a protocol adapted from the Earth Microbiome Project [21, 22]. Briefly, the 16S rRNA V4 gene region was amplified and sequenced using Illumina MiSeq using a  $2 \times 250$  paired-end protocol. The 16S rRNA V4 gene sequences were assigned to operational taxonomic units (OTUs) using the UPARSE pipeline, and taxonomic classifications were derived from alignments to the SILVA SSURef\_NR99\_119 database.

#### Antibiotic Use Assessment, Definitions, and Statistical Analyses

All antibiotic use for each patient from the time of enrollment to completion of follow-up was extracted from a database maintained by the pharmacy informatics. An antimicrobial therapy day was defined as any single calendar day on which an antibiotic was administered, regardless of dose or dosing frequency. Antibiotic use was assessed at the individual drug level and considered as both any use (ie, 1 or more days of therapy) and cumulative use (ie, total days of therapy during the study period). Only antibiotics commonly used empirically to treat or prevent neutropenic fever were assessed to minimize selection bias. Prophylactic agents were ciprofloxacin, levofloxacin, and cefpodoxime; treatment antibiotics were cefepime, piperacillintazobactam, meropenem, linezolid, and vancomycin. As ceftazidime and tigecycline are rarely used during RIC and generally in patients at high risk for S. maltophilia infection at our institution, these agents were specifically not assessed. Patients were evaluated for infection and antibiotic use from start of chemotherapy until neutrophil recovery. Cultures were obtained following routine clinical practice. Stenotrophomonas maltophilia bacteremia was defined as growth of S. maltophilia from blood regardless of clinical symptoms or concomitant growth from any site other than blood. Stenotrophomonas maltophilia pneumonia was defined as growth of S. maltophilia from sputum or bronchoalveolar lavage (BAL) in the presence of new or changing pulmonary infiltrates and respiratory symptoms or a positive blood culture if no respiratory cultures were obtained. Stenotrophomonas maltophilia skin-soft tissue

infection (SSTI) was defined as skin erythema or swelling with growth of *S. maltophilia* from skin biopsy. Both *S. maltophilia* pneumonia and SSTI could exist independently of or concurrently with bacteremia.

The primary outcome was microbiologically documented infection with S. maltophilia (inclusive of bacteremia, pneumonia, or SSTI). Bivariate comparisons of patients with and without S. maltophilia infection were made using the Fisher exact test and the Mann-Whitney U test. A potential "best" predictive value of S. maltophilia relative abundance was determined by visually inspecting the receiver operator characteristics of each potential cut-point in order to maximize both sensitivity and specificity. In order to account for the time-varying nature of both S. maltophilia relative abundance and antibiotic use, a time-varying Cox proportional hazards model was used, with patients censored at neutrophil recovery or death. The timevarying Cox proportional hazards model accounts for immortal time bias and allows for an assessment of risk associated with each additional day of antibiotic exposure [23]. The last measured value was carried forward for patients with missing microbiome samples. A multivariable Cox proportional hazards model was constructed by starting with a full model and iteratively removing the least relevant predictors until an increase in the Akaike information criterion was observed. However, due to the limited sample size and likely overfitting, this model should be viewed as purely hypothesis-generating. All statistical analyses were performed using Stata v13.1 (StataCorp LP, College Station, TX).

#### RESULTS

#### **Infection Characteristics**

A total of 90 patients were included, 8 (8.9%) of whom developed microbiologically confirmed infection caused by *S. maltophilia*. Six patients had *S. maltophilia* pneumonia, 1 had ecthyma gangrenosum, and 1 had a complicated SSTI of the right lower extremity. One of 6 patients with pneumonia was diagnosed solely on the basis of a positive blood culture and development of nodular pulmonary infiltrates consistent with *S. maltophilia* infection. The remainder were diagnosed on the basis of bronchoalveolar lavage and/or respiratory cultures in

#### Page 34

addition to new or changing pulmonary infiltrates. Bacteremia was documented in 4 of 8 (50%) patients, including in 3 of 6 (50%) patients with pneumonia and in the patient with right lower extremity SSTI. Primary infection developed a median of 17.5 days (range, 11–28) following the start of induction chemotherapy. Clinical characteristics of patients with and without *S. maltophilia* infection are presented in Table 1, with no characteristics being significantly associated with *S. maltophilia* infection. The antimicrobial susceptibility profiles of the 8 diagnostic cultures are presented in Supplementary Table 1.

### Stenotrophomonas maltophilia Microbiome Description and Relative Abundance

DNA extraction, 16Sv4 libraries, and 16Sv4 sequences were successfully generated for all the samples included in this analysis (438 stool and 556 oral). The 16S library polymerase chain reaction (PCR) nontemplate control yielded 75 sequencing reads; more than 75% mapped to *Methylobacterium*, a commonly identified laboratory and reagent contaminant [24], and none mapped to *Stenotrophomonas* or closely related genera (Supplementary Table 2).

Taxonomic classification and relative abundances of OTUs that mapped to the genus Stenotrophomonas were derived from the taxonomic classification table generated by the CMMR 16S pipeline. Stenotrophomonas spp. relative abundance was calculated as the percent of OTUs assigned to the genus Stenotrophomonas relative to all other assigned OTUs. Although there are at least 12 known species in the genus Stenotrophomonas, only 2 named species are included in the SILVA database (Stenotrophomonas maltophilia and Stenotrophomonas pictorum). A BLASTn [25] analysis of the OTU sequences (2) mapping to the genus Stenotrophomonas in our data revealed 100% identity to S. maltophilia but also to Stenotrophomonas pavanii. Although v4 amplicons mapped to both S. maltophilia and another Stenotrophomonas species, S. maltophilia is the only member of this genera routinely identified in humans [26, 27].

*Stenotrophomonas* was detected in the oral or stool microbiome of only 3 (3.3%) and in none of the patients at baseline, respectively. *Stenotrophomonas* was detected at any point during the risk period (ie, the period between chemotherapy

Iable I. Baseline Characteristics of Patients with and without Stenotrophomonas maitophilia infect	Table 1.	Baseline Characteristics of Patients With and Without Stenotrophomonas maltophilia Infect	on
--	----------	---	----

Characteristic	No Infection $(n = 82)$	Infection $(n = 8)$	PValue
Age, <sup>a</sup> y	58 (46–68)	59 (56–72)	.27
Male sex	42 (51)	5 (63)	.72
High-intensity chemotherapy	55 (67)	5 (63)	1.00
Complex cytogenetics	10 (13)	3 (43)	.15
Eastern Cooperative Oncology Group (ECOG) performance status <sup>a</sup>	1 (1–1)	1 (1–2)	.20
Duration of neutropenia (days)ª	26 (21–34)	29 (24–45)	.21

All reported as n (%) and tested with the Fisher exact test unless otherwise specified

start and neutrophil recovery) in the oral and stool microbiome of 29 (32%) and 8 (9%) patients, respectively. Seven of 8 (88%) patients with S. maltophilia infection had oral microbiome detection of Stenotrophomonas prior to onset of infection in contrast to 22/82 (27%) without S. maltophilia infection (P < .01). The sole patient in whom Stenotrophomonas was not detected in the oral microbiome prior to infection had the last sample obtained 2 days prior to a diagnostic BAL; the oral sample obtained 2 days later had a relative abundance (ie, percentage of reads mapping to Stenotrophomonas relative to total number of reads) of 43%. The relative abundance of Stenotrophomonas in the oral microbiome varied over the duration of the risk period (Table 2) and tended to decrease after an initial peak (Figure 1). The median (interquartile range) maximum relative oral abundance of Stenotrophomonas was higher in patients with S. maltophilia infection (57% [1%-95%] compared with those with no infection (0% [0%-0%]; Figure 2). A peak oral Stenotrophomonas relative abundance of >36% appeared to best predict infection (sensitivity, 63%; specificity, 96%; likelihood ratio +, 17.08; likelihood ratio -, 0.39; positive predictive value, 61%; negative predictive value, 96%; 93% correctly classified). In contrast, any detection of Stenotrophomonas in the oral microbiome was a relatively poor predictor of S. maltophilia infection (sensitivity, 88%; specificity, 74%; likelihood ratio +, 3.26; likelihood ratio -, 0.17; positive predictive value, 24%; negative predictive value, 98%). Overall, 7/29 (24%) patients with any detection in the oral microbiome developed S. maltophilia infection. In contrast to the oral microbiome, there was no clear association between stool Stenotrophomonas detection and S. maltophilia infection, with 2/8 (25%) patients with infection having stool detection vs 6/82 (7%) without infection (P = .15). Further, the appearance of *Stenotrophomonas* in the fecal microbiome always followed its appearance in the oral microbiome (data not shown). When the time-varying relative abundance of Stenotrophomonas was considered, an increasing

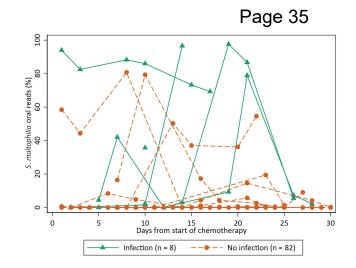
 Table 2. Oral and Fecal Microbiome Stenotrophomonas Relative

 Abundance in Patients With and Without Stenotrophomonas maltophilia

 Infection

Sample Site	No Infection (n = 82)	Infection (n = 8)	<i>P</i> Value
Oral			
Peak abundance (%)	0.00 (0.00-80.76)	57.27 (0.00–97.56)	<.01
Last abundance (%)	0.00 (0.00-54.56)	3.84 (0.00–96.57)	<.01
Baseline detection (n, %)	2 (2)	1 (13)	.25
Any detection (n, %)	22 (27)	7 (88)	<.01
Stool			
Peak abundance (%)	0.00 (0.00–9.85)	0.00 (0.00–92.14)	.07
Last abundance (%)	0.00 (0.00–9.85)	0.00 (0.00-0.63)	.24
Baseline detection (n, %)	0 (0)	0 (0)	1.00
Any detection (n, %)	6 (7)	2 (25)	.15

Values reported as median (range) unless otherwise reported. *P* values calculated using the Wilcoxon rank sum test (percent relative abundance) and Fisher exact test (percent detectable).



**Figure 1.** Relative abundance of *Stenotrophomonas* in patients with and without *Stenotrophomonas maltophilia* infection. All lines originate at the time of first sampling and end at the end of the risk period (time of *S. maltophilia* infection or neutrophil recovery). The *x*-axis is right-truncated at 30 days for clarity; 71/90 (88%) remained at 0% detectable throughout the risk period.

relative abundance of oral *Stenotrophomonas* colonization significantly correlated with *S. maltophilia* infection (Table 3).

#### **Antimicrobial Use Assessment**

The use of antibiotics generally as initial treatment for or prophylaxis against neutropenic fever is presented in Table 4. When treated as a time-varying covariate, each additional day of meropenem use increased the hazard of *S. maltophilia* infection by 17% (hazard ratio [HR], 1.17; 95% confidence interval [CI], 1.01–1.35; P = .03). No other  $\beta$ -lactam antibiotic was significantly correlated with *S. maltophilia* infection (Table 3). Linezolid use also correlated with *S. maltophilia* infection (HR, 1.12; 95% CI, .99–1.27; P = .06), although this may be because linezolid receipt is highly correlated with meropenem. Indeed,

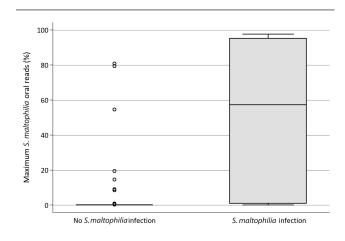


Figure 2. Maximum *Stenotrophomonas* oral abundance in patients with and without *Stenotrophomonas maltophilia* infection. Horizontal bars indicate median and upper and lower quartiles. Solid dots indicate outlier values, as applicable.

Table 3. Time-varying Antibiotic Exposure and Oral Microbiome Relative Abundance as Predictors of *Stenotrophomonas maltophilia* Infection

Antibiotic	Hazard Ratio	95% Confidence Interval	<i>P</i> Value
Cefepimeª	1.02	.84–1.23	.87
Cefpodoximeª	1.00	.75–1.34	1.00
Ciprofloxacin <sup>a</sup>	0.75	.51–1.10	.15
Levofloxacin <sup>a</sup>	0.83	.66–1.04	.10
Linezolid <sup>a</sup>	1.12	.99–1.27	.06
Meropenem <sup>a</sup>	1.17	1.01–1.35	.03
Piperacillin-tazobactamª	1.07	.86–1.33	.55
Stenotrophomonas maltophilia oral abundance <sup>b</sup>	1.04	1.03–1.05	<.01

<sup>a</sup>Hazard ratios refer to hazard associated with each additional day of antibiotic exposure. <sup>b</sup>Hazard ratios refer to hazard associated with 1% increase in *S. maltophilia* relative abundance.

in the exploratory multivariable model, meropenem and the relative oral abundance of *S. maltophilia* appear to be associated with increased risk of *S. maltophilia* infection, while ciprofloxacin and levofloxacin are associated with decreased risk (Table 5).

#### DISCUSSION

In this prospective, observational study, we identified the oral microbiome as a potential predictor of *S. maltophilia* infection in patients with AML who are receiving chemotherapy. Patients

 Table 4.
 Antibiotic Use in Patients With and Without Stenotrophomonas maltophilia Infection

Antibiotic	No Infection (n = 82)	Infection (n = 8)
Cefepime		
Median (IQR) number of days	3 (0–7)	2 (0–5)
Any use (n, %)	49 (60)	4 (50)
Cefpodoxime		
Median (IQR) number of days	0 (0–2)	0 (0–0)
Any use (n, %)	25 (30)	1 (13)
Ciprofloxacin		
Median (IQR) number of days	0 (0-2)	0 (0–2)
Any use (n, %)	24 (30)	3 (30)
Levofloxacin		
Median (IQR) number of days	5 (0–10)	0 (0–2)
Any use (n, %)	55 (67)	3 (38)
Linezolid		
Median (IQR) number of days	6 (2–10)	8 (4–9)
Any use (n, %)	62 (76)	8 (100)
Meropenem		
Median (IQR) number of days	2 (0–8)	5 (3–10)
Any use (n, %)	43 (52)	7 (88)
Piperacillin-tazobactam		
Median (IQR) number of days	0 (0-2)	0 (0–3)
Any use (n, %)	23 (28)	2 (25)

Abbreviation: IQR, interquartile range.

Table 5. Exploratory Multivariable Analysis of Risk Factors for Stenotrophomonas maltophilia Infection

Factor	Adjusted Hazard Ratio	95% Confidence Interval	P Value
Ciprofloxacin <sup>a</sup>	0.59	.40–.87	<.01
Levofloxacin <sup>a</sup>	0.83	.62-1.12	.23
Meropenem <sup>a</sup>	1.10	.97-1.26	.12
Stenotrophomonas maltophilia oral abundance <sup>b</sup>	1.03	1.02–1.05	<.01

<sup>a</sup>Hazard ratios refer to hazard associated with each additional day of antibiotic exposure. <sup>b</sup>Hazard ratios refer to hazard associated with 1% increase in *S. maltophilia* relative abundance.

with *S. maltophilia* infection more frequently had detection of *Stenotrophomonas* in oral microbiome samples and had a higher relative abundance of *Stenotrophomonas* than patients without infection. Notably, this finding includes 2 patients with SSTIs caused by *S. maltophilia*, indicating that the oral microbiome may serve either as a potential reservoir for pathogenic *S. maltophilia* or as an indicator of multisite colonization pressure in these patients. Additionally, we confirm and expand on findings that carbapenems are a significant risk factor for *S. maltophilia* infection, identifying that each additional day of use further increases the risk of *S. maltophilia* infection [2, 9, 10].

Previous studies have clearly found that microbiome domination events precede infection with pathogenic microorganisms in patients with hematologic malignancy [16-18, 28, 29]. Importantly, however, these studies have focused on the fecal, rather than oral, microbiome. Our findings make it evident that the oral microbiome may play an important role in the pathogenesis of certain infections and should be given consideration in studies that link the microbiome with clinically relevant infections. It is worth noting previous studies that have identified associations between the fecal microbiome and subsequent infection have focused predominantly on infections caused by Enterobacteriales and Enterococcus spp., which in neutropenic patients are generally associated with primary bloodstream infection caused by gastrointestinal translocation [30]. In contrast, S. maltophilia infections in this population are generally either primarily respiratory in origin or catheter-related bloodstream infections; therefore, the relationship between the oral microbiome and S. maltophilia infection, rather than fecal microbiome and infection, does seem logical [3]. Whether the same relationship holds true for other organisms more commonly associated with respiratory infections rather than gastrointestinal translocation, such as Pseudomonas aeruginosa and Acinetobacter baumannii, is unclear.

We additionally expand on other studies that have assessed antibiotic exposure as a risk factor for *S. maltophilia* infection. Previous studies performed in general patient populations and in patients with hematologic malignancy have identified carbapenem use as a significant risk factor for S. maltophilia infection, in agreement with the intrinsic resistance of S. maltophilia to carbapenem antibiotics [2]. However, not all studies have identified carbapenem use as a risk factor for S. maltophilia infection in all situations, particularly when evaluated as a dichotomized (ie, yes/no) variable [7, 10, 31]. In our study, we identified both dichotomized use of carbapenems as a risk factor for S. maltophilia infection as well as cumulative exposure assessed in a time-varying Cox proportional hazards model. It is reasonable to expect that a larger cumulative antibiotic exposure would increase risk to a greater extent than a smaller cumulative exposure. Indeed, the critical need to assess antibiotic exposure as a cumulative measure in a time-varying model has recently been demonstrated [23, 32, 33]. While it is possible and likely that prolonged length of stay is associated with more antibiotic use and exposure to hospital-acquired pathogens and could therefore potentially explain the observed association with cumulative antibiotic exposure, the differential cumulative risk of different antibiotics argues against this point. Of note, no other β-lactam antibiotic was associated with increased risk of S. maltophilia infection. As organisms that require the use of carbapenems are increasingly common in patients with AML, the risk-benefit trade-off for continued empiric carbapenem use relative to other  $\beta$ -lactams must be carefully considered in each patient [13].

The prevalence of S. maltophilia in patients with AML receiving induction chemotherapy is both surprising and concerning. While S. maltophilia is a known pathogen in cancer patients, it is generally perceived to be a pathogen that appears later in a patient's treatment course due to low virulence potential [10]. However, in this cohort of newly diagnosed patients with AML receiving induction chemotherapy, 9% of patients had microbiologically confirmed S. maltophilia infection and all infections occurred following receipt of a carbapenem. These data suggest that S. maltophilia infection must be considered in any patient with AML who has received treatment with a carbapenem, with patients who have received longer courses of carbapenems being at higher risk. Additionally, these data highlight the potential harms of early carbapenem use leading to microbiome dysbiosis and selection pressure for carbapenemresistant organisms, such as S. maltophilia. As S. maltophilia is a fairly ubiquitous environmental organism and our data indicate that acquisition of S. maltophilia occurs over time, infection control measures or environmental screening may also be plausible methods to mitigate against the risk of early S. maltophilia infection [34].

There are several limitations to our study. First, the relatively small sample size and single-site nature of the study preclude the development of a multivariable risk prediction model, although preliminary findings indicate that such a model is feasible at scale. Due to the limited sample size, all results should be viewed as hypothesis-generating. Second,

misclassification bias of our primary outcome, S. maltophilia infection, is possible as the diagnosis in many cases relied on respiratory cultures. In patients with heavy oral colonization by Stenotrophomonas, this may have led to contamination of the diagnostic respiratory culture. However, as half of the patients with pneumonia also had concomitant bacteremia and all patients had clinical signs and symptoms compatible with pneumonia, this seems less likely. It is unknown if these findings are applicable at other centers caring for patients with AML, and it is also not clear if the relationships between the microbiome, antibiotic exposure, and S. maltophilia infection are relevant in other patient populations. Additionally, the tremendous genetic heterogeneity of S. maltophilia is just beginning to be understood, and how interstrain variability may influence these findings is unknown [35]. Therefore, these findings require validation in a multicenter study. Finally, while the relationship between the oral microbiome relative abundance and S. maltophilia infection appears to be quite strong, the applicability of this finding is limited until longitudinal microbiome sampling on clinical samples becomes feasible as baseline detection does not appear to predict subsequent infection. However, for centers with a high prevalence of S. maltophilia infection, development of dynamic PCR-based screening methods may have utility in directing empiric treatment for patients with suspected infections, and the performance characteristics of such screening should be evaluated in future studies. Last, the lack of data on the extraction controls limited our ability to exclude the potential of a reagent or processing contamination event during DNA extraction or any processes upstream of it. In addition, techniques used for microbiome evaluation did not allow us to specifically determine that all sequencing reads that map to the genus Stenotrophomonas are, in fact, S. maltophilia. However, the absence of reads that map to Stenotrophomonas in the library preparation controls and the validation with species-specific PCR (data not shown) partially mitigate these concerns.

Despite these limitations, there are several notable strengths to our study. First, the prospective design and longitudinal microbiome sampling allowed for an assessment in the relative abundance of *Stenotrophomonas* as a function of time. Additionally, this cohort is the largest of its kind to date and can therefore provide insight on relatively rare individual events, such as *S. maltophilia* infection. Finally, incorporation of microbiome data and antibiotic use data represents a step forward in understanding how the interaction of the microbiome and antibiotic use may affect downstream infection risk.

In conclusion, the oral microbiome and cumulative antibiotic use appear to be important factors in the development of *S. maltophilia* infection in patients with AML receiving chemotherapy. Multicenter studies are needed to validate and expand on these findings.

#### **Supplementary Data**

Supplementary materials are available at *Clinical Infectious Diseases* online. Consisting of data provided by the authors to benefit the reader, the posted materials are not copyedited and are the sole responsibility of the authors, so questions or comments should be addressed to the corresponding author.

#### Notes

*Acknowledgments.* The authors gratefully acknowledge the support of Vanessa Stevens, PhD, for technical assistance and advice in developing the time-varying Cox proportional hazards model.

*Financial support.* This work was supported by the National Institute of Allergy and Infectious Diseases (NIAID) at the National Institutes of Health (NIH; R01 AI134637, R21 AI143229, and K24 AI121296 to C. A. A.; U01 AI124290 to T. C. S.; K01 AI143881-01 to J. G. P.), the National Institute of Diabetes and Digestive and Kidney Disease at the NIH (P30 DK56338) to T. C. S., the MD Anderson Odyssey Fellowship Program (to J. G. P.), the CFP Foundation (to J. G. P.), the UTHealth Presidential Award (to C. A. A.), the University of Texas STARS Award (to C. A. A.), and the Texas Medical Center Health Policy Institute Funding Program (to C. A. A.).

Potential conflicts of interest. S. L. A. has received research support from Melinta Therapeutics and Merck and has served on advisory boards for Shionogi, Paratek, and Merck. T. C. S. has received research support from Merck, Nivalis, Cubist, Mead Johnson, Rebiotix, BioFire, and Assembly BioSciences and has served on advisory boards for Rebiotix and BioFire. C. A. A. has received research support from Merck Inc, MeMed Diagnostics, and Entasis Therapeutics; chapter royalties from UptoDate, Harrison Principles of Internal Medicine, and Mandell Principles and Practice of Infectious Diseases; study section member and grant reviewer fees from NIH/NIAID; reimbursement for traveling to IDWeek and ID Program Committee meetings as IDWeek chair from the Infectious Diseases Society of America; reimbursement for traveling to ASM Microbe from the American Society for Microbiology; and Antimicrobial Agents and Chemotherapy editor's stipend from the American Society for Microbiology outside the submitted work. D. P. K. has received support and consultancy fees from Astellas Pharma, Cidara, Amplyx, Pulmocide and Mayne, Gilead, and United Medical; served on the advisory board of Merck; and has received the Texas 4000 Distinguished Professorship for Cancer Research and NIH-NCI Cancer Center CORE Support grant no. 16672 outside the submitted work. All other authors report no potential conflicts. All authors have submitted the ICMJE Form for Disclosure of Potential Conflicts of Interest. Conflicts that the editors consider relevant to the content of the manuscript have been disclosed.

#### References

- Zilberberg MD, Nathanson BH, Sulham K, Fan W, Shorr AF. A novel algorithm to analyze epidemiology and outcomes of carbapenem resistance among patients with hospital-acquired and ventilator-associated pneumonia: a retrospective cohort study. Chest 2019; 155:1119–30.
- 2. Brooke JS. *Stenotrophomonas maltophilia*: an emerging global opportunistic pathogen. Clin Microbiol Rev **2012**; 25:2–41.
- Safdar A, Rolston KV. Stenotrophomonas maltophilia: changing spectrum of a serious bacterial pathogen in patients with cancer. Clin Infect Dis 2007; 45:1602–9.
- Kim SH, Cha MK, Kang CI, et al. Pathogenic significance of hemorrhagic pneumonia in hematologic malignancy patients with *Stenotrophomonas maltophilia* bacteremia: clinical and microbiological analysis. Eur J Clin Microbiol Infect Dis 2019; 38:285–95.
- Ko JH, Kang CI, Cornejo-Juárez P, et al. Fluoroquinolones versus trimethoprimsulfamethoxazole for the treatment of *Stenotrophomonas maltophilia* infections: a systematic review and meta-analysis. Clin Microbiol Infect **2019**; 25:546–54.
- Jeon YD, Jeong WY, Kim MH, et al. Risk factors for mortality in patients with *Stenotrophomonas maltophilia* bacteremia. Medicine (Baltimore) 2016; 95:e4375.
- Sumida K, Chong Y, Miyake N, et al. Risk factors associated with *Stenotrophomonas maltophilia* bacteremia: a matched case-control study. PLoS One 2015; 10:e0133731.
- Micozzi A, Venditti M, Monaco M, et al. Bacteremia due to *Stenotrophomonas* maltophilia in patients with hematologic malignancies. Clin Infect Dis 2000; 31:705-11.

- Boktour M, Hanna H, Ansari S, et al. Central venous catheter and Stenotrophomonas maltophilia bacteremia in cancer patients. Cancer 2006; 106:1967–73.
- Aisenberg G, Rolston KV, Dickey BF, Kontoyiannis DP, Raad II, Safdar A. *Stenotrophomonas maltophilia* pneumonia in cancer patients without traditional risk factors for infection, 1997–2004. Eur J Clin Microbiol Infect Dis 2007; 26:13–20.
- Ansari SR, Hanna H, Hachem R, Jiang Y, Rolston K, Raad I. Risk factors for infections with multidrug-resistant *Stenotrophomonas maltophilia* in patients with cancer. Cancer 2007; 109:2615–22.
- Armand-Lefèvre L, Angebault C, Barbier F, et al. Emergence of imipenemresistant gram-negative bacilli in intestinal flora of intensive care patients. Antimicrob Agents Chemother 2013; 57:1488–95.
- Baker TM, Satlin MJ. The growing threat of multidrug-resistant gram-negative infections in patients with hematologic malignancies. Leuk Lymphoma 2016; 57:2245–58.
- Blennow O, Ljungman P. The challenge of antibiotic resistance in haematology patients. Br J Haematol 2016; 172:497–511.
- Satlin MJ, Chavda KD, Baker TM, et al. Colonization with levofloxacin-resistant extended-spectrum β-lactamase-producing Enterobacteriaceae and risk of bacteremia in hematopoietic stem cell transplant recipients. Clin Infect Dis 2018; 67:1720–8.
- Taur Y, Xavier JB, Lipuma L, et al. Intestinal domination and the risk of bacteremia in patients undergoing allogeneic hematopoietic stem cell transplantation. Clin Infect Dis 2012; 55:905–14.
- 17. Ubeda C, Taur Y, Jenq RR, et al. Vancomycin-resistant *Enterococcus* domination of intestinal microbiota is enabled by antibiotic treatment in mice and precedes bloodstream invasion in humans. J Clin Invest **2010**; 120:4332–41.
- Scheich S, Koenig R, Wilke AC, et al. *Stenotrophomonas maltophilia* colonization during allogeneic hematopoietic stem cell transplantation is associated with impaired survival. PLoS One **2018**; 13:e0201169.
- Galloway-Pena JR, Shi Y, Peterson CB, et al. Gut microbiome signatures are predictive of infectious risk following induction therapy for acute myeloid leukemia. Clin Infect Dis 2020; 71(1):63–71.
- Galloway-Peña JR, Smith DP, Sahasrabhojane P, et al. The role of the gastrointestinal microbiome in infectious complications during induction chemotherapy for acute myeloid leukemia. Cancer 2016; 122:2186–96.
- Caporaso JG, Lauber CL, Walters WA, et al. Global patterns of 16S rRNA diversity at a depth of millions of sequences per sample. Proc Natl Acad Sci U S A 2011; 108 Suppl 1:4516–22.
- Caporaso JG, Lauber CL, Walters WA, et al. Ultra-high-throughput microbial community analysis on the Illumina HiSeq and MiSeq platforms. ISME J 2012; 6:1621–4.
- Stevens V, Dumyati G, Fine LS, Fisher SG, van Wijngaarden E. Cumulative antibiotic exposures over time and the risk of *Clostridium difficile* infection. Clin Infect Dis 2011; 53:42–8.
- Salter SJ, Cox MJ, Turek EM, et al. Reagent and laboratory contamination can critically impact sequence-based microbiome analyses. BMC Biol 2014; 12:87.
- Altschul SF, Gish W, Miller W, Myers EW, Lipman DJ. Basic local alignment search tool. J Mol Biol 1990; 215:403–10.
- Ryan RP, Monchy S, Cardinale M, et al. The versatility and adaptation of bacteria from the genus *Stenotrophomonas*. Nat Rev Microbiol 2009; 7:514–25.
- Patil PP, Midha S, Kumar S, Patil PB. Genome sequence of type strains of genus Stenotrophomonas. Front Microbiol 2016; 7:309.
- Hakim H, Dallas R, Wolf J, et al. Gut microbiome composition predicts infection risk during chemotherapy in children with acute lymphoblastic leukemia. Clin Infect Dis 2018; 67:541–8.
- Taur Y, Jenq RR, Ubeda C, van den Brink M, Pamer EG. Role of intestinal microbiota in transplantation outcomes. Best Pract Res Clin Haematol 2015; 28:155–61.
- van der Velden WJ, Herbers AH, Netea MG, Blijlevens NM. Mucosal barrier injury, fever and infection in neutropenic patients with cancer: introducing the paradigm febrile mucositis. Br J Haematol 2014; 167:441–52.
- Nseir S, Di Pompeo C, Brisson H, et al. Intensive care unit-acquired Stenotrophomonas maltophilia: incidence, risk factors, and outcome. Crit Care 2006; 10:R143.
- Teshome BF, Vouri SM, Hampton N, Kollef MH, Micek ST. Duration of exposure to antipseudomonal β-lactam antibiotics in the critically ill and development of new resistance. Pharmacotherapy 2019; 39:261–70.
- Munoz-Price LS, Frencken JF, Tarima S, Bonten M. Handling time-dependent variables: antibiotics and antibiotic resistance. Clin Infect Dis 2016; 62:1558–63.
- Adegoke AA, Stenström TA, Okoh AI. Stenotrophomonas maltophilia as an emerging ubiquitous pathogen: looking beyond contemporary antibiotic therapy. Front Microbiol 2017; 8:2276.
- Mojica MF, Rutter JD, Taracila M, et al. Population structure, molecular epidemiology, and beta-lactamase diversity among *Stenotrophomonas maltophilia* isolates in the United States. MBio 2019; 10(4):e00405-19.

Marzuillo C, Giusti MD, Tufi D, et al. Molecular Characterization of Stenotrophomonas maltophilia Isolates from Cystic Fibrosis Patients and the Hospital Environment. Infection Control & Hospital Epidemiology. 2009;30(8):753-758. doi:10.1086/598683

# Abstract

# Objectives.

To ascertain whether cystic fibrosis (CF) patients are colonized or infected with unique or multiple strains of *Stenotrophomonas maltophilia*; to understand whether some strains colonize or infect more than 1 patient, indicating clonal spread; and to explore the molecular heterogeneity of hospital water isolates and their correlation with clinical isolates.

# Setting.

The regional CF center of Policlinico "Umberto I" of Rome, Italy.

# Methods.

The study was carried out on a random sample of *S. maltophilia* isolates (n = 110) collected from CF patients (n = 50) during the period 2002–2005 and on 24 water isolates obtained during a monitoring program in the first 6 months of 2005. Home environmental samplings were not performed. All isolates, which were recovered from cultures of specimens obtained in both inpatient and outpatient settings, were genotyped with DNA macrorestriction analysis with the restriction enzyme *Xbal* and pulsed-field gel electrophoresis.

# Results.

One-third of the patients with repeated episodes of *S. maltophilia* infection or colonization hosted more than 1 strain. A potential transmission, defined as the isolation of the same strain in 2 or more patients, occurred 5 times, showing a frequency of potential transmission episodes slightly higher than previously reported. Water, taps, and sinks of the different rooms of the CF center tended to be persistently colonized with the same strain of *S. maltophilia*, with no correlation between clinical and water-associated isolates.

# Conclusions.

The study does not provide sufficient data to conclude definitively that isolation of colonized or infected CF patients and control of hospital water systems contamination would be beneficial infection control measures. Epidemiologic analytical studies that correlate the presence of *S. maltophilia* with clinical outcomes are strongly needed.

New South Glasgow Hospital & Laboratory Project

Contract Data Part 2 Volume 1 - Schedules of Accommodation New Adult and Children's Hospitals

te l'al

# New South Glasgow Hospital & Laboratory Project

Contract Data Part 2 Volume 1 - Schedules of Accommodation New Adult's Hospital

NSGH - New Adult Hospital

Contract Data Part 2 Volume 1 - Schedules of Accommodation



Image: Section of the secti	Department / Service	Quantity	Quantity	Size	Total	Notes	1	Brookfield
$n \ \text{ret} V \cdot 0 \ $			Adj	m2	m2		Brookfield	area shortfia
Made         Mat         Made         Made <th< td=""><td>OBC SoA - ER Version REV 1 @ Close of Dialogue</td><td></td><td></td><td></td><td></td><td>updated August '09</td><td></td><td></td></th<>	OBC SoA - ER Version REV 1 @ Close of Dialogue					updated August '09		
Index         Index <t< td=""><td>In-Patient Services - Wards</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	In-Patient Services - Wards							
$ \begin{array}{c c c c c c } & 1,01 & 1,02 & 1,03 & 1,$	Generic Wards Surgical, Medical & Elderly				26,944			-
$  (0)(0)(1) = \begin{pmatrix} 1 & (1)(0) &$	ENT	28	1.00	1,100	1,100			L
	Respiratory	28	1.00	1.078	1.078			
$ \begin{array}{c c c c c } & 1,0 & 1,0 & 1,0 \\ \hline 1,0 & 1$	Rheumatotogy	28	\$,00	1,100	1,100			2.
(i)()(adv.)         44         1,01         1,31         1,31           ii)()()()()()         ii)()         iii)()         iiii)()         iiii)()         iiiii)()           iii)()()()()()         iii)()         iiiii)()         iiiiiiiiiii)()         iiiiiiiii)()         iiiiiiiiii)()           iiii)()()()()()()()()()()()()()()()()()	Dermatology	18	\$.00	£66	666			
$ \begin{array}{c} \label{eq:production} \\ \matrix \matri$	Stroke	26	1.00	1,332	1,332			
Wards         10         100         107         101           ail Wards         10         100         101	Renal (80) 22 Bed Renal Ward	44	2.00	886	1.773			÷
nutivitangi $20$ (100 (101) (101) 14 $600$ $87$ $87$ $14 + 4 dirj beds. 14 600 30 302 30210 10 10 10 14 14 dirj beds. 10 10 10 10 14 14 dirj beds.10 10 10 10 10 14 14 dirj beds.10 10 10 10 10 10 10 10 $	Additional Support for 22 Bed Wards 16 Renal Ward & Day Unit	16	1.00	1,016	77			4
. commodelion         1.1         (10)         6.77         (1.4.4 Gay bed3.           . 000         303         2.872         2.872         2.872         2.872           . 100         302         2.872         2.872         2.872         2.872         2.872           . 100	20 Higher Acuity (Level 2 Renal Ward)	20	1.00	1.031	1,031			
commodulon     end     statu       20     30     312       20     100     31       20     100     10       20     100     10       10     1     20       100     20       100     20       100     20       100     20	Haemato-Oncology	14	1.00	827	827	14 + 4 day beds		,
1       1       20       6.19       See Emergiancy Complex section for deall       40.30         1       10       1       20       6.19       See Emergiancy Complex section for deall       40.30         1       10       1       20       31 norms       6.19       See Emergiancy Complex section for deall       40.30         1       10       1       20       31 norms       6.19       Alter Standale for dealls of all new beds       40.30         Departments         Childeet in 1       1<	Ward Clusters - Support Accommodation Tor 32 wards @ 4 per Cluster For 2 Wards GENERAL ACUTE BEDS		8.00 1.00	353 302	2,822 302		-r: Fot-d-b	k
Integration     Inte	Critical Care Bods (79)							ŝ
10     <		20						
10     <	Surgical HDU Wedical HDU	23 16						
1,09     1,09     4,564     See Bods Schedule for details of all new bods       10     10     10     20     6,470       110     10     10     10     410       10     10     10     10     410       10     10     10     10     410       10     10     10     10     410       111     10     10     10     410       111     10     11     5,426     NB Invasive calclology at Golden Jubite Hospital       111     11     5,426     NB Invasive calclology at Golden Jubite Hospital     410,30       ensing     11     5,426     NB Invasive calclology at Golden Jubite Hospital     410,40       11     10     5,426     NB Invasive calclology at Golden Jubite Hospital     410,40       11     10     5,426     NB Invasive calclology at Golden Jubite Hospital     410,40       11     10     5,426     NB Invasive calclology at Golden Jubite Hospital     410,40       10     10     5,02     Supplies both NSCH & NCH     410,40       10     10     10     100     100,40     410,40	AAU Beds	818			6,168	See Emergency Complex section for detail		
Item     10     1     20     6,17       Item     10     1     20     410       Item     10     1     10     10       11     1     1     1     10       11     11     1     1     10       11     11     1     10     10       11     11     1     10     10       11     11     10     10     10       11     11     10     10     10       11     11     10     10     10       11     10     10     10     10       11     10     10     10     10       11     10     10     10       11     10     10     10       10     10     10     10	Total Beds for SGH	1,109			46,564	See Beds Schedule for details of all new beds		
Image	Operating Facilities							ŝ
Itres     10     1     20     640 416     Allowance     400       Departments       Intervention       10     3     410     Allowance     410     Allowance     410     Allowance       Children's)     10     4     4     4     4     4     4     4     4       2     4     4     4     4     4     4     4     4     4       Children's)     4	Block A - 10 Theatres (Clean)	01	9					
Image     Counts     Top     Allowance	Block B - 10 Theatres	10	1 20		6,479			
Image: Departments         Image: Departments         Image: Departments         Image: Departments           10         1         1         10         10           1         1         1         10         10           2         2         10         10         10           2         2         10         10         10           2         2         10         10         100           2         2         10         100         100           2         2         100         100         100           1         100         5.426         NB Invasive curdiology at Golden Jubile Hospital           1         100         5.426         NB Invasive curdiology at Golden Jubile Hospital           1         100         5.426         Supplies both NSGH & NCH         100           1         100         5.426         Supplies both NSGH & NCH         100           1         100         5.02         Supplies both NSGH & NCH         100           1         100         5.00         Supplies both NSGH & NCH         100           1         100         5.00         Supplies both NSGH & NCH         100.00	Endoscopy (Locale with Theatres) Decontamination		3 rooms		420 416 7,314	Allowance	416.30	
Induction (Collection     Instant (Content (Conte	Diagnostic / Support Departments							
Children's)	Radiology Jain Film	10				DR Technology		
Children's)	Ultrasound	14						
Childrents)     3       2     2       1     included in plain included in 1     NB Invasive cardiology at Golden Jubilee Hospital       1     5,426       4     5,426       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20       1     5,20	Mammography	• -						
2     NB Invasive cardiology at Golden Jubite Hospital       1     1       1     Included in plain film norm       1     1	vuolear medicine (Joint with Children's)	ο (a) 4						
2     NB Invasive cardiology al Golden Jublice Hospital       1 included in plain film norm     5,426       1 solutions / 1 solutions / cabinets     5,426       1 solutions / cabinets     302     Supplies both NSGH & NCH       1 solutions / cabinets     320     Supplies both NSGH & NCH       1 solutions / cabinets     320     Supplies both NSGH & NCH       1 solutions / cabinets     320     Supplies both NSGH & NCH       1 solutions /     320     Supplies both NSGH & NCH	Fluoroscopy - Diagnostic	n2 P						
ensing     111 solutions / cabinets     5,426       111 solutions / cabinets     302       Supplies both NSCH & NCH     located in NCH       bution / Collection     202       Allowance, locate in FM area     190.50	Interventional	2 1 included in				NB Invasive cardiology at Golden Jubilee Hospital		
ensing     5,426       111 solutions / cabinets     302     Supplies both NSCH & NCH       10 cabinets     520     Supplies both NSCH & NCH       bution / Collection     202     Allowance, locale in FM area -	OPG Bone Mineral Densitometry	moor min nim						
11 isolables /     302     Supplies both NSGH & NCH       12 cablnets     520     Supplies both NSGH & NCH       12 Collection     520     Supplies both NSGH & NCH       12 Collection     202     Allowance, location in FM area -	Radiology Total	-			5,426			Ś
11 I solutions /     320     Supplies both NSGH & NCH     Iocated in NCH       1/ Collection     202     Allowance, locate in FM area -     190.50	Pharmacy Shared Pharmacy Local Disciension				302	Swoollies both NSGH & NCH		
Receipt / Distribution / Collection 202 Allowance, locale in FM area - 190.50	Aseptic Suite	11 isolators / cabinets			520	Supplies both NSGH & NCH	located in NCH	
	TSSU/CSSD Receipt / Distribution / Collection				202	Allowance, locate in FM area -	190.50	

Quantity		Quantity	Size	Total	Notes	Brookfield	Brookfield total net roo
Units	Adj		m2	m2		Brookneid	area shortfa
				739	Includes SGH & NCH (excluding) Med Equip Library), Critical care, theatre, renal ant diatysis unit have dedicated med physics facilities	739 90	
				10	ållowance	unable to locate	
				7,203			
	1	1 /1		767	22beds / trollevs unit (endrocrine & rheumatology significant users)		
	1			767			
	[			L			
	-	1 1		3.876			-11
				1,008			
				749	SGH will be Glasgow Hub and Spoke for local patients		
30		1 x 30 stations		1,460			- 1
				7.094			
	-						
	-			2,464		-	
		Î Î.		1,051			
				1,138			
- 12	2					-	
	-					-	
				7.734			
16	-					218.40	
3						included in 218.4	
	-			50	Allowance -	above	
	-	1		643			
		_					
-				1.000			
			_		Requires turther FM input		-2
	-			1,196	Shared with Children's Hospital		-6'
				187	Allowance	180.20	
	F					included in 218 4	
4000 extensions				128	8 rooms @ 16m2 gross	included in 218 4 above	
4000 extensions				128 150	8 rooms @ 16m2 gross Allowance	included in 218 4 above unable to locate	
4000 extensions				128	8 rooms @ 16m2 gross	included in 218 4 above	
4000 extensions				128 150 660 165	8 rooms @ 16m2 gross Allowance Allowance	included in 218 4 above unable to locate unable to locate	
4000 extensions				128 150 660 165 60 250	8 rooms @ 16m2 gross Allowance	included in 218 4 above unable to locate unable to locate	
4000 extensions				128 150 660 165 60	8 rooms @ 16m2 gross Allowance Allowance Allowance	included in 218 4 above unable to locate unable to locate ) 285.2	
4000 extensions				128 150 660 165 60 250	8 rooms @ 16m2 gross Allowance Allowance Allowance Allowance Allowance	included in 218 4 above unable to locate unable to locate ) 285.2	-2,3
4000 extensions				128 159 660 165 60 250 3,768	8 rooms @ 16m2 gross Allowance Allowance Allowance Allowance Allowance	included in 218 4 above unable to locate unable to locate ) 285.2	
4000 extensions				128 159 660 165 60 250 3,768	8 rooms @ 16m2 gross Allowance Allowance Allowance Allowance Allowance	included in 218 4 above unable to locate unable to locate ) 285.2	
4000 extensions				128 159 660 165 60 250 3,768	8 rooms @ 16m2 gross Allowance Allowance Allowance Allowance Allowance	included in 218 4 above unable to locate unable to locate ) 285.2	
	30 30 2 30 41	30 28 30 48 12	30 1 x 30 stations 28 30 48 12	30 1 x 30 stations	739 739 7269 7269 767 767 767 767 767 767 767 7	739         Includes SCH & NCH (excluding Med Envilp Library), Critical care, theate, renal and distysis unit Invive dedicated med physics facilities           7269         80           7269         7269           7269         22beds / troReys unit (endrocrine & rheumatology significant users)           767         22beds / troReys unit (endrocrine & rheumatology significant users)           767         767           30         1 x 30 stations           768         5CH will be Glasgow Hub and Spoke for local patients           769         766           767         767           30         1 x 30 stations           768         5CH will be Glasgow Hub and Spoke for local patients           769         700           700         7138           7130         7138           7141         7138           7153         7138           7134         7138           7134         7138           7134         7134	739     1     Calculate     739     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1

18/12/2009

#### GENERIC WARDS

Number of Beds Percentage Single Rooms			8 0%	690 BEDS -	10	TAL.							
Description	Qty	Unit Area m²	Total Area m <sup>r</sup>	Comment	BE	DIFFEF		n Area rtfall % target	Can area variance be explained by design tolerance?	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage		BE comment
Bed area facilities													
Acute single bedroom (incl family & clinical support space)	28	16.5	462.0	12 of 28 below brief area - (100% Single rooms)						Yes	Refer to NA-XX- XX-SK-AS-400- 100	No/Yes	Revised sketch prepared to indicate minimum roo size NA can achieve is 16.52m2 (max 17.11m2). No Bedrooms below briefed area
Patients en-suite wc & wash double assist	28	4.5	126.0	(as per HBN 00-02)									
Sub-Total			588.0		599	.2 1	1.2						
Patient support facilities													
Interview/sitting room	1	90	9.0		10	7							
Resuscitation trolley parking bay 1 trolley	1	2.0	-		1	4	-0 6	-30 0%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted If required Disposal Hold above area; area to CU can be
Pantry/Beverage making area	1	12.0	12.0		11	1	-0.9	-7 5%	yes	Yes	Yes	No/Yes	increased If required
Ward Food trolley parking bay	1	1.5	1.5							Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Wheelchair bay	1	40	4.0	2 provided @ 2.3	4	.6				Yes	Yes	No/Yes	We assume that this is acceptable
Nurses Station	1	80			11								
Touch Down Spaces	4	2.0	8.0	6 provided by bidder all under brief area -(as per HBN 04-01)						Yes	Yes	No/Yes	Our design proposal is based around providing 6xsmaller touchdown bases to ensure an even spread around the ward. This assists with the flexibility of the template.
										103	103	1401103	,
Sub-Total			44,5		47	.6	3.1						

#### GENERIC WARDS

Number of Beds Percentage Single Rooms		2	8 0%										
Description	Qty	Unit Area m²	Total Area m <sup>a</sup>	Comment	BE	DIFFERS	Room shor		Can area variance be explained by	Can NA plan functional	Functionality to be determined at RDS/1:50		BE comment
								% target	design tolerance?	room in this area	planning stage	designed out?	
Backup Storage							squi		tolerancer				
Linen trolley parking bay		1.5	1.5										
Clinical supplies trolley	1	1.5	12U		1.4		-0. 1	-6.7%	yes	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted If required Corridor can be reduced and/or riser size slightly
Clinical Store/Controlled drug Cupboard	1	1.5			1.4		-0. 1	-6 7%	yes	Yes	Yes	No/Yes	adjusted If required
Clean Utility Room	1	12.0	1 12.0		10.6		-1 4	-11.7%	7	Yes	Yes	No/Yes	Disposal Hold above area; area to CU can be Increased If required
Large Eqpl Store	1	7.5	1 9.6		58		-1 7	-22.7%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Sub-Totat			24.0		21.9	-2.1							
Utilities													
Dirty utility/Sluice/Test Room - small	1	6.5	6.5		6.9								
Dirty utility/Disposal hold	1			Interm Disposal Hold on Ward	20.6								
Cleaners room					7.8								
WC/WHB - type 1		2.0			3.9								
Switchgear cupboard	1	10			00								
Sub-Total			24.5		42.9	18.4							
Office and Administrative Services					1								
Reception - 2 position - open	1	8,0		shared 1 between 2 wards	7.7		-0 3	-3 8%	yes	Yes	Yes	No/Yes	Our design proposal is based around a shared Reception/Wait/ WC area at each Public Core. Th assists with the flexibility of the template - we assume that this is acceptable.
Office - 1 position + meeting area	1	12.0	12.0		1								
Charge Nurse/Sister's Office	1	9.0											
Printer/IT/Admin Store Room	1	6.0	6.0										Our design proposal is based around a shared
Waiting Area - 5-10 persons	ă	16.0	16.0	shared 1 between 2 wards	20_1					Yes	Yes	No/Yes	Reception/Walt/ WC area at each Public Core. Th assists with the flexibility of the template - we assume that this Is acceptable.
Sub-Total			51.0		54.8	3.8							
Additional Accomodation and Services		24.0	24.0	Could be dispersed and/or	-								
Socialisation Space				informal socialisation space	25 5								Socialisation Space is above area; move wall to
Medical Hot Desking (2 Places)	1	10.0			9.2		-0.8	-8 0%	yes	Yes	Yes	No/Yes	Increase area of Hot Desk
Sub-Total			34.0		34.7	0.7							

Total net (incl Optional Accom)	1	766.0	801.	t	35.1	-5 9	-0 8%				
Planning	5%	38.3									
Sub-Total		804.3									

18/12/2009

#### GENERIC WARDS

Number of Beds Percentage Single Rooms			28 0%									
Description	Qty	Unit Area m <sup>a</sup>	Totai Area m²	Comment	BE	DIFFERS	Room Area shortfall % sqm tarpet	Can area variance be explained by design tolerance?		RDS/1:50		BE comment
Engineering	3%		24.1				Sent Cargor	10101011001				
Circulation	31%	_	249 3			- 4						
Total			1077.8	5	130	0	a de la casa de la cas	-	And in case of the		Contraction of the local division of the loc	This is the BE Total Area

18/12/2009

A51115531

## ENT WARD

Number of Beds Percentage Single Rooms		2	8 0%										
Description	Qty	Unit Area m²	Total Area m²	Comment	BE	DIFFERS	Room shoi	rtfall	Can area variance be exp <sup>1</sup> ained by design	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning	Will more area be required/can shortfall be designed out?	
Bed area facilities							sqm	% target	tolerance?		stage		
Acute single bedroom (inc) family & clinical support space)	28	16.5	462.0	12 of 28 below brief area -{100% Single rooms}						Yes	Refer to NA- XX-XX-SK-AS- 400-100	No/Yes	Revised sketch prepared to indicate minimum roo size NA can achieve is 16.52m2 (max 17.11m2). No rooms below briefed area
Patients en-suite wc & wash double assist	28	4 5	126.0	(as per HBN 00-02)									
Sub-Total			588.0		611.0	23.0							
Patient support facilities		-											
Treatment Room	ŝ	16.0	16.6	not provided by bidder	0.0		16.0	- 100.0%	no	addition standard	sing as this is nal from the Goneric Ward mplate	Yes/No	Room variation from the Standard Generic Ward Template. We propose to move the ENT Ward so i has direct access to the Multi-Functional Shared Support Pod. This is where we will be able to add the additional rooms required in the 'non-generic' situation. This may lead to this 'pod' increasing in size to accommodate the 16m2 ('pod' currently 4m over area) and depends on the functionality of the area at 1:50
Interview/sitting room	1	90	9.0		10.7		100	100 0 10		10	mprato	1001110	
Resuscitation trolley parking bay 1 trolley	1	2.0	2.0		1.4		-06	-300%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Pantry/Beverage making area	1	12.0	12.0		11.1		-0.9	-7.5%	yes	Yes	Yes	Norres	Disposal Hold above area; area to CU can be Increased If required
Ward Food trolley parking bay	1	1.5	1.5		1.1		-0.4	-26 7%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Wheelchair bay	1			2 @ 2 3 provided by bidder			0.1			Yes	Yos	No/Yes	We assume that this is acceptable
Nurses Station Fouch Down Spaces	4		8.0	6 @ 1.2 provided by bidder(as per HBN 04-01)	11,6					Yes	Yes	NofYes	Our design proposal is based around providing 6xsmaller touchdown bases to ensure an even spread around the ward. This assists with the flexibility of the template.
Sub-Total					47.6	-12.9							

18/12/2009

A51115531

-2.1

18.4

## ENT WARD

Number of Beds Percentage Single Rooms			8 0%		
Description	Qty	Unit Area m²	Total Area m³	Comment	BE DIFFERS
Linen trolley parking bay		1.5	1.5		
Clinical supplies trolley	<u>,</u> 1	1.5	12083		1.4
Clinical Store/Controlled drug Cupboard	1	1 5	1 <b>13</b>		1.4
Clean Utility Room	3	12 0	1 CR		106
Large Eqpt Store	1	7.5	74		58
Sub-Total			24.0		21.9 -2.
Utilities		_			
Dirty utility/Sluice/Test Room - small	1	6.5			6.9
Dirty utility/Disposal hold	1	8.0		Interim Disposal Hold on Ward	20.6
Cleaners room	1	7.0			7.8
WC/WHB - type 1	4	2.0			3.9
Switchgear cupboard	3	1.0	1.0		
Sub-Total			24.5		42.9 18.

	n Area rtfall % target	Can area variance be explained by design tolerance?	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage	Will more area be required/can shortfall be designed out?	BEcomment
-0.1	-6.7%	Ves	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
				14		Corridor can be reduced and/or riser size slightly
-0 1	-6 7%	yes	Yes	Yes	No/Yes	adjusted if required Disposal Hold above area; area to CU can be
-14	-11 7%	2	Yes	Yes	No/Yes	increased if required
-1.7	-22 7%	no	Yes	Yes	Norres	Corridor can be reduced and/or riser size slightly adjusted if required

18/12/2009

## ENT WARD

Number of Beds Percentage Single Rooms			28 0%			
Description	Qty	Unit Area m²	Tota! Area m²	Comment	BE DIF	FERS
Office and Administrative Services					1	
Reception - 2 position - open	ţ	8.0	8.8	not provided by bidder - shared 1 between two wards	0.0	
Office - 1 position + meeting area		1210				
Charge Nurse/Sister's Office	1	9.0				
Printer/IT/Admin Store Room	1	6.0	60			
	1	16.0	100	not provided by bidder - shared 1 between two wards		
Waiting Area - 5-10 persons					0.0	
Sub-Total			51.0		27.0	-24.
Additional Accomodation and Services						
Socialisation Space	ł	24.0	24.0	Could be dispersed and/or informal socialisation space	25.5	
Medical Hot Desking (2 Places)	ł	10.0			92	
Sub-Total			34.0		34.7	0.

25		n Area rtfall	Can area variance be explained by design	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning	Will more area be required/can shortfall be designed out?	BE comment
	sqm	% larget	tolerance?	uns area	stage		
	-8.0	-100 0%		Yes	Yes	No/Yes	Our design proposal is based around a shared Reception/Wait/ WC area at each Public Core. This assists with the flexibility of the template - we assume that this is acceptable.
24.0	-16.0	-100.0%		Yes	Yes	No/Yes	Our design proposal is based around a shared Reception/Wait/ WC area at each Public Core. This assists with the flexibility of the template - we assume that this is acceptable.
0.7	-0.8	-8.0%	yes	Yes	Yes	No/Yes	Socialisation Space is above area; move wall to increase area of Hot Desk

Total net		782.0
Planning	5%	39.1
Sub-Total		821 1
Engineering	3%	24,6
Circulation	31%	254.5
Total		1100.3

785.1	3.1 -46	5.0 -5.9%	

## RESPIRATORY WARD

## As generic ward schedule

Number of Beds			8		
Percentage Single Rooms		Unit	0% Total		
Description	Qty	Area m <sup>2</sup>	Area m <sup>2</sup>	ADB Code	Comment
Bed area facilities					
Acute single bedroom (incl family & clinical support space)	28	16.5	462.0	B0303	(100% Single rooms) allow 3no. Rooms negatively pressured
Patients en-suite wc & wash double assist	28	4.5	126.0	V1610	(as per HBN 00-02)
Sub-Total			588.0		
Patient support facilities					
Interview/sitting room	1	9.0	9.0		
Resuscitation trolley parking bay: 1 trolley	1	2.0	2.0		
Pantry/Beverage making area	1	12.0	12.0		
Ward Food trolley parking bay	1	1.5	1.5		
Wheelchair bay	1	4.0	4.0		
Nurses Station	- 1	8.0	8.0		
Touch Down Spaces	4	2.0	8.0		(as per HBN 04-01)
Sub-Total			44.5		
Backup Storage					
Linen trolley parking bay	1	1.5	1.5		
Clinical supplies trolley	1	1.5	1.5		
Clinical Store/Controlled drug Cupboard	1	1.5	1.5		
Clean Utility Room	1	12.0	12.0	T0505	
Large Eqpt Store	1	7.5	7.5		
Sub-Total			24.0		
Utilities		0.5	6.5		
Dirty utility/Sluice/Test Room - small	1	6.5	6.5	10245	Interim Diseased Hold on Word
Dirty utility/Disposal hold	1	8.0	8.0	Y0315	Interim Disposal Hold on Ward
Cleaners room	1	7.0	7.0		
WC/WHB - type 1	1	2.0	2.0		
Switchgear cupboard	1	1.0	1.0		
Sub-Total			24.5		
Office and Administrative Services					
Reception - 2 position - open	1	8.0	8.0		
Office - 1 position + meeting area	1	12.0	12.0		
Charge Nurse/Sister's Office	्र	9.0	9.0		
Printer/IT/Admin Store Room	1	6.0	6.0		
Waiting Area - 5-10 persons	1	16.0	16.0		
					1
Sub-Total			51.0		
Additional Accomodation and Services					
Socialisation Space	1	24.0	24.0		Could be dispersed and/or informal socialisation space
Medical Hot Desking (2 Places)	1	10.0	10.0		
Sub-Total			34.0		

Circulation Total	31%	249.3 1077.8
Engineering	3%	24.1
Sub-Total		804.3
Planning	5%	38.3
Total net (Incl Optional Accom)		766.0

## RHEUMATOLOGY WARD

Number of Beds Percentage Single Rooms			8 0%										
Description	Qty	Unit Area m²	Total Area m²	Comment	BE	DIFFERS	Room / short		Can area variance be explained by	Can NA plan functional room in	RDS/1:50	Will more area be required/can shortfall be	BE comment
Bed area facilities							sqm 🖇	% target	design tolerance?	this area	planning stage	designed out?	
Acute single bedroom (incl family & clinical support space)	28	16.5	462.0	12 of 28 below brief area(100% Single rooms)						Yes	Refer to NA- XX-XX-SK-AS- 400-100	No/Yes	Revised sketch prepared to indicate minimum room size NA can achieve is 16.52m2 (max 17.11m2). No rooms below briefed area
Patients en-suite with chamfered shower as per HBN 00-02	28	4.5	126.0										
Sub-Total			588.0		59	9.2 11.2							
Patient support facilities													
Interview/sitting room	1	9.0	9.0		1	0.7							
Resuscitation trolley parking bay 1 trolley	1	2.0	2.0			1.4	-0,6	-30.0%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Pantry/Beverage making area	1	12.0	12.0		1	1.1	-0.9	-7.5%	yes	Yes	Yes	No/Yes	Disposal Hold above area; area to CU can be increased if required
Ward Food trolley parking bay	1	1.5	1										Corridor can be reduced and/or riser size slightly
						1.1	-0.4	-26.7%	no	Yes	Yes	No/Yes	adjusted if required We assume that this
Wheelchair bay	1	4.0		2 provided by bidder	_	4.0				Yes	Yes	No/Yes	is acceptable
Nurses Station	1	8.0	8.0		_ 1	1.6							

A51115531

# Page 52

Touch Down Spaces	4	2.0	8.0	6 @1-2 provided by bidder(as per HBN 04-01)	4.8		-3.2	-40.0%	no	Yes	Yes	No/Yes	Our design proposi is based around providing 6xsmalle touchdown bases t ensure an even spread around the ward. This assists with the flexibility of the template.
Sub-Total			44.5		47.6	3.1							
Backup Storage	-												
Linen trolley parking bay	1	1.5	1.5										
	-		2 -40										
Clinical supplies trolley	t	1.5	15		14		-0.1	-6 7%	yes	Yes	Yes	No/Yes	Corridor can be reduced and/or rise size slightly adjusted if required
Clinical Store/Controlled drug Cupboard	t	1.5	1.5		1.4		-0_1	-6.7%	yes	Yes	Yes	No/Yes	Corridor can be reduced and/or rise size slightly adjusted if required
Clean Utility Room	1	12.0	12.6		10.6		-1.4	-11.7%	no	Yes	Yes	No/Yes	Disposal Hold abov area; area to CU car be increased if required
Large Eqpt Store	Ť	7.5	25		5.8		-1.7	-22.7%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or rise size slightly adjusted if required
0.1.7.4.1			28.0		24.0	24							
Sub-Total			24.6		21.9	-2.1							
Utilities													
Dirty utility/Sluice/Test Room - small	1	6.5	6.5		6.9								
Dirty utility/Disposal hold	1	8.0		Interim Disposal Hold on Ward	20.6								
Cleaners room	1	7.0	7.0		7.8								
WC/WHB - type 1 Switchgear cupboard	1	1.0	1.0		3.9								
					42.9	18.4							
Sub-Total			24.5			18.4							

18/12/2009

A51115531

NSGH - New Adult Hospital

1       8.0       shared 1 between 2 wards       7.7       -0.3       3.8%       yes       Yes       Yes       NoVres         1       9.0 <t< th=""><th></th><th></th><th></th><th></th><th>-16.0</th><th>0.0</th><th>16.0</th><th></th><th></th><th>Sub-Total</th></t<>					-16.0	0.0	16.0			Sub-Total
8.0         8.0         shared 1 between 2 wards         7.7         -0.3         -3.8%         yes         Yes         Yes         Yes           12.0         12.0         9.0<	room missing as this is additional from the standard Generic Ward Template	5	-100.0%	-16.0		0	16.0 not provided by bidder	16.0	1	Assisted Bathroom
8.0         8.0         shared 1 between 2 wards         7.7         -0.3         -3.8%         yes         Yes<					3.8	54.8	51.0	_		Sub-Total
8.0         8.0         shared 1 between 2 wards           12.0         12.0         12.0         7.7         -0.3         -3.8%         yes         Yes         Yes           9.0         9.0         6.0         6.0         6.0         10         10         10         10         10         10         10         10         10         10         10         10         Yes						20.1	16.0 shared 1 between 2 wards	16.0		Waiting Area - 5-10 persons
8.0 8.0 shared 1 between 2 wards 12.0 12.0 9.0 9.0 9.0 7.7 -0.3 -3.8% yes Yes Yes							6.0	6.0	-	Printer/IT/Admin Store Room
8.0         8.0         shared 1 between 2 wards           12.0         12.0         7.7         -0.3         -3.8%         yes         Yes         Yes							9.0	9.0	<u>_</u>	Charge Nurse/Sister's Office
8.0 8.0 shared 1 between 2 wards 7.7 -0.3 -3.8% yes Yes Yes							12.0	12.0	4	Office - 1 position + meeting area
		yes	-3.8%	-0.3		7.7	8.0 shared 1 between 2 wards	8.0	, <u>44</u> ,	Reception - 2 position - open

Additional Accomodation and Services												
Socialisation Space	1	24.0	24.0 Could be dispersed and/or informal socialisation space	25.5								
Medical Hot Desking (2 Places)	1	10.0	10.0	9.2		-0.8	-8 0%	yes	Yes	Yes	No/Yes	Socialisation Space is above area; move wall to increase area of Hot Desk
Sub-Total			34.0	34.7	0.7							

Total net (Incl Optional Accom)		782.0	801.1	-25.5	-3%	
Planning	5%	39.1				Ī
Sub-Total		821.1				
Engineering	3%	24.6				
Circulation	31%	254.5	1			
Total		1100.3	1300	1.200 200 2		

### DERMATOLOGY WARD

Number of Beds Percentage Single Rooms			8 0%										
Description	Qty	Unit Area m'	Total Area m²	Comments	BE	DIFFERS	sho	n Area rtfall %	Can area vanance be explained by design	plan functional room in	Functionality to be determined at RDS/1:50 planning stage	be required/can shortfall be	BE comment
Bed area facilities							sqm	target	tolerance?	-			
Acute single bedroom (incl family & clinical support space)	18	16.5	297.0	8 of 18 below brief area - (100% Single rooms)	294	7				Yes	Refer to NA-XX XX-SK-AS-400- 100		Revised sketch prepared to indicate minimum room size NA can achieve is 16.52m2 (max 17.11m2). No rooms below briefed area
Patients en-suite wc & wash double assist	18	4 5	81.0	) (as per HBN 00-02)									
Sub-Total			378.0		379.	5 1.5							
Treatment Area				(									
Day bed area - 3 recliners/trolleys ensuite to day bed area - shower/wc/whb	3	13.5		area below brief	26		-138	-34,1%	no	Yes	Yes	No/Yes	We need to redesign the reception, nurse base area to accommodate the Wait, which needs to be moved in order to provide the required clinical space.
		40		· · · · · · · · · · · · · · · · · · ·									
Treatment Rooms with Prep Area (Biopsy, procedures etc)	4	16.5		2 of 4 below brief area	64	6	-1.4	-2.1%	yes	Yes	Yes	No/Yes	We need to redesign the reception, nurse base area to accommodate the Wait, which needs to be move in order to provide the required clinical space.
Clean Utility & Prep Room	1	12 0	124		10			-11.7%		Yes	Yes	No/Yes	Disposal Hold above area; area to CU can be increased if required
Procedure Room	1	13.5	13 !	5	10			11110		100	100		
Clinical Investigation Room (single sided consult / exam)	1	13.5	13.5	5									
Sub-Total					133.	7 -16.3							
Patient support facilities			0.0										
Interview/sitting room 5 places	1	9.0			10	.7							
Resuscitation trolley parking bay. 1 trolley	1	2.0	2.0	D	1	4	-0.6	-30,0%	no	Yes	Yes	NoMes	Corridor can be reduced and/or riser size slightly adjusted if required
Pantry/Beverage making area	1	12 0	ST HE		11	1	-0 9	-7 5%	yes	Yes	Yes	No/Yes	Disposal Hold above area; area to CU can be increased if required
Ward Food trolley parking bay	- 1	1.5	1. 31	9	1	1	-0.4	-26,7%	по	Yes	Yes	Norres	Corridor can be reduced and/or riser size slightly adjusted if required
Wheelchair bay	1												
Nurses Station	া	8.0	8.0										
Touch Down Spaces	4	2.0		(as per HBN 04-01)	4	8	-3 2	-400%	no	Yes	Yes	Norres	Touchdown bases are required to be smaller to ensure all bedrooms are 16.5m2 minimum
Sub-Total		-	44.5	5	42	.6 -1.9							

18/12/2009

A51115531

#### DERMATOLOGY WARD

Number of Beds Percentage Single Rooms		18 100%										
Description	Qty	Unit Area m²	Total Area m²	Comments	BE	DIFFERS	Room Area shortfall	Can area variance be explained		to be	Will more area be required/can shortfall be	BE comment
							% sqm target	by design		planning stage	designed out?	
Backup storage			0.0									
Linen trollev parking bay	1	1.5	1.5	5		2.6						
Clinical supplies trolley	8	1.5							Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required Corridor can be reduced and/or riser size slightly
Clinical Store/Controlled drug Cupboard	3	1.5	1.5						Yes	Yes	No/Yes	adjusted if required
	1 5											Disposal Hold above area; area to CU can be
Large equipment store		7.5				58	-1 7 -22 7%	no	Yes	Yes	No/Yes	increased if required
												Corridor can be reduced and/or riser size slightly
					01				Yes	Yes	Norres	adjusted if required
Sub-Total			12.0			11.3 -0.7						

18/12/2009

#### DERMATOLOGY WARD

Number of Bea Percentage Single Room	-		8 0%		
Description	Qty	Unit Area m²	Total Area m³	Comments	BE
Utilities		_	0.0		
Dirty utility/Sluice/Test Room - small	1	65	65		6.9
Dirty utility/Disposal hold	1	8.0	8.0	Interim Disposal Hold on Ward	206
Cleaners room	3	7.0			59
WC/WHB - type 1	1	2 0	2 0		
Switchgear cupboard	3	1.0	1.0		
Sub-Total			24.5		40.2
Office and administration services		-	0.0		
Reception / Clerk: 1 position open to corridor	1	6.0	6 0		9.0
Office - 1 position + meeting area	1	12.0	12 0		
Charge Nurse/Sister's Office	1	9,0	9.0		- 0
Printer/IT/Admin Store Room	3	6 0			4.0
Waiting Area 3 places	1	4.0	4.0		10 7
Sub-Total			37.0		44.7

DIFFE	ERS	Room shor sqm		Can area variance be explained by design tolerance?	room in	to be	shortfall be	BE comment
9								
6								Space adjacent to Cleaners Room to increase size if
9		-1.1	-15.7%	no	Yes	Yes	No/Yes	required
2	15.7							
0								
								Socialisation Space is above area; move wall to
0 7		-20	-33 3%	no	Yes	Yes	No/Yes	increase area of Store if required
.7	7.7							

#### DERMATOLOGY WARD

Percentage Single Rooms		1	8 0%										
Description	Qty	Unit Area m²	Total	Comments	BE	DIFFER	s	Room Area shortfall	Can area	Can NA plan	to be	Will more area be	BE comment
								% sqm target	variance be explained by design tolerance?	room in	determined at RDS/1:50 planning stage	required/can shortfall be designed out?	
Essential Complementary Accomodation								Sqiil inger	totoraneor				
Assisted Bathroom	2	16.0		1 of 2 below brief area									
Sub-Total			32.0		32.6		0.6						
Additional Accomodation and Services													
Additional Accomodation and Services Socialisation Space Medical Hot Desking (2 Places)	1	18.0 10.0			20.8			-0.8 -8.0%		Yes	Yes		Socialisation Space is above area; move wall to increase area of Hot Desk
Socialisation Space Medical Hot Desking (2 Places)	1					2	2.0	-0.8 -8.0%		Yes	Yes		
Socialisation Space	1				9.2	2	2.0			Yes	Yes		
Socialisation Space Medical Hot Desking (2 Places) Sub-Total	1		28.0		9.2 30.0	2				Yes	Yes		
Socialisation Space Medical Hot Desking (2 Places) Sub-Total Total net	1		28.0		9.2 30.0	2				Yes	Yes		
Socialisation Space Medical Hot Desking (2 Places) Sub-Total Total net Planning	1 1 5% 3%		28.0 706.0 35.3		9.2 30.0	2				Yes	Yes		
Socialisation Space Medical Hot Desking (2 Places) Sub-Total Total net Planning Sub-Total			28.0 706.0 35.3 741.3		9.2 30.0	2				Yes	Yes		Socialisation Space is above area; move wall to increase area of Hot Desk

Number of Beds Percentage Single Rooms		-	26 1								
scription	Qty	Unit Area m'	Total Area n		BE	DIFFERS	Room Area shortfall	Can are Varianco explaine	d room in	uss Rusriov	Will more area be Ist required of can BE comment ) shortable designed
							ngm % targo	by desig	in area	e planning stago	j out?
arte facilities							=qm > (a) 00	10:0:100	97		
Ite single bedream (incl family & clinical port space)	26	16.5	429	0							
port speces white en-suite with chamilered shower as	-										
HBN 00-02	26	45	117	0							
ib-Total			548	0	593.6	47.6					
tient support facilities			0	0							
Thursdammation (or treatment) toom		16 5									
anvew/sating room 5 places		9.0		0	15.0		-0.7 -4.29	yes.	yes	yes	designed outino issue
sunctation boley parking bay 1 trolley		20									
			-								
ntry/Beverage malong area - Regen & ash Up		26.0			24.1		-1.7 -6.51	yes	yes	743	designed out no issue
rd Food trofley parking bey		1.6		0							
eelchair bay		4.0		0							
Thes station	-	80		0							
ich down spaces		20	e	O bilder has provided 5 - ( as per HBN04-01)							
ib-Total			76	5	78.4	1.9					
ckup storage	_	-	0	0	-						
nen tolley parking bay		15			_						
inical supplies trolley		15	1	5	_						
inical Stone/Controlled drug Cuoboard		1,5		not provided by telder	0.0		-1.6 -100.01	50	yes	Aux	designed out need to add room
een Utility Room edicines Maracement Room		12.0	12 14								
sepriteri slore		60		0							
ib-Total					37.2	-1.3					
					51 4	- ( , a					
//t/es ty utility/sluice/test room - small	-	6.5	0	0							
ty durity states to strong a strong											
ty utity/Disposal hold	-			Interim Disposal Hold on Ward	- 61		-1.9 -23.81	no	1	yes	designed out
Ashers toom		70		a							
C/WHB - type 1		20		0							
					-						
ub-Total	_		24		24.6	0.1					
flice and administration services				0							
Mice and meeting area 1 place	-	12.0		0							
harpe Nurse/Sisters office		90	9	0							
mter/T/Admin Store room	1	60		o							
/siting area 5 places - opposite reception		160	16	0							
enti Lideornal W/C					47						
ib-Yotal			51	0	56.0	5.0					
ther & Shared Accommodation	-	1									
sisted Bathroom	1.00	16-0	16	0							
mittar Room / Meetings / Heath	1.00	30 0					27 10.01	110.5	110.0		Designed out no
sucebon edimal hot desking (2 places)	1.00			0	29.3		-3.7 -12.3	Ad2	142	200	Issue
ortalabors x2	1.00	0 80	) 8	10							
ealerg soace	3 00										
toosal hold & recycling point of Change WCs, Showers & Lockers -	1 00	0 8 0		0							
Ae -			12	0							
all Change, WCs Shawers & Lockers -			22	:0							
main			1								
b-Total					129.2	-0.8					
ditional Allowence											
rapy Space on or Immmediately adjac	ent to wa	rd.									
Bath Room & WC	1 00		11								Designed out no
erapy Area	1.00	55.0			53.3		-1.7 -2.11	yos	yes	yes	Issue
erapy Store	1,00	125	28.6		8.2		-2.8 -23.3			yes	Designed out no Issue
17463A								- ,	1		
ib-Total			80	0	75.5	-4.5					
N net	-	_	940	6	994.6	48.0			_		
ລາກກ່ອງ	5.9	3	47		p.94.0	40.0		-			
ub-T Total			993	8							
igneering reliation	3%		29	8							
						<					

4	\51	11	55	31
	101	_		<u> </u>

#### RENAL WARDS & MAIN DEPARTMENT

Total Bed Numbers = 80 NB: All beds are to be plumbed for haemodialysis

Number of Beds Porcentage Single Rooms		2	2 0%	2 No 22 Bed Wards to be Provided									
Description	Qty	Unit Area m <sup>‡</sup>	Total Area m³	Comment	BE	DIFFERS	Room short		Can area variance be explained	Can NA plan functional room in	RDS/1:50	area be	BE comment
Bod area facilitios							sam	% target	by design tolerance?	this area	planning stage	designed out	
Bog area facilitios	-		100										
Acute single bedroom (incl family & clinical support space)	22	16,5	363 (	17 of 44 rooms below bre! area - only 43 rooms provided - (100% Single rooms)			-21			Yes	Refer to NA- XX-XX-SK-AS 400-100	No/Yes	Revised sketch prepared to indicate minimum room size NA can achieve is 16.52m2 (max 17.1 1m2). No rooms below briefed area. All 44 Bedrooms have been provided - there is 1 xmlssing Bodroom in the Higher Acuity Ward
Patients en-suite wc & wash double assist	22	4.5	99.0	(as per HBN 00-02)									
additional waiting area					14.0								Waiting and Reception areas need to be reviewed. BE proposed design has flexible bedrooms between 16xBed Ward and 22xBed Wards. We believe this could lead to some sharing of support facilites, which needs to be reviewed and agreed during the Design Development Stage
additional reception					83								Waiting and Reception areas need to be reviewed. BE proposed design has flexible bedrooms between 16xBed Ward and 22xBed Wards. We believe this could lead to some sharing of support facilites, which needs to be reviewed and agreed during the Design Development Stage
Sub-Total	244-11		40		439.5								agreed during the besign bevelopment orage
	_												
Patient support facilities Consulting/examination (or treatment) roor	- 1	16.5	16.5										
Quiel sitting space / Additional Social Space	3	9.0		not provided by bidder	0.0		-90	-100.0%	no	Yes	Yes	No/Yes	The end of the Wards can be used as 'break-out' spaces with seating provided and views out. This will provide 2x7.5m2 sitting areas
Interview/sitting room 5 places	1	9.0	9.0	)									
Resuscitation trolley parking bay: 1 trolley	1	2.0	1		12		-0.6	-30.0%	no	Yes	Yes	NorYes	Corridor can be reduced and/or riser size slightly adjusted if required
Pantry/Beverage making area		12.0	1 180		11.1		-0.9	-7 5%	¥85	Yes	Yes	No/Yes	Disposal Hold above area; area can be increased if required
Ward Food trolley parking bay	1	1.5	1.5	j					/				
Wheelchair bay		4 0											
Nurses Station	3	8.0	8.0		106								
Touch Down Spaces	4	2.0	8.0	8 provided by bidder all below brief area - 2 wards allowance									Touchdown bases are required to be smaller to ensure all bedrooms are 16.5m2 minimum
Sub-Total			70.0		98.2	28.2							
000 10101			70.0		30.4	20.2							

#### RENAL WARDS & MAIN DEPARTMENT

Total Bed Numbers = 80 NB: All beds are to be plumbed for haemodialysis

Number of Beds Percentage Single Rooms			2 0%	Provided								
Description	Qty	Unit Area m³	Totai Area m²	Comment	BE	DIFFERS		by design	room in	Functionality to be determined at RDS/1:50 planning stage	yyiii more	
Backup storage		_					sqm %targe	t tolerance?		orago		
Linen trolley parking bay	. 1	1.5	1.5									
Consumables Store	1	14.0	14.0									
Clean Utility Room	1	12.0	12.0									
			5.0	Plumbed Storage for Dialysis								
Equipment store	.1	50		Machines								
Mobile equipment bay	1	40	4.0									
additional												
admin slore					5	1						NOTE: These need to be reviewed and the space can be allocated to missing rooms/area shortfalls
clinical supplies trolley					1	4						NOTE: These are previded as part of the Generic Ward Template. BE Includes for this area as it is assumed as required.
clinical store/controlled drugs cupboard						4						NOTE: These are provided as part of the Generic Ward Template. BE Includes for this area as it is assumed as required.
Sub-Total			36.5		41	.9 5.4						
		_										
Utilities	.1											
Dirty Utility/sluice/Test Room - small	1	6.5	6 5		6	9						
min alternative states	1	8.0	8 0	Intenm Disposal Hold on Ward	20	-						
Dirty utility/Disposal hold Cleaners room		7.0	7.0		20	0						
Staff wc & wash Ambulant user	- 2	2.0										
Switchgear cupboard		1.0										
additional		1.0	10									
staff wc					2	4						NOTE: These need to be reviewed and the space can be allocated to missing rooms/area shortfalls
shower					4	3						NOTE: These need to be reviewed and the space can be allocated to missing rooms/area short/alls
WC					3	2						NOTE: These need to be reviewed and the space can be allocated to missing rooms/area shortfalls
Sub-Total			24.5		38							
Office and administration services												
Reception / Clerk - 1 position open to com	1	6.0										
Office - 1 position + meeting area	1	100.00										
Charge Nurse/Sister's Office		9.0										
Printer/IT/Admin Store Room	1	60 40		Opposite Reception office								
Waiting area: 3 places		40	40	Chhoale Herenion ounce								
additional wc					3	2						NOTE: These need to be reviewed and the space can be allocated to missing rooms/area shortfalls
Sub-Total			37.0		47							-
Total net			630.0		665	.1 35.1						
Planning	5%		31.5		005	35.1						
Sub-Total	370		661.5									
Engineering	3%		19.8									
Circulation	31%		205.1									
Total			886.4									

A51115531 Renal Wards

# Page 62

#### RENAL WARDS & MAIN DEPARTMENT Total Bed Numbers = 80

NB. All beds are to be plumbed for haemodialysis

Number of Beds Percentage Single Rooms				2 No 22 Bed Wards to be Provided								
Description	Qty	Unit	Total	Comment	BE	DIFFERS	Room Area shortfall	Can area variance bo explained by design	room in this area	elanias	vvill more	
Additional Space To support both 22 bo	od wards:						sqm % terget	tolerance?				
Major General Storage for Department Workstations (6 x clinical)	1	31 0 24 0			0	0	-31.0 -100.0% -6.1 -25.4%					Circulation provision either side of the FM Bridge to be reviewed - the area adjacent to the Multi-Function Pod equates to 60m2. This area could be utilised to provide some/all of the shortfalls in Storage.
Sub-Total	OF ECTIV		55.9	·	17.	9 -37.1						
Total net		F I	55.0	0								
Planning	5%		2.8									
Sub-Total			57.8									
Engineering	3%		1.7									
Circulation	31%		17.9									
Total		19	77.4				-68.6 -89%	8				

#### 16 Bed Ward & Day Unit

Number of Beds		1	6			
Percentage Single Rooms		10	0%			
Description	Qty	Unit Area m <sup>2</sup>	Totat Area m²	Comment		
Bod area facilities						
Acute single bedroom (incl family & clinical support space)	16	16.5	264 0	4 of 16 below brief area -(100% Single rooms)		
Patients en-suite wc & wash double assist	16	4.5	72 0	(as per HBN 00-02)		
Quite sitting space / Additional Social Space	1	9.0	9.0		12.7	
Sub-Total			345.0		360.7	15.

Day Assessment & Treatment Area						
Minor Procedures & Treatment Room (incl prep)	a,	21,0		NB: Air handling & Gases required	20.9	
Consult Exam Room	3	16.5	49 5			
Waiting Area	1	12 0	12.0			
4 Day Trolley Spaces	3	13.5	- Base	not provided by bldder - 2 sided glass cubicles, open from	50.8	
Patients en-suite assisted shower, wc & wash		4.5	11	not provided by bidder	5.0	
Staff Base	1	8.0		not provided by bidder	10.5	
WC - Wchair	1	4.5	4 5			
Sub-Total	100		1953-5		87.0	-66.5
Inpatient Dialysis Centre				Supervised area for inpatients		
Dialysis Stations	4	13.5	54.0	2 sided glass cubicles, open front		
Sub-Total			54		54.9	0.9

			Yes	Refer to NA- XX-XX-SK-AS 400-100	No/Yes	Revised sketch prepared to indicate minimum room size NA can achieve is 16.52m2 (max 17.11m2).
-0.1	-0.5%	yes	Yes	Yos	No/Yes	
-3 2	-5.9%	no	Yes	Yes	No/Yes	Room provided (No. RENW-082) at 50,8m2. Adjacent room oversized, room can be increased by 3.7m2
0525	11.1% 31.3%	no no	Yos Yes	Yos Yos	No/Yes No/Yes	Room provided (No, RENW-200) at 5.0m2. Room provided (No. RENW-202) at 10.5m2.

#### NSGH - Adult Hospital

#### RENAL WARDS & MAIN DEPARTMENT

Total Bed Numbers = 80

NB All beds are to be plumbed for haemodialysis

Number of Beds Percentage Single Rooms				2 No 22 Bed Wards to be Provided									
Description	Qty	Unit Area m²	Total	Comment	BE	DIFFERS	Room sho		Can area variance be	Can NA plan functional	Functionality to be determined at RDS/1:50	Will more area be required/can	BE comment
									explained by design	room in this area	ntanning	shortfall be designed out?	
Patient support facilities							sqm	% targot	tolerance?				
Consulting/examination (or treatment)			IL TEL										
room		16.5			16 (		-0 5		, -	Yes	Yes	No/Yes	
Interview/si fing room 5 places	1	9,0		not provided by bidder	10.	1	1,1	12.2%	no	Yes	Yes	No/Yes	Room provided (No. RENW-193) at 10.1m2.
Resuscitation trolley parking bay: 1 trolley		2.0	2.0										
Paniry/Beverage making area	1			-	11.	4	-06	5.0%	ves	Yes	Yes	No/Yes	
Ward Food trolley parking bay		1.5			1				,				
				only 2 provided by bidder - (as									
Touch Down Spaces	3	2.0		per HBN 04-01)	2.	0	-4.0	-66 7%	по	Yes	Yes	Norres	Additional Touchdown to be added
Sub-Total			47.0		82.	3 35.3							
Backup storage													
Linen trolley parking bay Clean Utility Room	1	2 5 12 0		not provided by bidder	0.			-100 0% -11 7%		Yes Yes	Yes Yes	No/Yes No/Yes	BE proposed design has flexible bedrooms between 16xBed Ward and 22xBe Wards. We belleve this could lead to some sharing of support facilites, which needs to be reviewed and agreed during the Design Development Stage
Consumables Store		12.0		not provided by bidder Plumbed Storage for Dialysis	0.	0	- 12.0	-100 0%		Yes	Yes	No/Yes	BE proposed design has flexible bedrooms between 16xBed Ward and 22xB Wards. We belleve this could lead to some sharing of support facilites, which needs to be reviewed and agreed during the Design Development Stage
Equipment store		50	50	Plumbed Storage for Dialysis Machines	-								
Mobile equipment bay		4.0	4.0	)									2xprovided - omit 1 of these @5.6m2 and use for missing Storage
Sub-Total					21.	4 -14.1							
Utilitios		1		co-locate with day unit	1								
Cundes													
Dirty utility/disposal hold	1	8.0		Interim Disposal Hold on Ward									
Cleaners room		7.0			1								
Staff wc & wash: Ambulant user		2.0											
Switchgear cupboard	- 1	1.0	1.0										
Sub-Total			18.0		24.	0 6.0							
OMING A REPORT OF THE REPORT O													
Office and administration services		-			-								
Reception / Clerk - 1 position open to		6.0	6.0										
corridor		6.0											
Office incl meeting area		1 12.0											
Printer/IT/Admin Store Room		60											
Waiting area 3 places		4.0	4.0	Opposite Reception office	+								
Workslalion Area + Case Notes: 3 Person		1 15.0		not previded by bidder	0	0	-15.0	-100.0%		Yes	Yes	No/Yes	Room provided (No. RENW-175) at 12.2m2.
Sub-Total			43.0		28.	3 -14.7							
000.100			~3.0		20.	· · · · · · · · · · · · · · · · · · ·							

#### NSGH - Adult Hospital

#### RENAL WARDS & MAIN DEPARTMENT

Total Bed Numbers = 80 NB All beds are to be plumbed for haemodialysis

Number of Bec Percentage Singla Room			22 )0%	2 No 22 Bed Wards to be Provided									
Description	Qty	Unit Area m²	Total Area m²	Comment	BE	DIFFERS	sho		Can area variance be explained by design tolerance?	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage	area ho	
Other & Shared Accommodation		-			=1								
Staff / Nurse Bases	2	2 5.0	10.0	bonly 1 provided by bidder									
Sub-Total		<u> </u>	10.0		11.6	1.6							
Other Support Acommodation		1	-										
Equipment Store		1 16.0		not provided by bidder	0.0		-16 0	-100.0%		Yes	Yes	No/Yes	1 additional equipment bays @5.6m2 to be used for missing Storage. Utilise area to back of Mech Risers for additional Renat Ward Storage. 2xareas @25m2 potentially viable spaco
Sub-Total			16.0		0.0	-16.0							
Total net		1	722.0	1	670.2	-51.8	-512	-7%					
Planning	5%		36.1										
Sub-Total			758.1										
Engineering	3%		22.7										
Circulation	31%		235.0										
Total			1015.5	8									

#### 20 Bed Higher Acuity (Level 2 Ward)

Number of Beds Percentage Single Rooms			0%		
Description	Qty	Unit Area m²	Total Area m <sup>2</sup>	Comment	
Bed area facilities			-		
Single Room bed area	20	20 0	496.0	only 19 rooms provided by bidder 9 below briet area	387
Gowning lobby: single bedroom	2	5.0	10.0	4 provided by bidder	
Patients en suile wc & wash double assist	12	4 5	54.0	14 provided by bidder -(as per HBN 00-0 2) These are to be associated with single rooms with gowning lobbies and 8No rooms	
Shower / WC - Assisted	2	7.0	14,0	To support rooms without en- suites	
Staff Meeting / Interview	1	16.0	18.0		14
Communications / Staff Base	2	80	10,0	only 1 provided by bidder	7
Sub-Total			510.0		513

		Yes	Yes	No/Yes	BE have provided 14 with Ensuites - the omission of one of the Showers (RENW006) would provide the area for the missing adjacent to the oversized Bedroom (RENW-005). Total area available = 40m2
		Yes	Yes	NorYes	BE have provided 14 with Ensuites - the omission of one of the Showers (RENW006) would provide the area for the missing adjacent to the oversized Bedroom (RENW-005). Total area available = 40m2
-15 -94% -87 -544%	ves no				2x Staff Bases have been provided, 1@ 7.2m2, one @4.5m2,

3.6

#### RENAL WARDS & MAIN DEPARTMENT

### Total Bed Numbers = 80

NB All beds are to be plumbed for haemodialysis

Number of Beds Percentage Single Rooms			22	2 No 22 Bed Wards to be Provided								
Description	Qty	Unit Area m²	Total Area m <sup>a</sup>	Comment	BE	DIFFERS	Room Area shortfall	Can area variance be explained	Can NA plan functional room in	Functionality to be determined at RDS/1:50 planning	Will more	BE comment
					_		sqm % targe	by design tolerance?	this area	stage	designed out?	
Entrance/Reception/Administration facilities												
Reception desk/office_2 places	1	12.0	12.0	nol provided by bidder - Adjacent to entrance	_	0.0	-12 0 -100 09	6				BE propose to utilitise the Core A Shared Wait @ 20m2 and the DisWC @6m2 26m2
Visitors sitting & waiting room (with beverages)	1	15.0	16.0	not provided by bidder		0,0	-15.0 -100.0%	6				BE propose to utilise the Core A Shared Wait @ 20m2 and the DisWC @6m2 26m2
Visitors wc Disabled/ wheelchair user		4 5	1.95	not provided by bidder		0.0	-4.5 -100.05	6	Yes	Yes	No/Yos	Male & Female WC areas are provided in Core A, which equates to 2xareas @9m2. Whole area needs to be re-dosigned to share facilities where possible
Telephone area: single booth; low height	1	2 0		not provided by bidder	_	0.0	-2 0 -100 0%	0	Yes	Yes	No/Yes	Male & Female WC areas are provided in Core A, which equates to 2xareas @9m2. Whole area needs to be re-designed to share facilities where possible
Sub-Total			33.5		1	5.8 -17.7						
Utility/clinical area support facilities												
Clean utility		14 0	14.0									
Status laboratory		8.5	8.9	not provided by bidder		0 0	-8.5 -100.0%	4				Circulation provision either side of the FM Bridge to be reviewed - the area adjacent to the Multi-Function Pod equates to 60m2. This area could be utilise to provide the missing room.
Dirty utility with unne testing	2			1 of 2 below brief area		00	10.0 1100.07	÷.				to provide the massing room
Staff wc & wash Ambulant user		2.0										
Housekeepers (cleaners) room		70										
Patients panliv		12.0	12.0									
Sub-Total			67.5		6	7.0 .0.5						
Office and administration services												
Relatives Rooms	2			2 of 2 below brief area	2	7.1			Yes	Yes	No/Yes	Area provided is adequate to be functional
Charge Nurse/Sister's Office		9.0	9.0									Nurse Station/Reception (RENW-053) @ 15.8m2 can be utilised for office spac
Flexible office accomodation (6 spaces)		24.0	24.5	not provided by bidder		0 0	-24.0 -100.09	la				if Reception moved to Core A. Cleaner could be shared from FM cores which would provide additional 9m2
Administration store room		2.0	2.0		-	0 0						

## Page 66

#### RENAL WARDS & MAIN DEPARTMENT

Total Bed Numbers = 80 NB: All beds are to be plumbed for haemodialysis

Number of Beds		2	2	2 No 22 Bed Wards to be Provided									
Percentage Single Rooms		10		TOVIDED									
Description	Qty	Unit	Total Area m²	Comment	BE	DIFFERS	Room . short		Can area variance be		Functionality to be determined at RDS/1:50	area be required/can	BE comment
							\$0m	% taroot	explained by design tolerance?	room in this area	planning stage	shortfall be designed out?	
Storage/holding facilities	-	-					oqm		tolerancer				
Bulk supplies store	1	15.0	15.0		16,	0							
Clinical equipment store	1	18.0	18.0		25.	0							
Linen bay/store	2			only 1 provided by bidder		-							
Ready use medical gas cylinders store	1				3	7	-0.3	-7 5%	yes	Yes	Yes	No/Yes.	
Mobile equipment bay	,	4.0		not provided by bidder	0	D	-4 0	- 100 0%					2xwheelchair bays equating to 5.3m2 have been provided but not required in t brief. BE propose to use this area for the Mobile Equipment Bay
Cardiac arrest/emergency trolley bay	2	1.0	2.6	not provided by bidder	0	D	-2.0	- 100 0%					Circulation provision either side of the FM Bridge to be reviewed - the area adjacent to the Mutti-Function Pod equates to 60m2. This area could be utilise to provide some/all of the shortfalls in Storage.
Sub-Total			48.0		52.	4 4.4							
Engineering facilities	1	1											
Switchgear cupboard		20	2.0		-								
Battery/UPS room	,	90	11.5	not provided by bidder	0	D	-9 0	- 100 0%		Yes	Yes	No/Yes	Circulation provision either side of the FM Bridge to be reviewed - the area adjacent to the Multi-Function Pod equates to 60m2. This area could be utilise to provide some/all of the shortfalls in Storage.
Sub-Total			11.0		2.	00							
Total net	I		733.0		687.	1 -45.9	.91.5	-12%					
Planning	5%		36.7										
Sub-Total			769.7										
Engineering	3%		23 1										
Circulation	31%		238.6										
Total			1031.3										

BE proposed design has flexible Renal bedrooms between the 16xBed Ward and 22xBed Wards. There is currently 1xBedroom missing from the 20xBed Higher Acuity Ward which will need to be accommodated. This can be reviewed at the Design Development Stage. In addition, as we have located this within the Generic Ward Template, it benefits from the Shared Support Facilities, which will provide some flex for moving some support out of the main department to accommodate some of the missing rooms.

#### HAEMATO-ONCOLOGY WARD

NBI 3 Beds are to be plumbed for haemodialysis

NB: All bedrooms will require positive pressure

Number of Beds Percentage Single Rooms		14+ 4 day 10											
Description	Qty	Unit Area m <sup>a</sup>	Total Area m*	Comment	BE	DIFFERS	shoi		Can area variance be explained by design	Can NA plan functional room in this area	planning	Will more area be required/can shortfall be designed out?	BE comment
Bed area facilities			_				sqm	% target	tolerance?		stage		
Acute single bedroom (incl family & clinical support space)	14	16 5	\$94.5	6 of 14 below brief area - Positive Pressure						Yes	Refer to NA- XX-XX-SK-AS- 400-100	No/Yes	Revised sketch prepared to indicate minimum roc size NA can achieve is 16.52m2 (max 17.11m2). No rooms below briefed area
Patients en-suite wc & wash double assist	14	4 5	63.0	(as per HBN 00-02)									
Sub-Total			294.0		307.5	13.5							
Day Case Zone													
Day Case Room - Recliner Space	4	13.5	M.CH	4 of 4 below brief area	48.0		-6.0	-11.1%	ves	Yes	Yes	No/Yes	We have provided adddiitonal rooms to the Brief such as the adjacent Store. This can be reduced 3m2 and the required space can be added back in the Day Case Recliner Rooms
Staff Base	1	3.0		and the second			100		/	165	163		
Freatment Room	1	16.5			16,1		-0 4	-2.4%	yes	Yes	Yes	Norres	
WC - Wchair	1	4.5	4.	5									
additional store					9.0								This is additional to the Brief
Sub-Total			78.0		75.0	-3.0							
Patient support facilities		1			1								
Consulting/examination (or treatment) room	1	16 5		pentamidine treatment	16.1		-0.4	-2 4%	yes	Yes	Yes	No/Yes	
Trealment Room	1	16.5	16.5	Intrathecal chemotherapy	18.4								
Interview/sitting room	1	9.0	9.0										
Resuscitation trolley parking bay 1 trolley	1	20	-11		1.4		-06	-30 0%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Pantry/Beverage making area	1	12.0			11.1		-0.9	-7 5%	yes	Yes	Yes	No/Yes	Disposal Hold above area; area to CU can be increased if required
Ward Food trolley parking bay	1	1.5	1		1.1		-0 4	-26 7%	no	Yes	Yes	No/Yes	Corridor can be reduced and/or riser size slightly adjusted if required
Wheelchair bay	1	4.0	4.0	2 @ 2 3 provided by bidder									
Nurses Station	4	8.0	8.0										
Touch Down Spaces	4	2.0		4 of 4 below brief area(as per HBN 04-01)	4.0		-40	-50.0%	no				Touchdown bases are required to be smaller to ensure all bedrooms are 16.5m2 minimum
additional wheelchair bay					4.6								This is additional to the Brief
Sub-Total					72.3	-5.2							

#### HAEMATO-ONCOLOGY WARD

NB 3 Beds are to be plumbed for haemodialysis

NB: All bedrooms will require positive pressure

Number of Beds

14+ 4 day recliners

Percentage Single Rooms		10	0%										
Description	Qty	Unit Area m <sup>2</sup>	Totat Area m <sup>a</sup>	Comment	BE	DIFFERS		m Area ortfall	Can area variance be explained	Can NA plan functional room in	determined at RDS/1:50	Will more area be required/can shortfall be	BE comment
							sqm	% targe	by design tolerance?	this area	planning stage	designed out?	
Backup Storage		1.5											
Linen Irolley parking bay		15	1.5		2	6							Corridor can be reduced and/or riser size slightly
Clinical supplies trolley	1	1,5	10		1	4	-0 1	1 -6 79	yes				adjusted if required
Clinical Store/Controlled drug Cupboard		1.5			. 1	4	-0	-6 79	yes				Corridor can be reduced and/or riser size slightly adjusted if required
Clean Utility Room	1	12.0	1. tit 1		10	0.6	-1.4	4 -11 79	?				Disposal Hold above area; area to CU can be increased if required
Large Eqpt Store	à	20.0	100		17	.9	-2	1 -10.59	?				Corridor can be reduced and/or riser size slightly adjusted if required
Sub-Total					33	.9 - <b>2</b> .6							
Utilities													
Dirty utility/Sluice/Test Room - small	1	6.5	6.5		6	59							
Dirty utility/Disposal hold)	1	8.0	8.0	Interim Disposal Hold on Ward	20	0.6							
Cleaners room	1	7.0				5							
WC/WHB - type 1	1	2.0	2.0		3	3 9							
Switchgear cupboard	- 1	1.0	1.0		10								
Sub-Total			24.5		41	.9 17.4	L						
Office and Administrative Services													
Reception - 2 position - open	q	8.0		not provided by bidder - shared 1 between two wards	c	0.0	-8 (	0 -100.09	6	Yes	Yes	No/Yes	There is a shared reception area in Core A. The patients will then move to the dedicated Wait Area on the Ward. This area contains a Staff Base and WC
Office - 1 position + meeting area		12.0	30.1			10	-0.6			Yes	Yes	No/Yes	
Charge Nurse/Sister's Office	24	9.0				2			,				
Printer/IT/Admin Store Room	24					5.8	-0 3	2 -3 39	6 yes	Yes	Yes	No/Yes	
Waiting Area - 5-10 persons	4	16,0	16.0	not provided by bidder - shared 1 between two wards	18	3.2 2.2	2						A separate Waiting Area (NSGH-04-HMOW-002) of 18.2m2 has been provided which is dedicated to this Ward and not shared, In addition to the Shared area in Core A
Sub-Total					44	1.6 -6.4	l.						

#### HAEMATO-ONCOLOGY WARD

NB: 3 Beds are to be plumbed for haemodialysis

NB All bedrooms will require positive pressure

Number of Beds Percentage Single Rooms		14+ 4 day 10											
Description	Qty	Unit Area m³	Total Area mª	Comment	BE	DIFFER	s	Room Area shortfail sqm % large	Can area variance be explained by design t tolerance?	nlan		Will more area be required/can shortfall be designed out?	BE comment
Essential Complementary Accomodation													
Assisted Bathroom	1	16.0	16.0										
Sub-Total			16.0		16.	.1 0	.1						
Additional Accomodation and Services													
Medical Hot Desking (2 Places) additional office	1	10.0	10.0		11								This is additional to the Brief
Sub-Total			10.0										
Total net			587.5		591	.3 3	.8	-25.2 -4%	ş				
Planning	5%		29.4										
Sub-Total			616.9										
Engineering	3%		18 5										
Circulation	31%		191.2										
Total			826.6		101	3					and the second second		This is the BE Total Area

#### WARD SUPPORT CORE

For Floor with 4 wards												
	Qty	Unit Area m²	Total Area m²	Comment	BE	DIFFERS	Room Area shortfail	Can area variance be explained by		RDS/1:50	area be required/can shortfall be	BE comment
							sam % target	design	area	planning stage	designed out?	
Shared Ward Support Facilities							Sum re unger	tororanoor				
Regen Kitchen		30.0	30.0		48 5	18.5						
Allowance for Wash Up	1	12,0	12.0		0.0	- 120			Yes	Yes	Norres	Wash-Up Included within Kitchen Pod, no additiona area required
Disposal Hold & Recycling Point	1	24.0	24.0		26 6	5 26						
Clean Hold					26.6	26.6		_				Note that we added a Clean Hold at 26m2 to ensure the functionality of the FM Strategy
FM Trolley bays	1	6.0	60	allow 4 no. trolleys	44 (	38.6					No. W.	Note that this was NOT on the original Board SOA. We added these to ensure the functionality of the FM Strategy with the robots.
Workstations x 6	1	24.0	24.0	3 @ 11 5 provided by bidder	34 5	5 10 5			Yes	Yes	Norves	Area within one of 3xOffice Pods - area slightly under but 'Pod' can be adjusted to suit
					34 3	0 10 5			res	res	NO/ Ves	Area within one of 3xQffice Pods - area slightly
Medicines Management	1	12.0		not provided by bidder	0.0	-12.0	-12.0 -100.0%		Yes	Yes	No/Yes	under but 'Pod' can be adjusted to suit
Staff WC/wash	3	2.0	60	2/ & 1m	0.0		12.0 100,010		Yes	Yes	No/Yes	
Staff locker room - F	1	24.0	1	100 half height lockers	54 4				Yes	Yes	No/Yes	
Staff locker room - M	1	8.0		20 half height lockers	0.0	.80			Yes	Yes	Norres	
Staff shower	2	4.0	80		0.0	0.8-			Yes	Yes	No/Yes	
Accessible shower / WC	1	4.5	4.5	Includes lockers	0.0	-4.5			Yes	Yes	No/Yes	Area within Staff Change Pod
Cleaners Room	1	7.0	7.0		9.0	2.0						
WC - Wheelchair Visitor	2	4.5	9.0		0.0	.90			Yes	Yes	No/Yes	Note that each Public Core has 1xWheelchair WC - therefore we have provided 2xper floor which will comply with DDA sizes Note that each Public Core has 2xWCs with Lobby
WC/WHB - Visitor	4	2.0	80		0.0	0.8-0			Yes	Yes	No/Yes	therefore we have provided 4xper floor which are larger than Brief
Multi Functional Cluster	व	80.0	80 0	Varies by Floor it may be type A. B. C or D see below	84.5	5 45						
Sub Total			262.5		328.	66.2						
Total Net	-		262.5									
Planning	5%	,	13.1									
Sub-Total			27 5 6									
Engineering	3%		8.3									
Circulation	25%	1	68 9									
Total			352.8				-12 -3%					

Multi Functional Cluster A (1no)		10.0	10.0	
Seminar / Education Room	:1	40.0	40.0	
Therapy Room (ADL beverage assessment)	1	12.0	12.0	
Bulk Fluids & Clean Dressings etc Store	1	28.0	28 0	
			80.0	

18/12/2009

A51115531

#### WARD SUPPORT CORE

For Floor with 4 wards	<u> </u>				
	Qty	Unit Area mª	Total Area m <sup>3</sup>	Comment	BE
Multi Functional Cluster B (3no)					
Therapy Area and Store	1	80.0	80 0	3 plinths, steps/stairs, table, parallet bars	
			80.0		
Multi Functional Cluster C (2no)					
Seminar / Education Room	1	80.0	80 0		
			80.0		
Multi Functional Cluster D (2no)		1			
Seminar / Education Room	1	40 0	40 0		
Bulk Fluids & Clean Dressings etc Store	1	40.0	400		
	1		80.0		

DIFFERS	Room Area shortfall	Can area variance be explained by design	functional	Functionality to be determined at RDS/1:50 planning	Will more area be required/can shortfall be designed	BE comment
	sqm % target	tolerance?	alea	stage	out?	

#### For Floor with 2 wards

	Qty	Unit Area mª	Total Area m <sup>a</sup>		
Shared Ward Support Facilities					cannot locate on schedule
Regen Kitchen	(1)	240	24.0	)	
Allowance for Wash Up	1	10.0	10.0	)	
FM Trolley bays	1	3.0	3.0	allow 2no. trolleys	
Disposal Hold & Recycling Point	1	16.0	16.0	)	
Seminar / Education Room	1	40.0	40.0	)	
Workstations x 6	1	24.0	24 0	)	
Therapy / AHP / Multi Purpose Assess / Treat	1	40 0	40.0		

Note that we do not have a floor with 2xwards

#### WARD SUPPORT CORE

For Floor with 4 wards					
	Qty	Unit Area m²	Total Area m <sup>a</sup>	Comment	B
Medicines Management	1	12.0	12.0		
Staff WC/wash	3	2.0	6.0		
Staff locker room - F	1	16.0	16.0		
Staff locker room - M	1	6.0	60		
Staff shower	2	4.0	8.0		
Accessible shower / WC	1	4.5	4.5	Includes lockers	
Cleaners Room	1	7.0	7.0		
WC - Wheelchair Visitor	1	4 5	4 5		
WC/WHB - Visitor	2	2.0	4.0		
Sub Total			225.0		
Total Net			225.0		
Planning	5%		11.3		
Sub-Total			236.3		
Engineering	3%		7.1		
Circulation	25%	_	59.1		
Total			302.4		

DIFFERS	Room Area shortfall	Can area variance be explained by	functional	Functionality to be determined at RDS/1:50 planning	Will more area be required/can shortfall be designed	BE comment
	sqm % larget	design tolerance?	area	stage	out?	

18/12/2009

ICU	20 beds (2 "pods" of 10)
HOU (Med & Surgical)	39 beds (4"pods" 3 of 10. 1 of 9)
CCU	20 beds (2 "pods" of 10)
NB - Dialysis plumbing to 5 beds - distribution	ted between ICU and HDU

GLOBALLY SHARED FACILITIES

Description	Qty	Unit Area m²	Total Area m <sup>a</sup>	Notes	BE	DIFFERS	Room short	fall	explained	plan functiona l room in this area	Functionality to be determined at RDS/1:50 planning stage	canshortfall be designed out?	
Combined Entrance/Reception/Administra	ation Faci	lities					oqin		toleraneor				
Combined entrance	1			included in circulation area									see replan as per board comments to review through 1:200 stage
Visitors Foyer	1	-		included in circulation area									21970
Visitors waiting area	1	100.0	100.0		106.7								
visitors wc Disabled/ wheelchair user	3	4.5	13 5	i									
Reception desk/office 8 places	1	40.0			39.2		-0.8	-2.0%	yes	yes	yes	designed out	
Sub-Total			153.5	i	164.1	10.6							
Family Support and Communication													
Area Relatives room	6	14.0	84 (	(May be split into groups)	-								
Relatives wc. Disabled/ wheelchair user	2		1	To be adjacent to relative areas									
Relatives wc: Disabled/ wheelchair user	2	40	910	To be adjacent to relative areas									
Sub-Total			93.0		92.4	-0.6							
Office Area													
Clinical directors office / Manager 1 place	1	14.0	)		137		-0 3	-2 1%	yes	yes	yes	designed out	
Managers office 2 plece	2	13.0											
Consultant Offices - 2 person rooms	7	13.0	91.0										
Clinical staff office/IT resource room 4 blaces	4	24.0		2 of 4 below brief area	92 3		-3.7	-3.9%	yes	yes	yes	designed out	
Outreach office: 4 places		18.0	18.0		19.3		7907	-0.010	900	yes	100	designed out	
Seminar/training room 40 - 45 places		60.0			59.9		-0.1	-0.2%	yes	yes	yes	designed out	
Teaching & research office 2 places, teaching and research stalf	3			)									
Meeting Room/Interview/Relatives room (8		18.0		1									
person)					15.7		-0.3	-1.9%	yes	yos	yes	designed out	
Sub-Total			360.0		360.1	0.1							
500-10(01		2	000,0		000.1	0.1							
Staff facilities													
Staff Lounge (Including pantry area)	1				127 0		-130	-9 3%	yes	yes	yes	designed out	
Staff changing facilities 60 places	1												
Staff changing facilities 160 places	-	70.0			64 2		-5.8	-8 3%	yes	yes	yes	designed out	
Staff shower	8	2.5		only 5 provided by bidder	12.5		-2 5	-16.7%	no	yes	yes	designed out	add shower. (note although one less provided these accommodate real door the 2.0sqm allowance won't therefore although 1 x less they are sized correctly.
Staff wc & wash Ambulant user	15	i 2.0	) 30 (	) only 14 provided by bidder					по	yes	yes	designed out	add shower. (note although one less provided these accommodate real door the 2.0sqm allowance won't therefore although 1 x less they are sized correctly.
WC / Shower / Change - Disabled	2	4.5	5 9 (	)	1								
Sub-Total					275.1	-18.9							
Total Net			900.5	5	891.7	-8.8							
Planning	5%		45 (										
Sub-Total			945										
Engineering	3%		28 4	8									
Circulation	31%		293	L.									
Total		10.1	1267.0	1									

ICU	20 beds (2 "pods" of 10)
HDU (Med & Surgical)	39 beds (4"pods" 3 of 10, 1 of 9)
CCU	20 beds (2 "pods" of 10)
NB - Dialysis plumbing to 5 beds - dist	nbuled between ICU and HDU

#### GLOBALLY SHARED FACILITIES

Description	Qty	Unit Area mª	Total Area m²	Notes	BE	DIFFERS

#### CRITICAL CARE: ICU/HDU (Medical & Surgical) AREAS

Clinical areas					
Critical care bed area single room, Isolation (access via gowning lobby)	10	26 0	- 10 C	10 of 10 under brief area - 2 beds in each of 5 "pods" (Including both ICU "pods")	
Gowning lobby single bedroom	10	7.0	RKO	2 beds in each of 5 "pods" (Including both ICU "pods")	
Single Room/Equivalent bed space	49	26 0	1204.0		1
Patients en-suile wc & wash double assist	8	4.5	36.0	3 of 8 under brief area - (as per HBN 00-02) En-suite to the 6 single rooms with isolation tobbys in HDU "pods" and 2 further rooms in the remaining HDU pod with no associated gowning lobby	
Shower / WC - Assisted	6	7.0	42.0	3 of 6 under bnef area - Aligned to 4 HDU "pods"	
Staff Resource Room	3	11.0	1 15 0	only 2 provided by bidder - 1 per 2 "pods"	
Staff Office / Rest	1	12.0	120	Associated with the 2 ICU "pods"	
Staff WC	6	2.0	12.0	1 per "pod"	
Staff Meeting / Interview	3	16.0	48.0	1 per 2 "pods"	
Communications / Staff Base	6	11.0	66 0	1 per "pod"	
Sub-Total					1

Utility/clinical area support facilities	100		_	
Clean utility	3	14.0	40.0	1 of 3 under brief area - 1 each between 2 "pods"
Status laboratory	3	8.5	100.00	2 of 3 under brief area - 1 each between 2 "pods"
Dirty utility with unne testing	5	12.0		4 of 5 under brief area - 1 each per "pod"
Dirty Utility with unne testing/equipment cleaning	1	18 0		Aligned to remaining "pod" which should be in ICU
Pharmacy Support Area	1	18 0		Specific Client Request Supported By Pharmacy
Blood Bank Fridge Area	۲	6.0	6.0	Located centrally for all Critical care Facilities (Sized for 2 x fndges as required)
Disposal hold	3	15 0		1 of 3 under brief area - 1 each between 2 "pods"
Housekeepers (cleaners) room	3	7.0	21,0	1 of 3 under bnøf area - 1 each between 2 "pods"
Patients pantry & Regeneration Area	2	12.0	24.0	Aligned to 4 HDU "pods"
Store Room	đ	16 0	184	not provided by bidder
Sub-Total			275.5	

Room short		Can area variance be explained by design	I room in	Functionality to be determined at RDS/1:50 planning stage	Will more area be required or can shortfall be designed out?	BE comment
sqm	% terget	tolerance?				
-20,8	-8 0%	yos	yes	yes	designed out	see replan as per board comments to review through 1:200 stage see replan as per board comments to review through 1:200
-4.4	-6 3%	yes	yes	yes	designed out	stage see replan as per board comments to review through 1:200
-64 7	-5 1%	yes	yes	yes	designed out	stage
		yes	?	yes	designed out	see replan as per board comments to review through 1:200 stage
-10 3	-31 2%	no	?	yes	designed out	add room (one was shown in CCU part, but refer to replan for both areas in line with Board comments
-1.0	-8 3%	yes	yes	yes	designed out	

.6	-59.4

0.5

		? These are	3			see replan as per board comments to review through 1:200
-42 0	-100.095	in	yes	yes	designed out	stage
						see replan as per board comments to review through 1:200
-0.1	-0.4%	yes	yes	yes	designed out	stage
						see replan as per board comments to review through 1:200
-4.1	-68%	yes	yes	yes	designed out	stage
						see replan as per board comments to review through 1:200
-0.7	-3.9%	yes	yes	yes	designed out	stage
						see replan as per board comments to review through 1:200
-13	-7 2%	yes	yes	yes	designed out	stage
						see replan as per board comments to review through 1:200
-0.3	-0.7%	ves	yes	ves	designed out	stage
		100	,	,		
		7 Not on				
		original				
-18 0	- 100 0%	schedule	?	yes	?	not on original schedule can try to accommodate in replan.

## A51115531

ICU	20 beds	(2 "pod s" of 10)
HDU (Med & Surgical)	39 beds	(4"pods" 3 of 10, 1 of 9)
CCU	20 beds	(2 "pods" of 10)
NB - Dialysis plumbing to 5 beds - distribute	d between	n ICU and HDU

GLOBALLY SHARED FACILITIES

Description	Qty	Unit Area m²	Totat Area m <sup>3</sup>	Notes	BE	DIFFERS	Room shor	
			and second				sqm	% target
Bulk supplies store	1	95.0	95.0	Based on "Just In Time" supplies delivery Note. It may be necessary to split storage areas to reduce travel distances	847		-10.3	-10 8%
Cfinical equipment store		130.0	150.8	Based on equipment being wall/ceiling mounted as far as possible. It may be necessary to split storage areas to reduce travel di stances.	124 4		-5 6	-4 3%
Equipment Service Room	2	24.0		2 of 2 under brief area				
Equipment Service Room		240			44.5		-3,5	-7.3%
Linen bay/store	6	4.0	34.0	1 of 6 under brief area - 1 each per "pod"	23.0	6	-1.0	-42%
Fumiture store	1	85.0	85.0		88.4			
Ready use medical gas cylinders store	3	4.0	12.2	3 of 3 under bnef area - 1 per 2 "pods"	11.2	2	-0 8	-67%
Mobile imaging equipment bay (x-ray & Ultrasound) with image intensifiers		8.0	32.0	4 of 4 under bnef area - 1 each per ICU "pod", 1 between 2 HDU "pods"	16.0	6	-16 0	-50 0%
Cardiac arrest/emergency trolley bay	6	1.0	6.0	1 each per "poo"				
Sub-Total					398.9	-33.1		
Engineering facilities	1	-						
Switchgear cupboard	3	2.0	6.0	5 provided by bidder	1			
Battery/UPS room	3	9.0		only 2 provided by bidder	14 8	I	-12.2	-45.2%
Sub-Totat			3 3.0		28.4	-4.6		
Total net	1	_			2496.9	-96.6		
Planning	5%		129.7		2430.3	-30.0		
Sub-Total	576		2723.2					
Engineering	3%		81.7					
Circulation	40%		1089.3					
Total		1	3894.1					
CRITICAL CARE: CCU AREAS					Į.			
Clinical areas					1			
Coronary care bed area: single room	20	0 20 0	400.0	All with suitable radiological protection to support emergency pacing				

Room shor sqm		by design	I room in	Functionality to be determined at RDS/1:50 planning stage	Will more area be required or can shortfall be designed out?	BE comment
•10 3	-10 8%	yes	yes	yes	designed out	see replan as per board comments to review through 1:200 stage
-5 8	-4 3%	yes	yes	yes	designed out	see replan as per board comments to review through 1:200 stage see replan as per board comments to review through 1:200
-3,5	-7.3%	yes	yes	yes	designed out	stage
-1.0	-42%	yes	yes	yes	designed out	see replan as per board comments to review through 1:200 stage
-0 8	-87%	yes	yes	yes	designed out	see replan as per board comments to review through 1:200 stage
-16 0	-50 0%	no	?	yes	designed out	see replan as per board comments to review through 1:200 stage

need to review with M&E as these are preferred in plant areas. Design development.

Clinical areas				
Coronary care bed area: single room	20	20 0	400.0	All with suitable radiological protection to support emergency pacing

ICU	20 beds	(2 "pods" of 10)
HDU (Med & Surgical)	39 beds	(4"pods" 3 of 10, 1 of 9)
CCU	20 beds	(2 "pods" of 10)

NB - Dialysis plumbing to 5 beds - distributed between ICU and HDU

#### GLOBALLY SHARED FACILITIES

Description	Qty	Unit Area m <sup>7</sup>	Total Area m <sup>1</sup>	Notes	BE	DIFFERS	Room shor sqm	tfall	explained	plan e function I foom l this are	Functionality to be a determined a n RDS/1:50 a planning stag	Will more area be required or can shortfall be designed out?	
Patients en-suite wc & wash double assist	20	4 5	90 (	as per HBN 00-02)									
Staff Resource Room	1	11.0	11.0		11.1								
Staff Meeting / Interview	1	16.0			8.7		-9 3		7 This is much large on plan than 6.7sqm		yes	designed out	see rebriefed schedule with new rooms and layout.
Staff WC	2	2.0	4.0	One of these toilets should be close to the stalf									
Communications / Staff Base	2	8.0	16.0	moatinnäntaniaiv mom									
Sub-Total			537.0		721.4	184.4							
Hilituteliniani area succest facilities		-											
Hility/clinical area support facilities		17.0	17.0		19.3								
Clean utility / Prep		14.0	17.0		19.3								
Clean utility / Store		8.5	8.5		92								
Status laboratory	-	12.0	12.0		13.8								
Dirty Utility with Unne Testing	+	12.0	12.0		13.8								
Disposal Hold	1	10.0			8 2		-18	-18 0%	no	?	yes	designed out	see rebriefed schedule with new rooms and layout.
lousekeepers (cleaners) room	1	7.0	70		8.6								
Clinical directors office: / Manager 1 place	1	14 0	54.0		12.5		-15	-10.7%	yes	yes	yes	designed out	see rebriefed schedule with new rooms and layout.
Managers office 2 place	3	13.0	13.0		12.0			10 / 10	,	,	yes	actigrice out	
Patients pantry & Regeneration Area	1	12.0	12.0										
allents partity of Regeneration Alea		12.0	12.0		1								
Sub-Total			107.5		113.9	6.4							
Storage/holding facilities		_											
Bulk supplies store		18.0	18.0										
Clinical equipment store	1	20.0	20.0										
Linen bay/store	2	4.0	200	1 of 2 under brief area	83		-1.7	-21.3%	yes	yes	yes	designed out	
Ready use medical gas cylinders store	1	4.0	4.0		00			21010	100	100	105	actigned out	
Nobile imaging equipment bay (x-ray &	1	8.0	8.0										
Ultrasound) with image intensifiers	1												
Cardiac arrest/emergency trolley bay	2	1.0	20										
Sub-Total			60.0		60.9	0.9							
Engineering facilities													
Engineering facilities	-	2.0	2.0										
Switchgear cupboard	1	2.0	2.0		-								
Battery/UPS room	-	9.0	9.0		-								
Sub-Total			11.0		18.0	7.0							
Total net		_	715.5		914.2	198.7	-255 9	-36%			_		
Planning	5%		35.8										
Sub-Total			751 3										
Engineering	3%		22.5										
Circulation	31%		232 9										
Total		_	1006.7										

Can area

by design

% target tolerance?

Will more

area be

required or

can shortfall

be designed

out?

designed out need to review plans to board comment

designed out need to review plans to board comment

designed out need to review plans to board comment

designed out need to review plans to board comment

designed out need to review plans to board comment

designed out need to review plans to board comment

need to review plans to board comment

Can NA Functionality

to be

planning stage

plan

variance be functional determined at

explained room in this RDS/1:50

area

yes

yes

yes

yes

yes

yes

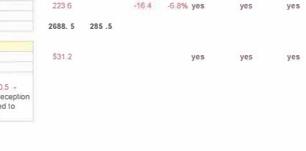
yes

yes

Page 77

**BE** comment

THEATRE BLOCK - 20 THEATRES									
Room Tupo	Quantity	Size	Total	Comments	BE I	DIFFERS		n Area rtfall	Can
Room Type	Quantity	5120	TOTAL	comments		DIFFERS	5110		varia: expl
		M2	M2				sqın	% target	by d toler
Entrance, reception & waiting facilities	with adm	nissions s	uite (AODC	OS Area) Within circulation allowance					
Entrance lobby controlled access	1	20.0	20.0	To support AOOOS admin					
Reception area (Open) Porters Base		6.0		Configured as an "open" area					
Waiting room /lounge (60 places)/Doubles as Shared Seminar		0.0	0.0	Configured as an open area					
Space	1	90.0	90.0	To support AODOS					
Secondary Waiting Areas (M & F)	2	24.0	48.0						
occorrectly training meas (in a r )		210	10 0	For secure storeage of seminar					
Locked store off waiting room/lounge	1	10.0	10.0	eqpt					
Locked area for storeage of patients bags on baggage trolleys off waiting				Space for 2 x "baggage trolleys" in					
room/lounge	1	6.0	6.0	a secure area					
WC & handwash! accessible, wheelchair									
assisted	2	4.5	9.0						
Visitors & patients wc: Ambulant user	4	2.5	10.0						
Consulting examination and changing roo	3	10.0	30.0						
			0.1.20	3 of 13 below brief area - To					
Consulting examination and changing room	13	7.0	1771年1月1日	support AODOS	86 8		-42	-46%	yes
Changing rooms	6	3.5	- 22.0	6 of 6 under brief area -To support AODOS	17 6		-3 4	-16 2%	yes
additional bed wait					126				
additional bed management					50 8				
Sub-Total			341.0	and the second se	440.2	99 2			
Operating theatre suites facilities			-						
Operating theatre general	10	55.0		2 of 10 below brief area					
Operating theatre uttra clean	10			6 of 10 below brief area	540.1		-99	-18%	yes
Control Rooms	2	10.5	21.0	For imaging theatres					
Machine Rooms	2	9.0		To support imaging theatre eqpt					
Anaesthetic room bed space	20	19.0		16 of 20 below brief area	365.0		-15.0	-3 9%	yes
Scrub-up & gowning room 3 places	20	11.0	220.0	only 15 provided by bidder presume 5 shared - May be shared between 2 theatres (But same space required per theatre)					
Preparation room (Daily Use Store) Serv									
	10	10.0	1000	1 of 10 paired exit bays below brief area - May be shared between 2 theatres (But same space required per theatre) This area should include identified "dictation space"					
Exil/parking bay theatre, 1 bed/trolley	20	12.0	240 0	with IT accessi (Assumes 4 "pods" of theatres - 1					
Slore equipment, local to theatre	4			per pod)					
Dirty utility	20	12 0		5 of 20 below bnef area	223 6		-16.4	-6 8%	yes
Sub-Total			2403.0		2688. 5	285.5			
Recovery Area			_		1				
Reception/Recovery bay 1 place	40	13.5	540 0	28 of 40 below brief area	531 2				yes
Recovery room post anaesthetic, 1 place	2	16.5	33.0	Glazed with audio fink					
				4 provided by bidder @ 10.5 - area to support recovery/reception (May be further sub-divided to					
Staff & communication base, open 5 staff	2	20.0	40.0	optimise service delivery)					



#### NSGH - Adult Hospital

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

# Page 78

Clean utility	1	14.0	14.0	May be combined with staff bases								
Dirty utility bedpan disposal & urine test	2	12.0		1 only provided by bidder								
Parking bay resuscitation trolley	1	1.0	2.4	not provided by bidder	0.0		-1.0	-100.0% no	yes	yes	designed out	add room
	1	7.0		not provided by bidder	00			-100 0% no	yes	yes	-	
Cleaners (Housekeeping) room		7.0		not provided by bidder	0.0		-70	- 100 0 % 110	yes	yes	designed out	add room
Sub-Total	-	_	659.0		693.4	34.4						
Support facilities	-											
Dessuers Nume Office 1 staff		12.0		This office should be located within the theatre area as it supports a direct theatre day to day management function								
Recovery Nurse Office 1 staff		12.0	12.0	This onice should be located within								
Theatre Management Office	1	30.0		the theatre area as it supports a This office should be located within the theatre area as it supports a direct theatre day to day	29 1		-0,9	-30% yes	yes	yes	designed out	need to review plans to board comment
Theatre Management Office	1	18.0	18.0	management function	18 3							
Blood bank reingerator bay space	1	6.0		Adjacent to reception/recovery and accesible to all theatres	56		-0.4	-6.7% yes	yes	yes	designed out	need to review plans to board comment
Near patient testing/status laboratory	1	8.5		not provided by bidder - Should be centrally located and aligned to recovery area	0.0		-8.5	-100.0% yes	yes	yes	designed out	add room
Utility: cleaning & store room, flexible end	1	24 0		Shared with endoscopy	22 6		-1.4	-5 8% yes	yes	yes		need to review plans to board comment
Service room: equipment	1	21.0	21.0	For Med Physics use (Assumes 4 "pods" of theatres - 1								
Parking bay mobile x-ray & ultrasound ur	4	5.0	20.0	per pod) NB This space should be configured so as to be in the correct proportions for the eqpt in use								
				onty 2 provided by bidder - (Assumes 4 "pods" of theatres - 1								
Parking bay resuscitation trolley	4	1,0		per pod)								
				not provided by bidder - (With wall hung dean storage cabinet for								
Parking bay e g fibre optic bronchoscopi	2	4.0	- <b>e</b> o	intubating bronchoscope)	00			-100 0% yes	yes	yes	designed out	need to review plans to board comment
Store: satellite pharmacy	1	12.0	02.4	not provided by bidder	00			-100 0%				add room review plans to board comments
Store: bulk supplies	2	90.0		2 of 2 below bnef area	159 3			-11 5% no	yes	yes		need to review plans to board comment
Store: clinical equipment	2	40. 0		1 of 2 below bnef area	772		-2.8	-3 5% yes	yes	yes		need to review plans to board comment
Store: Orthopaedic Specific (For implants	1	30.0		1 of 2 below brief area - Store or	223		-7.7	-257% no	yes	yes	designed out	need to review plans to board comment
Store! linen	2	6.0		linen exchange trolley options	10 6		-1.4	-11 7% no	yes	yes	designed out	need to review plans to board comment
Store: ready to use medical gas cylinders	2	4.0	8.0									
Hold disposal	4	8 0	32.0	3 only provided by bidder - (Assumes 4 "pods" of theatres - 1 per pod)								
Cleaners (Housekeeping) room	2	10.0	- 30.0	1 of 2 below brief area	18.2		-18	-9.0% no	yes	yes	deslaged out	need to review plans to board comment
Switchgear room	2	5.0		2 of 2 below brief area	51		-4.9	-49 0% no	yes	yes		need to review plans to board comment
UPS & IT hub room	2	9.0	11	1 only provided by bidder	116			-35 6% no	yes	yes		need to review plans to board comment
Sub-Total					508.1	-45.4						
Staff support facilities	-	_										
Rest & dining room with beverage & snack preparation bay												
40 staff	1	116.0	116 0									
Small rest room		24.0		not provided by bidder - En-suite to rest/dining area	0.0		.24 0	-100.0%			2	add room plans review with Board
Workstations (6 persons)	4	24.0	540	En-suite to small rest room	23 3		-0.7		yes	designed out	need to review	w plans to board comment
	N									-		-
					139.3	-24.7						

A51115531

#### NSGH - Adult Hospital

Contract Data Part 2	Volume 1 - Schedules	of Accommodation
----------------------	----------------------	------------------

Shared support facilities: Theatre & anae	sthetic d	partmen	t									Page 79
Staff changing room including boot chang	1	50.0		Male staff								
Staff changing room including boot chang	1	90.0	90.0	Female staff								
				1 For Male staff, 1 For Female								
Utility footwear washing	2	4,0	8.0	staff								
				not provoded by bidder - 1 For								
WC Wheelchair user & changing / showe	2	4.5		Male staff, 1 For Female staff	00		-90	-100 0% no	yes	yes	yes	add room
WC & wash ambulant	16	2.0	32.0	10 x f and 6 x m								
WC & handwash accessible, wheelchair	2	4.5	9.0									
Shower: ambulant (non patient)	10	2.5	25.0	6 x fand 4 x m								
Sub Total			223.0		237.9	14 .9						
Anaesthetic/Theatre Management Faciliti	ios	_	_									
Main entrance fover	1		0.0	Included in circulation space								
Nating Area. 3 persons		4.5	4.5									
Interview/meeting room 6 persons	2	14.0	28.0									
menneering room o persons	*	14.0		nol provided by bidder - With 6								was provided next to Mech riser 9, but see new plan in review with Boa
Workstation Area		35.0		workstations and study space	0.0		26.0	-100.0% is there		100	designed out	
Practice Development Team 3 staff	1	18.0	18.0		0.0		-30.0	-100 076 15 there	yes	yes	designed out	comments.
Clinical Director	1	18.0	14_0									
Office 3 staff	2	14.0		Secretarial staff								
Consultant / SPRs 5 person offices	5	30.0		1 of 5 below brief area								check plans
	2	10.0	20.0									check plans
Break-out / interview rooms re above	2	10.0		3 persons								
Store: general & stationery	1	6.0	6.0									
	3	13.0	13.0									
On-call overnight stay room Shower, WC &wash ambulant (non patie	1	5.0		En-suite to on-call room								
WCs	4	2.0	8.0									
Disabled WC	4	4.5	4.5									
Cleaners (Housekeeping) room	-	7.0	7.0									
edditional telephones		7.0	7.0		442.4							
					142.4							
Sub Total			365.0		372.1	7.1						
SSU/CSSD Support												
TSSU / CSSD Theatre Store (Deliver to / Co	ollect from	)	112 0	not provided by bidder				it Is provided a sterile stores allocation 190sqm	s yes	yes	designed out	see plans of submission. Also new sketch to take on board Baord comments
Sub Total	_		112.0		0.0	-112 0						
Total Net			4820.5	N	5079.5		-203.5	-4%				
Planning allowanc	5%		241.0									
Sub-total			5061 5									
Engineering Allowance	3%		151.8									
Circulation	25%		1265 4									

# ENDOSCOPY - INPATIENT

Co-located with theatres

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room shor		Can area variance be explained	Can NA plan functional room in	Functionality to be determined at RDS/1:50	can shortian	
		M2	M2				sqm	% targe	by design t tolerance?	this area	planning stage	be designed out?	
Enrtance and Reception													
Reception / General office. 2 places	1	13.5			8.3			-38.59					
Patients trolley waiting area: 1 place	3	13.5		1 of 3 below brief area	39.8	5	-0.7	-1.79	yes				
WC: Disabled/ wheelchair user	2	4.5	9.0										
Sub Total			63.0		57.3	-5.7							
Patients preparation areas	1												
		6,5	6.5		7.5								
Patients changing room: 1 place	8	0.5	0.0		/.5								
Sub Total			6.5		7.5	5 1.0							
Patient treatment facilities	1												
Endoscopy room (with C-arm)	1	26.0	1 200.0		22.1		-3.9	-15.09	no				
Endoscopy room	2	22.0	44.0				0.0						
Patients local recovery	4	13.5		4 of 4 below brief area	51.6	5	-2.4	-4 49	ves				
Recovery staff base/utility	1	10.5	10.5						/				
Scope storeage area (Sized for 40 scopes in	r 1	40.0	40.0		39.1		-0.9	-2.3%	ves				
Resuscitation trolley parking bay 1 trolley	1	1.0	1.0				0.0		,				
Sub Total			175.5		170.1	-5.4							
Patients sanitary facilities	1 1												
Patients wc/bidet/wash (Type 7)	2	4.0	8.0		-								
Sub Total			8.0		8.0	0.0							
Staff facilities	1												
Charge Nurse/Sister's Office	1	9.0			7.7	7	-1.3	-14.49	no	yes	yes	designed out	no affect to main areas
Flexible office space: 3 spaces	1	12.0	12.0		14.8	3							
Sub Total			21.0		22.5	5 1.5							
Suggest													
Support spaces	1	0.5											
Dirty utility	1	6.5	6.5		9.4								
General store	1	12.0	12.0		12.4								
Cleaners room	1	7.0	7.0		9.6	5							
Disposal hold	ï	8.0			6.3	3	-1.7	-21.3%	6 no	?	yes	designed out	no affect to main areas.
Sub Total			33.5		37.7	4.2							
Total Net		-	007.6		303.1	1 -4.4	-16.1	-5%	6				
Planning allowance @ 5%	5%	-	15.4		000.	<b>7.7</b>	10.1	-57					
Sub-total	570		322.9										
Engineering Allowance @ 3%	3%		9.7										
	27%		87.2										
Circulation @ 27%	2170				400	A							This is the PE tetal area
TOTAL	2170		419.7		460.		1			1000			This is the BE total area

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

# Radiology

Page 81

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	short	fall	Can area variance be explained	e functiona	determined a RDS/1:50	t be required o can shortfall be designed	BE comment
		M2	M2				sam	& target		this area	planning stage	out?	
a Outpatient Support (Ground Floor)							oqui						
ain ontranco, recoption & waiting facilities													
ntrance foyer/concourse	1			In circulation allowance									
laiting area: 40 places, incl. 4 wheelchair place					65.4		-0.6	-0.9%	Ves	yes	yes	designed out	no issue .6 of sqm
/heelchair parking bay 6 wheelchairs	1	4.0	4.0	For Portering Chairs									
				A total of 4 places for all									
				modalities (for ED & any									
atients bed/trolley sub-waiting area: 2 places	2	8.0	16.0	inpatients using GF rooms)									
eception/appointments desk 3 position	1												
ffice 4 places	1				23 6		-0.4	-1.7%	yes	yes	Yes	designed out	no issue .4 of sam
efreshment vending machines	1				200		-04		100	100	103	acardinea our	10 13500 .4 01 3011
Anisitors & patients wc. Ambulant user	4			2 of 4 below brief area									
Isitors & patients wc: Disabled/ wheelchair use													
taff WC	2	2 0	4,0										
ub Total			144.5		149.1	4 6							
eneral x-ray imaging facilities													
Sub-waiting area: 20 places, incl. 2 wheelchair c	1	33.0		11 August and a second second	30.9		-2.1	-6 4%	yes	yes	Yes	designed out	
Staff Base	1						-						
			1	6 of 12 below brief area	27.7		-23	-7.7%		110.0	110.0	dealers and and	
mbulant patients pass through changing cubicl									Yes	yes	yes	designed out	
lisabled/wheelchair patients pass through chan				1of 2 below brief area	87		-0.3	-3 3%	Yes	yes	yes	designed out	
atients belongings locker bay 8 lockers	1		the second se	not provided by bidder	00			-100.0%	no	Yes	yes	designed out	add room
lirty Utility	1			Shared with CT	88		-0.2	-2.2%	Yes	Yes	Ves	designed out	
lean Utility	1	12 0	12.0	Shared with CT									
			AND INCOME.	anonemedation to be seeable									
	7	30.0		accommodation to be capable of conversion into CT in the future One room (A&E end) to accommodate OPG									
ontrol cubicle	7			of conversion into CT in the future One room (A&E end) to accommodate OPG									
ontrol cubicle DA Room	2	24.0	48.0	of conversion into CT in the future One room (A&E end) to accommodate OPG									
ontrol cubicle )A Room /isitors & patients wc: Disabled/ wheelchair use	2	24 0 4 5	48.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area									
Seneral computed radiography x-ray room incl control cubicle DA Room /isitors & patients wc: Disabled/ wheelchair use /isitors & patients wc: Ambulant user /isitors / patients wc: Ambulant user	2 2 2 2	24 0 4 5 2 5	48.0	of conversion into CT in the future One room (A&E end) to accommodate OPG									
ontrol cubicle DA Room /isitors & patients wc: Disabled/ wheelchair use	2	24 0 4 5 2 5	48.0	of conversion into CT in the future One room (A&E end) to accommodate OPG									
ontrol cubicle JA Room lisitors & patients wc: Disabled/ wheelchair use lisitors & patients wc: Ambulant user lardiac arrest/emergency trolley bay	2 2 2 2	24 0 4 5 2 5	48.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7	-0.3							
ontrol cubicle JA Room isitors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay	2 2 2 1	24 0 4 5 2 5	48.0 5.0 1.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area		-0.3							
ontrol cubicle JA Room isitors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay iub Total General fluoroscopic & fluorography imaging	2 2 2 1	240 45 25 10	48 0 5 0 1 0 375.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area			-0.2	-2.2%	yes	yes	γes	designed out	
ontrol cubicle DA Room Sistors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging Sub-waiting area: 5 places, incl. 1 wheelchair pli	2 2 2 1	240 45 25 10 90	48.0 5.0 1.0 375.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7		-0.2 -0.2	-2.2% -2.5%	yes yes	yes yes	γes γes	designed out designed out	
ontrol cubicle JA Room Isikors & patients wc: Disabled/ wheelchair use Isikors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging Sub-waiting area: 5 places, incl. 1 wheelchair pli Italf Base	2 2 2 1 1 1 1	240 45 25 10 90 80	48.0 5.0 1.0 375.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7			-2 5%	yes	yes	yes	designed out	
ontrol cubicle JA Room //sitors & patients wc: Disabled/ wheelchair use /isitors & patients wc: Ambulant user cardiac arrest/emergency trolley bay sub Total Senoral fluoroscopic & fluorography imeging Sub-walling area; 5 places, incl. 1 wheelchair pli staff Base Patients Changing with WC and shower (Disable	2 2 2 1 1 1 1	240 45 25 10 90 80 70	48.0 5.0 1.0 375.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8		-02						
ontrol cubicle DA Room Sistors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging Sub-walting area: 5 places, incl. 1 wheelchair pli tatif Base Valients Changing with WC and shower (Disable Valients Belonging s locker bay: 4 lockers	2 2 2 1 1 1 1 2 1	240 45 25 10 90 80 70 05	48.0 5.0 1.0 375.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8		-02	-2 5%	yes	yes	yes	designed out	
ontrol cubicle JA Room Isikors & patients wc: Disabled/ wheelchair use Isikors & patients wc: Ambulant user ardiac arrest/emergency trolley bay <b>sub Total</b> <b>senoral fluoroscopic &amp; fluorography imaging</b> Jub-waiting area: 5 places, incl. 1 wheelchair pli italif Base latients Changing with WC and shower (Disable latients belongings locker bay: 4 lockers inversal or remote fluoroscopy room Incl. contr	2 2 2 1 1 1 1 2 1	240 45 25 10 90 80 70 05	48.0 5.0 1.0 375.0 0.5 40.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8		-02	-2 5%	yes	yes	yes	designed out	
Introl cubicle A Room sitors & patients wc: Disabled/ wheelchair use sitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay ub Total enoral fluoroscopic & fluorography imaging ub-waiting area: 5 places, incl. 1 wheelchair plr labrwaiting area; 5 places, incl. 2 wheelchair plr labrwaiting area; 5 places, incl. 3 wheelchair plr labrwaiting area; 5 places, incl. 3 wheelchair plr labrwaiting area; 5 places, incl. 4 wheelchair plr labrwaiting area; 5 places, incl. 5 wheelchair plr labrwaiting area; 5 places, incl. 5 wheelchair plr labrwaiting area; 5 places; 1 wheelchair plr labrwaiting area; 1 wheelchair plr labrwaiti	2 2 2 1 1 1 1 2 1	240 45 25 10 90 80 70 05 40.0 90	48 0 5 0 1 0 375.0 0 5 40.0 9 0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8		-02	-2 5%	yes	yes	yes	designed out	
ontrol cubicle JA Room Sistors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging sub-waiting area: 5 places, incl. 1 wheelchair pla- taff Base atlents Changing with WC and shower (Disable rations belongings locker bay 4 lockers Iniversal or remote fluoroscopy room Incl. contr inty utility clean utility	2 2 2 1 1 1 1 1 2 1 1 1 1 2	240 45 25 10 90 80 70 05 40.0 90	48 0 5 0 1 0 375.0 0 5 40.0 9 0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8		-0.2 -0.4	-2 5% -2 9%	yes yes	yes yes	yes yes	designed out designed out	
ontrol cubicle IA Room IA Room IA Room Isitors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay wb Total eneral fluoroscopic & fluorography imaging isub-waiting area: 5 places, incl. 1 wheelchair pli taff Base atients belonging with WC and shower (Disable atients belongings locker bay: 4 lockers inversal or remote fluoroscopy room incl. contr inty utility lean utility wb Total	2 2 2 1 1 1 1 1 2 1 1 1 1 2	240 45 25 10 90 80 70 05 40.0 90	48 0 5 0 1 0 375.0 0 5 40.0 9 0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	<b>374.7</b> 8.8 7.8 13.8 11.7		-0.2 -0.4	-2 5% -2 9%	yes yes	yes yes	yes yes	designed out designed out	
ontrol cubicle JA Room Sistors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging sub-waiting area: 5 places, incl. 1 wheelchair pla- tataff Base atleints belongings locker bay 4 lockers Iniversal or remote fluoroscopy room Incl. contr inty utility clean utility sub Total Iterasound Imaging facilities	2 2 2 1 1 1 1 1 2 1 1 1 1 2	240 45 25 10 90 80 70 05 40.0 90	48 0 5 0 1 0 375.0 0 5 40.0 9 0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	<b>374.7</b> 8.8 7.8 13.8 11.7		-0.2 -0.4	-2 5% -2 9%	yes yes	yes yes	yes yes	designed out designed out	
ontrol cubicle IA Room Sistors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay ub Total Seneral fluoroscopic & fluorography imaging iub-watting area: 5 places, incl. 1 wheelchair plit taff Base atients Changing with WC and shower (Disable rations belongings locker bay: 4 lockers inversal or remote fluoroscopy room Incl. contr inty utility ub Total Iterasound Imaging facilities ub-reception/administration/records area: 1	2 2 2 1 1 1 1 1 2 1 1 1 1 2	240 45 25 10 90 80 70 05 40.0 90	48 0 5 0 1 0 375.0 0 5 40.0 9 0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	<b>374.7</b> 8.8 7.8 13.8 11.7		-0.2 -0.4	-2 5% -2 9%	yes yes	yes yes	yes yes	designed out designed out	
ontrol cubicle DA Room Sistors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Senoral fluoroscopic & fluorography imaging Sub-walting area: 5 places, incl. 1 wheelchair pli tatiff Base Valients Changing with WC and shower (Disable Valients Belonging's locker bay: 4 lockers Iniversal or remote fluoroscopy room Incl. contr Dirty utility clean utility Sub-reception/administration/records area: 1 aception	2 2 2 1 1 1 1 1 2 1 1 1 1 2	24 0 4 5 2 5 1 0 9 0 8 0 7 0 0 5 5 4 0 0 9 0 12 0	48.0 5.0 1.0 375.0 0.5 40.0 9.0 9.0 9.2.5	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	<b>374.7</b> 8.8 7.8 13.8 11.7	0.3	-0.2 -0.4	-2 5% -2 9%	yes yes yes	yes yes	yes yes	designed out designed out	
ontrol cubicle IA Room Sistors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay ub Total enoral fluoroscopic & fluorography imaging tub-waiting area: 5 places, incl. 1 wheelchair plint taff Base atlents belongings locker bay 4 lockers iniversal or remote fluoroscopy room Incl. contr inty utify clean utility ub Total Itrasound imaging facilities tub-reception/administration/records area: 1 acception 2 workstation positions	2 2 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1	24 0 4 5 2 5 1 0 9 0 8 0 7 0 0 5 40.0 9 0 12 0	48.0 5.0 1.0 375.0 0.5 40.0 9.0 9.0 9.0 9.0 9.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	
ontrol cubicle IA Room Sistors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay tub Total Seneral fluoroscopic & fluorography imaging iub-waiting area: 5 places, incl. 1 wheelchair plit taff Base atients Changing with WC and shower (Disable rations belongings locker bay: 4 lockers inversal or remote fluoroscopy room Incl. contr inty utility tile an utility tub Total Iterasound imaging facilities bub-reception/administration/records area: 1 acaption 2 workstation positions iub-waiting area: 13 ojaces, incl. 2 wheelchair plite area to a state of the second s	2 2 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1	240 45 255 10 90 80 70 05 400 90 120 300 210	48.0 5.0 1.0 375.0 0.5 40.0 90 92.5	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2.5% -2.9% -2.5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out	
Introl cubicle A Room isitors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay ub Total ieneral fluoroscopic & fluorography imaging ub-waiting area: 5 places, incl. 1 wheelchair pli taff Base atients belongings locker bay: 4 lockers niversal or remote fluoroscopy room Incl. contr irty utility lean utility ub Total Itrasound imaging facilities ub-reception/administration/records area: 1 sception 2 workstation positions ub-waiting area: 13 ojaces, incl. 2 wheelchair c taff Base	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 0 4 5 2 5 5 1 0 9 0 8 0 7 0 0 5 4 0 0 9 0 12 0 12 0 30 0 21 0 8 0	48.0 5.0 1.0 375.0 0.5 40.0 9.0 9.0 9.2.5 9.2.5 8.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	
ontrol cubicle A Room isitors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay ub Total enoral fluoroscopic & fluorography imaging ub-waiting area: 5 places, incl. 1 wheelchair plint taff Base alients belongings locker bay: 4 lockers niversal or remote fluoroscopy room Incl. contr inty utility ub Total Itrasound imaging facilities uub-reception/administration/records area: 1 coeption 2 workstation positions ub-waiting area: 13 places, incl. 2 wheelchair plint aff Base mbulant patients changing cubide	2 2 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1	24 0 4 5 2 5 5 1 0 8 0 7 0 0 5 5 4 0 0 9 0 12 0 12 0 30 0 21 0 8 0 21 0 8 0 21 0 8 0 21 0 8 0 21 0 20 0 21 0 20 0 20 0 20 0 20 0 20	48.0 5.0 1.0 375.0 0.5 40.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	
ontrol cubicle IA Room IA Room Sistors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay ub Total Seneral fluoroscopic & fluorography imaging iub-waiting area: 5 places, incl. 1 wheelchair plit taff Base atients Changing with WC and shower (Disable rations belongings locker bay: 4 lockers inversal or remote fluoroscopy room Incl. contr inty ubility ub Total Iterasound Imaging facilities ub-reception/administration/records area: 1 aception 2 workstation positions iub-waiting area: 13 olaces, incl. 2 wheelchair p taff Base imbulant patients changing cubicle isabled/wheelchair patients changing cubicle	2 2 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1	240 45 255 10 90 80 70 90 120 90 120 90 120 90 120 90 120 90 120 90 120 90 90 120 90 90 90 90 90 90 90 90 90 90 90 90 90	48.0 5.0 1.0 375.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	
ontrol cubicle IAR Room IAR Room Isitors & patients wc: Disabled/ wheelchair use isitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay <b>ub Total</b> <b>theorem of the state of the</b>	2 2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	240 45 255 10 90 80 70 05 400 90 120 120 120 120 80 1.5 35 900	48 0 5 0 1 0 375.0 0 5 4 0, 0 9 0 9 0 9 2.5 8 0 3 0 3 5 9 0 0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	
ontrol cubicle AA Room Sixtors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging Sub-waiting area; 5 places, incl. 1 wheelchair pli- staff Base Patients belongings locker bay: 4 lockers Iniversal or remote fluoroscopy room Incl. contr pirty utily Clean utility Sub-reception/administration/records area: 1 sception 2 workstation positions Sub-waiting area; 13 places, incl. 2 wheelchair pli- Staff Base Water and Staff Search and Staff Search 2 workstation positions Sub-waiting area; 13 places, incl. 2 wheelchair pli- Staff Base withough real; 13 places, incl. 2 wheelchair pli- Staff Base withoulart patients changing cubicle Disabled/wheelchair patients changing cubicle Dirty Utility Utility	2 2 2 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	24 0 4 5 2 5 5 1 0 9 0 8 0 7 0 0 5 5 4 0 0 9 0 12 0 21 0 8 0 21 0 8 0 21 0 8 0 21 0 9 0 21 0 9 0 21 0 21 0 21 0 21 0 21 0 21 0 21 0 21	48.0 5.0 1.0 375.0 0.5 40.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	
ontrol cubicle DA Room SA Room Sistors & patients wc: Disabled/ wheelchair use fisitors & patients wc: Ambulant user ardiac arrest/emergency trolley bay Sub Total Seneral fluoroscopic & fluorography imaging Sub-waiting area: 5 places, incl. 1 wheelchair pli tatif Base l'atients belongings locker bay: 4 lockers Iniversal or remote fluoroscopy room Incl. contr birty utility lean utility Sub-reception/administration/records area: 1 acception 2. workstation positions Sub-waiting area: 13 places, incl. 2 wheelchair pli taff Base umbulant patients changing cubicle bisabled/wheelchair patients changing cubicle bisabled/wheelchair patients changing cubicle birty Utility	2 2 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1	240 45 255 10 90 80 70 5 400 90 120 90 120 90 120 80 81 80 81 80 81 81 90 15 90 15	48.0 5.0 1.0 375.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 1.5	of conversion into CT in the future One room (A&E end) to accommodate OPG 1 of 2 below brief area	374.7 8.8 7.8 13.8 11.7 92.8 29.5	0,3	-0.2 -0.4 -0.3	-2 5% -2 9% -2 5%	yes yes yes	yes yes yes	yes yes yes	designed out designed out designed out designed out	

A51115531 Radiology

#### NSGH - Adult Hospital

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

NSGH - Adult Hospital					Contract	Data Pa	art 2 Volun	ne 1 - So	chedules	of Accommoda	ation	
Counselling/interview room: 5 places	1 9.0											Page 82
Cardiac arrest/emergency trolley bay	1 1.0	0 1.0	)									1 0.90 02
Sub Total		139.0	)	143.1	4.1							
Cross-sectional Imaging facilities: CT						4.7	00 101					
Sub-waiting area: 10 places, incl. 1 wheelchair p	1 16.0			113		-47		no	Ves	yes	designed out	
Assisted patient changing cubicle Ambulant patients changing cubicle	2 35			68		-0.2	-2 9%	yes	yes	yes	designed out	
Ambulant patients changing cubicle	2 1.											
			not provided by bidder -									
Patients/staff belongings locker bay	1 20		Locate close to MR & CT	00		-20	-100 0%	no	ves	yes	designed out	add rooms
Visitors & patients wc Disabled/ wheelchair use	1 4 9	the second se		4.1		-0.4	-8.9%	yes	yes	yes	designed out	
CT scanner room	2 40.0		1 of 2 below brillf anta									
Lead apron & protection gear holding area	2 0.5		not provided by bidder	0.0		-10	-100 0%		yes	yes	designed out	add room
Counselling/interview room 5 places	1 90											
Control Room - shared for 2 CT rooms Radiologists Office / Reporting area	1 24 0		not provided by bilder	0.0		-12.0	-100.0%	no	2	1105		add room
Radiologists Office / Reporting area	1 12 0		Two sided access with patient	00		-12.0	-100078	110	1	yes		20010011
CT Prep Room (2 bays)	1 22.0	1/- 224	on trolley	192		-2.8	-12 7%	no	yes	yes	designed out	
CT Engineering /Technical room	1 15.0			14 9		-0.1	-0 7%	yes	yes	yes	designed out	
Sub Total				173.4	-22.1							
Shared facilities: CT & MRI			1									
Sub-reception/administration/records area 2		10000										
reception		10 M										
& 2 workstation position	1 16.0			10 4		-56	-35 0%	no	yes	Yes	designed out	
		- 21 - 3										
Waiting area 15 places incl 2 wheelchair place	1 25.0	Distantion of the		24				2	2	2	?	is accounted for in two places because of layout for CT and MRI in plan,
Supt Office (2 person)	1 13.0	13.0										
			Include medical gases -									
		1.0	patients may be from cntical care or ED & have to									
Patients bed/trolley sub-waiting area. 4 places	1 20.0	I DE DEL	wait etc	17.1		-29	-14 5%	no	yes	yes	designed out	
t alone bear oney sab thaning area + places	1 201	Days with	Hall Clo				14 0 10	110	100	703	das grice out	
Store Rooms	1 6.0			0.0		-6.0	-100.0%	no	?	yes	designed out	add if needed can be double checked rationalised in 1:200
Cardiac arrest/emergency trolley bay	1 1.0			20		-1.0	-100 0%	no	yes	yes	designed out	add not an issue small parking up space.
Sub Total				43.0	-38.0							
Cross-sectional Imaging facilities: MRI												
Non Controlled Area: Sub-waiting area: 10 places, incl. 1 wheelchair c	1 16.0	16/	0 Inpatients									
Interview & Patient / Staff locker bay	1 9.0											
Anaesthetic Recovery	1 19.0			18 9		-01	-0 5%	yes	yes	yes	designed out	
Ambulant Changing Cubicle	1 1.	-	5									
Assisted patient changing cubicle	1 4.5	5 4.	5									
Martin Andrews Statistics Instantion	÷		and the second sec			15	100 084				4	
Visitors & patients wc: Disabled/ wheelchair use	1 4.		not provided by bidder	0.0		-4 D	-100.0%	?	yes	yes	designed out	add room there are more on plan than requested?
Clean Utility Dirty Utility	1 90											
Controlled Area:												
Controlled Lobby			In circulation space									
MRI scanner engineening/technical room	2 24 0											
MRI scanner room (3 Tesla is a possibility - may	2 84		1 of 2 below brief area	167 9		-0 1	-0.1%	yes	yes	yes	designed out	
Cleaners' room with non-ferromagnetic equipme	1 7.0											
Prep & Store Room	2 10	20.0										
			includes safety records and									
Control Room - Shared by 2 scanner rooms	1 26 (		slave anaesthetic monitors	248		-1.2	-4.6%	yes	yes	Yes	designed out	
Sub Total		344.	5	348. 7	4.2							
Whole Centre facilities: Support accommodation												
Image review/reporting area 2 workstations	4 16	0	1 of 4 below brief area					yes	yes	yes	designed out	check
Counselling interview room 5 places	2 9.0							103	103	103	ecolution out	
Cleaners room	3 70		only 2 provided by bidder	14 4		-66	-31.4%	no	?	yes		check
General store	2 6.	0 120										
		16 S. 3	a second second									
Equipment store	2 6	the second se	only 1 provided by bidder	6.1			-4 19 2%	no	?	yes	designed out	add room to review in 1:200's these are provided across whole department.
Disposal hold	1 10.		1 of 3 helder held stor	82		-10	-18.0%	no	?	yes	designed out	
Linen store	3 41		1 of 3 below brief area					yes	yes	yes	designed out	

A51115531

Radiology

#### NSGH - Adult Hospital

NSGH - Adult Hospital						Contract	Data Pa	rt 2 Volur	ne 1 - Sc	hedules of	Accommoda	ation	
Mobile x-ray equipment bay 2 machines	1	5.0	50										Page
Mobile x-ray equipment maintenance/service wo		11.0	11.0		400.7								5
Sub Total		-	165.0		169.7	4.7							
Outpatient Support (Ground Floor) TOTAL			1537.0		1494.5 2070.9	-42.5							
Inpatient Support (First Floor)					201010								
Main entrance, reception & waiting facilities(amb				and the second se									
Reception/ Stalf Area	1	30.0	30.0										
Waiting area	1	70.0	70.0										
Visitors & patients wc Disabled/ wheelchair use	2		9.0		8.8		-0.2	-2.2%	yes	yes	yos	designed out	
Staff wc & wash	2	1.00	4.0		2.1		-1.9	-47.5%	no	?	yes		to review in 1:200's there are WC's across the floor plat it may require swapping stores and WC's.
Sub Total			113.0		115 0								
Control Description (Description) (Desting Rev) Asso													
Central Reception/Recovery (Bed/trolley) Area		10.0	10.0										
Reception/Recovery Staff Base	1	10.0	10.0	10 of 10 below brief area -									
				Configured as theatre									
Reception/Recovery Spaces	10	13.5		reception/recovery area	126.1		-8.9	-6 6%	yes	yes	yes	designed out	
Nursing Staff Office	1	120	12.0										
Clean Utility	1	12.0	12.0										
Dirty Ulility	7	9.0	9.0										
Visitors & patients wc. Disabled/ wheelchair use	1	4.5	4.5										
Cardiac arrest/emergency trolley bay	1	1.0	1.0										
Linen Trolley Bay	1	2.0	2.0										
Staff wc Disabled/wheelchair user (with locker for disabled staff)	3	5.0	5.0										
Sub Total			190.5		191.8	1.3							
General x-ray imaging facilities													
······			1. 1. 24	4 provided by bidder -(1 per x-									
Ambulant patients pass through changing cubicl	3	2 5	100	ray room)	60		-1.5	-20 0%	no	yes	Ves		
				only one previded by bidder -						in the one	3		
Disabled/wheelchair patients pass through chan	3	4.5	13.5	(1 per x-ray room)	42		-9.3	-68 9%	no ?	yes	yes	no	add room, but not easy to allow for desired configuration.
General computed radiography x-ray room incl.													
control													
cubície	3	30 0		2 of 3 below bnef area	88 1		-39	-4 3%	yes	ves	yes	designed out	
PACS Room	1	24 0		not provided by bidder	0 0		-24.0	-100 0%					add room
QA Room	2	18 0	36.0										
	221			(Shared with U/S and									
Dirty utility	2	90		mammography)									
01		40.0		(Shared with U/S and									
Clean utility	1	12.0		mammography)									
Lizze Trelley Rev		2.0		(Shared with U/S and									
Linen Trolley Bay	1	20		mammography)									
Cardiac arrest/emergency trolley bay	- 1	1.0	1.0										
Visitors & patients wc: Disabled/ wheelchair use	2	4 5		not provided by bidder	0.0		-9.0	-100.0%	no	?	yes	designed out	add room, shared with entrance? Need review in 1:200's
Sub Total					172.8	-31.2							
X-ray mammography imaging facilities		Í											
Symptomatic mammography x-ray examination s	3	15.0			14.7		-0.3	-2 0%	yes	yes	yes	designed out	
Sub Total					14.7	-0.3							
Ultrasound imaging facilities		-					0.0	0.001				de alterne de la	
Disabled/wheelchair patients changing cubicle	2	10.0	7.0		64		-06	-8.6%	yes	Yes	yes	designed out	
General Ultrasound examination room	2	16.0	32.0										
Patients en-suite wc. Disabled/ wheelchair user	2	4 5	9.0										
0.5.7.4.1		-	40.5		40.5								
Sub Total		_	48.0		48.6	0.6							

NSGH - Adult Hospilal					Contract	Data Pa	rt 2 Volu	me 1 - Sch	nedules of	f Accommodation	n	
General fluoroscopic & fluorography imaging facilities												Page 84
Universal or remote fluoroscopy room incl. contr 1	400	40.0										0
Patients Changing with WC and shower (Disable 2	2 7.0	14.0	En-suite to fluroscopy room									
Patients belongings locker bay. 4 lockers	1 05	0.5										
Dirty utility	1 9.0	9.0										
Clean utility 1	1 12 0	12.0										
Linen Trolley Bay	1 20	2 0	)									
Sub Total		77.5		82.3	4.8							
Interventional Radiology												
Reception / Base 1	1 11.0	11.0										
Palients wc. Disabled/ wheelchair user	1 4.5			43		-02	-4 4%	yes	yes	yos	designed out	
Ambulant patients pass through changing cubicl 2		5.0										
	2 4 5	9.0										
Staff Changing 2	2 10.0	20.0	(Split M&F)									
			(Associated with changing									
Staff shower 2	2 2.5	5.0	) areas)									
Cloff we B week	2.0	10	(Associated with changing									
Staff wc & wash 22	2 2 0 1 12 0	12.0	areas)									
Clean utility/preparation 1	1 12.0	12.0										
Dirty utility	1 14.0		Shared between theatres	9.1		-49	-35.0%	no	2	yes	designed out	tight but possible to make work given nature of department
	1 2.0	2.0										
	2 65 0			126 4		-36	-2 8%	yes	yes	yes	designed out	
			Controlling both endo-									
Control room - shared	1 24.0	240	vascular rooms									
			bidder has combined into one									
	2 16.0		room	31.9		-0_1	-0.3%	yes	yes	yes	designed out	
at a post of the second s	2 11.0											
	1 190		)			4.0	17 541			1000	4 -14 - 4	
	2 12.0			198		-4 2	-17 5%	no	Yes	Yes	designed out	
	1 20.0											
	1.0	1.0										
Sub Total				351.3	-7.2							
Cross-sectional Imaging facilities: CT												
	1 13.0											
Assisted patient changing cubicle 2	2 35	7.0	0									
Patients/staff belongings locker bay	1 20	121	not provided by bidder	0.0		-20	-100.0%	no	yes	yes	designed out	add room .5 sqm can be incorporated within layout during 1:50 discussions
		1.56										
Visitors & patients wc: Disabled/ wheelchair use	1 4.5	100	not provided by bidder	0.0		-45	-100.0%	no	yes	yes	designed out	add room .5 sqm can be incorporated within layout during 1:50 discussions
	2 40.0			0.0			100,010	110	100	100	1001,1100 001	
			net provided by bidder - 1 per									
Lead apron & protection gear holding area	2 0.5		CTRoom	0.0		-1.0	-100.0%	no	yes	yes	designed out	add room .5 sqm can be incorporated within layout during 1:50 discussions
			Shared between both CT									
Control Room	1 24.0		rooms	1.00								
	2 9.0		1 per CT Room	17.0		-1.0	-5 6%	yes	yes	yes	designed out	
	1 120			119		-0.1	-08%	yes	yes	yes	designed out	
Store Rooms 2	2 60	12.0	1 per CT Room									
CT Bros Room (2 hours)	1 22.0	220	Two sided access with patient on trolley									
	1 220	22.0	, on a dilloy	87		-03	-3.3%	VAR	yes	yes	designed out	
	1 120			10.0		-2.0		yes	yes	yes	designed out	
Clean utility Linen Trolley Bay	1 20	2.0		10.0		20	10.178	10	103	100	303131100 001	
	1 10											
Sub Total				210.2	-9.3							
				210.2	-5.5							
Whole Centre facilities: Clinical Support accommodation	1	-				1.5						
Radiological Review/Reporting Areas 6 place	2 48 0			94 5		-1.5	-16%	yes	yes	yes	designed out	
								y05 500				combined in DD discussions. Area provided over and above could make
Radiological Review/Reporting Areas: 2 place	5, 20.0	100.0	only 3 provided by bidder	119.1		19 1	19.1%	comment	ves	yes	designed out	
	1 140											
		Contraction of									part design	
		100									outdesigned	add rooms discuss during 1:2 00 there is space near recovery to possibly
	3 7.0		only 1 provided by bidder	70		-14.0		no	yes	yes	out	took at
General store	2 60	12 28	not provided by bidder	0.0		-12.0	-100.0%					add rooms
		199										
Equipment store	2 60	1.5.88	only 1 provided by bidder	:00		-20	-16.7%	no	?	yes	designed out	possibly lableed as just store not equipment store in which case it is in,
A51115531			enty i pronace by blader	100		-2-0	10110			,	storming out	
Radiology								18/12/2009				

Contract Data Part 2 Volume 1 - Schedules of Accommodation

Radiology

NSGH - Adult Hospilal

NSGH - Adult Hospital					Contract	Data Pa	rt 2 Volun	ne 1 - Sc	hedules	of Accommoda	ation	
												Page 85
Mobile x-ray equipment bay: 2 machines	1	5.0	5.0 not provided by bidder	0.0		-5.0	-100.0%	nö	no	yes		add rooms these are park up spaces for mobile equipment and can be fitted into circulation junctions.
Mobile x-ray equipment maintenance/service wo	1	11.0	11.9 not provided by bidder	0.0		-11.0	-100.0%	no	no	yes		add rooms these are park up spaces for mobile equipment and can be fitted into circulation junctions.
Beverage preparation bay (Patient pantry)	1	12.0	12.0									
Counselling/interview room 5 places	1	9.0	9.0									
Sub Total				266.3	-25.7							
Administration facilities												
						10.0	100.001					add rooms, may need to look at shared offices and review 1:200 in terms of
Office: 1 place with large meeting area	1.	16 0	16.9 not provided by bidder	0.0		-16 0	-100 0%	no	?	yes	need of user	people numbers,
											? This can be designed out, but depends on	
Office 1 place with meeting area	1	12 0	not provided by bidder	0.0		-12 0	-100 0%	no	?	yes	need of user	add rooms
Superintendent radiographers office: 1 place	2	10.5	2 of 2 below brief area	20 2		-08	-3.8%	yes	yes	yes	designed out	
Senior radiographers 2 places	3	13.0	39.0									
Secretanal office Shared - 3 place + Filing	4	18.0	4 of 4 below bnef area	69.2		-28	-3.9%	yes	yes	yes	designed out	add rooms
Clencal office 6 place	1	30.0	30.0									
											can be designed out	
Office supplies store	2	6.0	not provided by bidder	0.0		-12.0	-100.0%	no	?	?	with user input	add rooms could easily be achieved as cupboards in corridor.
Meeting room/interview room (6 person)	1	14.0	14.0									
Photocopy room	1	80	8.0									
Staff wc & wash	2	2.0	4.0									
Seminar room: 35 places	1	80.0		58 9		-1,1	-1.8%	Yes	yes	yes	designed out	
Library/study area: 10 places	1	32.0	32.0 En-suite to seminar room									
Sub Total				281.4	-38.6							
Inpatient Support (First Floor) TOTAL				1734.4 2404.6	-103.6							

#### NSGH - Adult Hospital

Joint Nuclear Medicine Dept

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

												1 4
ADULT												
Reception office	1	14.0	14.0									
Vheelchair bay	1	2.0	2.0									
	V. 1		"cold" i e DXA, oth									
ted / Trolley wait - pre admin	1	6.0	6.0 admin of radiophar	maceutical								
			assisted / wheelch i.e. DXA, other pts	pre-admin								
Naiting area pre admin	1	20.0	20.0 of radiopharmaceu	tical								
Patients WC	1	45	2.6	3.7		-08	-17 8%	no	yes	yes	designed out	
Water Dispenser	1	0.5	not provided by bid	der 0.0		-0 5	-100.0%	no	yes	yes		can be included in waiting area easily.
Waijing area, post admin	Ť	- 15.0	"hot" (post admin o radiopharmaceutic beverage counter			-2.8	-187%	по	Yas	VQS	designed out	
			"hot" (post admin o			2.0	101110	110	103	100	designed out	
Bed / Trolley wait - post admin	1	6.0	6.0 radiopharmaceutic assisted / wheelch									
Patients wc. Disabled/ wheelchair			r e post admin of									
user - post admin	1	45	4.5 radiopharmaceutic			0.5	4 20/				dealaned and	
Imaging room (radionuclide) - SPECT-CT	1	40.0	1.1.1	39.5		-0 5	-1 3%	yes	¥8s	yes	designed out	
												will depend on the equipment configuration we have 2 x small next to
Control room (radionuclide) - SPECT-CT	1	13.0	100	5.5		-7 5		no	?	yes	designed out	other this could be one room
Radionuclide store & dispensary	1	12 0	10.0	11,1		-09	-7.5%	yes	yes	yes	designed out	
Radionuclide administration room	1	12.0	12.0									
Dirty utility / sluice	1	8.0	8.0					±11				
Disposal hold	4	8.0	NB radioactive wa 8 0 storage	ste								
Disposal noio		0.0										
Blood cell Labeling Room	1	10.0	Clean room NB EX 10.0 DUCTING REQUIR									
Sample Countiers	1	8.0	10.0 DOCTING RECOIL	7.4		-06	-7 5%	yes	yes	ves	designed out	
Cardiac Room	4	13.0	13.0			-010	-1 370	462	462	AG2	designed out	
Clean Utility / Laboratory		12.0	12.0									
Clinical / examination room	1	10.0	10.0									
	4		10.0			1.0					destant dis A	
Store		80		68		-1 2	-15.0%	no	Yes	Yes	designed out	
Therapy Room	1	6.0	60									
Reporting Room	1	12.0	12.0									
Cardiac arrest/emergency trolley bay		2.0	not provided by bio	lder 0.0		-2.0	-100.0%	no	yes	yes	designed out	add easily accommodated in stange shaped corridors.
Consultant Physicist	1	14.0	14.0 1 person + meeting			- 0			,		acaimine a out	and see a second decode a second s
Office 4 place	1	18.0	18.0									
Staff base	1	80		6.6		-1.4	-17 5%	no	ves	yes	designed out	
Staff changing facilities: 4 places	4	6.0	nale	5.1		-09	-15 0%	no	yes	yes	designedout	
	1			65		-35						
Staff changing facilities: 8 places		10 0	female	85		-3.5	-35 0%	no	yes	yes	designed out	
Staff wc & wash & shower	1	4.5	4.5									
Photocopier Bay	1	2.0	not provided by bid	ider 00		-2,0	-100,0%	no	Yes	yes	designed out	add in junction to geometry behind reception
Patient changing cubicle (disabled)	1	4.5	45									
Imaging room (DXA)	1	20.0	20.0									
Interview room	1	9.0	9.0									
Sub Total			342.5	360.9	18.4							

CHILDRENS					itract Data Par						Dege 0
Reception / Staff Base	1	14.0	14.0								Page 87
Wailing area: pre admin	1	12.0	"cold" i.e pre-admin of 12.0 radiopharmaceutical								
Patients WC	1	4.5	Non-radioactive - patients & 4 5 accompanying persons								
Water Dispenser	4	0.5	not provided by bidder	0.0	-0.5	-100 0%	по	yes	yes	designed out	can be included in waiting area easily,
		0.5	hot (post admin of radiopharmaceutical) and with	0.0	-015	10007	10	103	YE2	designed out	
Waiting area: post admin	1	12.0	12.0 beverage counter								
Bed / Troliey wait - post admin	4	6.0	hot (post admin of radiopharmaceutical) and with beverage counter assisted / wheekhair & "hot"	56	-0.4	-6 7%	yes	yes	yes	designed out	
Patients wc Disabled/ wheelchair user - post admin	1	4.5	e post admin of 4.5 radiopharmaceutical								
Imaging room (radionuclide)	1	40.0	400 400	39 9	-0 1	-0 3%	yes	yes	yes	designed out	
Control area -(radionuclide)	ä	5.0	s s not provided by bidder	0.0	-5.0	-100 0%	no	?	yes	design out	add. We have never met to discuss this layout. There is scope to incorporate,
Equipment area (radionuclide)		5.0	not provided by bidder	0.0	F 0	-100.0%	no	2	yes	designout	add. We have never met to discuss this layout. There is scope to incorporate.
Radionuclide store & dispensary	1	11.0	11.0	0.0	-3.0	100.078	110	1	462	designout	incorporate.
Radionuclide administration room	1	12.0	12.0								
Dirty utility / sluice	1	8 0	Direct access from imaging room	7,4	-0 6	-7 5%	yes	yes	yes	designed out	
Disposal hold	ä	8.0	Adjacent to injection room Clinical & domestic waste, 8.0 dirty linen, radioactive waste								
Blood cell Labeling Room	:1	10 0	not provided by bidder - Clean room NB EXHAUST DUCTING REQUIRED	0 0	-10 0	-100 0%	no	of departme over held DD perior still to follow In 1:200	1 in d	designed out	this in see plan. Surely not duplicated for children?
QC eqpt storage bay	4	2.0	not provideld by bidder - Near gamma camera rm 1	0.0	-2.0	-100 0%	по	7 NO revi of departme ever held DD perior still to follow In 1:200 7 No revi of departme	ent Jin d	designed out	add there are surely not duplicated with adult children? We can alwys provide a change nearby in the lift core as this is not a ward floor plate the wait area able to be reassigned.
Staff changing facilities: 1 places	1	3 0	2.0 not provided by bidder -male	0 0	-3.0	-100.0%	no	ever held DD perio stillto follow in 1:200 7 No revi	d în d	7	add there are surely not duplicated with adult children? We can alwys provide a change nearby in the lift core as this is not a ward floor plate the wait area able to be reassigned,
Staff changing facilities; 3 places		5 0	not provided by bidder -	0.0	-5 0	-100 0%	no	departme ever held DD perio still to follow in 1:200 V No revi of	d in d	7	add there are surely not duplicated with adult children? We can alwys provide a change nearby in the lift core as this is not a ward floor plate the wait area able to be reassigned.
Staff wc & wash & shower	1	4 5	a 5 not provided by bidder	0.0	-4 5	-100,0%	no	departme ever held DD perio still to follow in 1:200	d in d	?	add there are surely not duplicated with adult children? We can alwys provide a change nearby in the lift core as this is not a ward floor plate the wait area able to be reassigned.

NSGH - Adult Hospital						Contrac	t Data Pa	art 2 Volu	me 1 - So	chedules of A	ccommo	dation	
Cardiac arrest/emergency trolley bay	4	2.0		not provided by bidder	0.0		-2.0	-100.0%	no	7 No review of department ever held in DD period still to follow in 1:200	t	designed out	Page 88
Sub Total					150.1	-18.9							
JOINT	1	1											
Imaging room (radionuclide) - SPECT-CT	1	40.0	40.0										
Control room (radionuclide) - SPECT-CT	1	11.0			9 5		-1 5	-13 6%	no	yes	yes	designed out	
Cleaners store	1	7.0	10	not provided by bidder	0.0		-7.0	-100.0%					wo can uso the spaco in the lift core as this is not a ward floor and thore is capacity for it horo.
Sub Total					50.2	-7.8							
Joint Nuclear Medicine Dept	T	1	569.5		561.2	-8.3							
					810.6								
Total Net		-	3044.5		3790.1	-154.4	-298 6	-7.5%					
Planning allowance @ 5%	5%	6	197.2										
Sub-total			4141.7										
Engineering Allowance @ 3%	3%		124.3										
Crailation @ 28%	28%	_	1159.7			1							
TOTAL	1	-	5425.7		5286.1	-							Be total for all radiology

#### PHARMACY DISPENSARY

Activity	Qty	Unit Area m²	Total Area m²	Comments	BE DII	FFERS	Room a short		Can area variance be explained by	Can NA plan functional room in this	Functionality to be determined at RDS/1:50	can shortfall	
							5000 9	% tamet	design tolerance?	area	planning stage	be designed out?	
Dispensary							sym ,	a muller	totetaneet				
Waiting	1	15.0	10.0		53								ther wait
Interview room	1	5.0	5.0										
Dispensary	;	120.0	stare.	Includes storage, hot desks and autodispenser	109 8		-10 2	-8,5%	yes	yes	yes	design out	
Dispensary extemporaneous preparation area & store	1	10.0			0		-10.0	-100 0%	yes it's labeiled as one area of 20sqm on line below	Yes	yes	design out	add ther area also swa
Goods reception/unpacking area	1	10.0	10.0		20.9		-10.0	100 0 %	Inte below	yes	yes	design out	030
Temperature controlled store - freezer	1	5.0		Alarmed to switchboard with continuous temperature recording Back up for general temp. controlled store	200								
Temperature controlled store - general	1	5 0	5.0	Alarmed to switchboard with continuous temperature recording.									
Unlicenced medicines	1	5.0	5.0										
Controlled drugs store	1	100	10.0										
Clinical trials preparation	1	15.0	15.0										
Sub-Total			200.0		230.9	30.9							
Staff Facilities													
WC & wash, shower & lockers male staff	1	8.0	8.0										
WC & wash, shower & lockers, female staff	1	15 0	15.0										
Cleaners room	1	7.0	7.0										
Sub-Total			30.0		34.7	47							
Total net		· · · · ·	230.0		265.6	35.6	-20.2	-9%					
Planning	5%		11 5										
Sub-Total			241.5										
Engineering	3%		7.2										
Circulation	22%		53.1										circ dow
Total	-	1000	301.9		284.4	_	_	_					BE

							note due to location/layout clrculation for this area is well down
35.6	-20.2	-9%					
25.6	20.2	-9%					
47							
30.9							
	-10.0		yes it's labelled as one area of 20sqm on line below	yes	yes	design out	there is space in the goods prep area labelled combined below an also waiting area so can be swapped when discussed with users at 1:200 stage.
	-10 2	-8,5%	yes	yes	yes	design out	add room Isn't really a problem a
							there is additional space in the waiting area with toilet added too

**BE** comment

-----

# **ASEPTIC DISPENSARY**

TOTAL ALLOWANCE	-81015 London		220.0	ATTAC AVERA	slock allowance
Aseptic suite					
Activity	Giy	tinU Årea m²	letoT <sup>5</sup> m 691A	ADB Code	comments

The second second

#### MEDICAL DAY UNIT

	1.						1.000						And the second state of the second state and the second state of the
Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room shor			Can NA plan functional	to be	Will more area be required or	
		M2	M2				sqm	% target	Can area variance be explained by design tolerance?	room in this	determined at RDS/1:50 planning stage	can shortfall be designed out?	
Entrance and Reception													
General office: 2 places	1	13.0	13:1			12 5	-0 5	-3.8%		Yes	Yes	No/Yes	There is sufficient total area - the rooms can be adjusted during Design Development Stage There is sufficient total area - the rooms can be
Medical records trolley store	÷,	3 5	1 33	not provided by bidder		0 0	-35	-100.0%		Yes	Yes	No/Yes	adjusted during Design Development Stage
Waiting area 12 places, incl. 2 wheelchair places	1	20 0	20.0		1.	27.9							
Visitors wc: Ambulant user	2	2.5	5.0										
Patients wc: Disabled/ wheelchair user	1	4.5	4.5										
Refreshment vending machine bay	1	3.0				1.9	-11	-36.7%		Yes	Yes	No/Yes	There is sufficient total area - the rooms can be adjusted during Design Development Stage
Sub Total			49.0			52.7 3.7							
Patient investigation & treatment spaces		T	-		-1								
anent investigation & treatment spaces		1	Con D		-								
Consulting/examination room dual sided couch access	2	16.5		2 of 2 below bnef area		27.0	-6.0	-18.2%		Yes	Yes	No/Yes	The functionality of the sizes of these rooms need to be reviewed with the Users - the rooms can be adjusted during Design Development Stage
Stalf base: 2 place	1	4.5	4.5			6.6	-0.0	-10.2 /0		163	163	110/165	adjusted during besign bevelopment stage
Physical Measurement / Phlebotomy	1	8.5				7.8	-0.7	-8.2%		Yes	Yes	No/Yes	
Small Lab( endocrinology) INR testing Bay	1	10 0 1 0	1.0			7.8	-2 2	-22 0%		Yes	Yes	Norres	The functionality of the sizes of these rooms need to be reviewed with the Users - the rooms can be adjusted during Design Development Stage
Treatment room/ cons/exam Patient trolley/wheelchair parking bay: 1 Irolley	2	16.5	33.4	2 of 2 below brief area		27.0	-6.0	-18 2%		Yes	Yes	No/Yes	The functionality of the sizes of these rooms need to be reviewed with the Users - the rooms can be adjusted during Design Development Stage
& 4 wheelchairs	1	5.0	5.0										
Interview room/cons/exam	1	16 5				15.9	-0 6	-3 5%		Yes	Yes	No/Yes	
Sub Total						98.3 -13.2							
Patient recovery areas													
Day space (cubicles - glass panition dividers)	21	13.5		21 of 21 under bnef area	2	48.3	-35.2	-12 4%		Yes	Yes	No/Yes	The functionality of the sizes of these rooms need to be reviewed with the Users - the rooms can be adjusted during Design Development Stage
Single bedroom		16.5				16 0	-05			Yes	Yes	No/Yes	,,
Ensuite we to single bedroom	1	4.5	4.5		-		.00	0010					
Beverage preparation bay	1	8.0	8.0		_								
Sub Total					2	77.0 -35.5							

#### MEDICAL DAY UNIT

Room Type	Quantity	Size	Total	Comments	BE	DIFF	ERS	Room shor		Can area variance be explained by design	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage	be designed	
	_	M2	M2		_			sqm	% target	tolerance?	100 C		المواد والمحاوي	
Sanitary facilities														
Patients wc. Disabled/ wheetchair user	6	4,5		6of 7 under brief area - addition wc provided		18 5		-8.5	-31 5%		Yes	Yes	Norres	
Sub Total			27.0		1	18.5								
Support spaces	1													
Resuscitation trolley parking bay. 1 trolley	1	2.0	20			1.8		-0.2	-10.0%		Yes	Yes	No/Yes	
Dirty utility	1	9.0	1. 84			8.1		-09	-10.0%		Yes	Yes	No/Yes	
clean utility	1	10.0	10:3			9 1		-09	-9.0%		Yes	Yes	No/Yes	
General store	1	12.0	12.0											
Disposal hold	1	8.0	8.0			69		-1.1	-13.8%		Yes	Yes	No/Yes	
														Area will be provided as part of M&E provision
Switchgear room	1	4.0	1.41			19		-2.1	-52 5%		Yes	Yes	Norres	(areas have been allocated on current plan)
Sub Total	T					39.9	-5.1							
Total Net	111	-	545.0		41	86.4	-58.6	-70.0	-13%					
Planning	5%		27.3											
			572.3											
Engineenng	3%		17.2											
Circulation	31%	-	177.4				-	-	W. Commenting	_	_			
Total			766.8		6	90	-		The second second	and the second division of the second divisio	and the second sec	Street Street Street Street	and the second diversion of th	This is the BE Total Area

OUTPATIENTS	]														
Room Type	Quantity	Size		Comments	BE	DIFFERS	Room a short	fall	explained by design	functional room in this area	determined at	vviii more area		BE comment	
Outpatient Entrance		M2	M2				sqm S	% target	tolerance?		31090		1		
				From Hospital main											
Entrance / Concourse	1	30.0	30.0	entrance		0.0									
				Patients go straight to		0.0									
Enquiry / reception point	5	2.0	2.0	reception desk		00									
Vending Area & Telephones	2	30	3.0		1. 1	0.0									
Sub Total			33.0												
			_												
				Ambulant WC - on F1											
Toilets	4	2.5		(GF use main ent WCs)		88	-1 2	-12 0%	no						
				Assisted WC - on F1 (GF											
Disabled WC	1	4.5		use main ent WCs)		4 4	-0 1	-2 2%	yes						
Store	1	8.0	8.0												
			00.5												
Sub Total		1	22.5												
Total for Outpatient Entrance					2	0.9 -34,6									
Admin & FM & Staff Areas etc	Die Col	ñ i i													
Medical Records Sorting / Holding	ä	16.0	160	Excludes main Med Recs Store / Dept	1	6.6									
Disposal Holds	3	60	18-3	only 1 provided by bidder Convenient to clusters		67	-11 3	-628%	2				add		
Resus Bays	3	1.0	3.0	one per floor - 3 floors											
OPD Manager	1	11.0	11.0		1	23									
Admin / Clinical Notes Workstations	1	16.0	16.0		1	6 5									
Meetings / Seminar	1	28.0	1 35 17		2	68	-12	-4 3%	3						
Medicines Management	3	12.0	E. MER	not provided by bidder		0 0	-12.0	-100 0%					add		
				Convenient to clusters - 3											
Cleaners Room	3	6.0	1994	floors		74	-10.6	-58 9%					add		
Sub Total			122.0		12	1.0 -1.0									
Generic OPD Cluster (4no)			1		Ľ.										
Waiting Area	1	36 0	-			3 8	-2.2	-6 1%							
Reception	1	10.0	1 11			96	-0.4	-4 0%							
WC - Disabled Size	1	4.5	4.5												
Nurse Base & Physical Measurement Ba		8.0		Adjacent to waiting area		74	~0.6	-7 5%							
Consult / Exam Room	6	16.5		2 of 6 under brief area	9	50	-1 0	-4 0%	5						
Clean Utility or Store	1	12 0	12 0												
Dirty Utility	1	60	6.0												
Store Room	2	4.0		only 1 provided by bidder											
Specimen / Disabled WC	1	4.5		With hatch to dirty utility											
				Locate next to shared											
				Clean & Dirty Utility											
Treatment Room (with prep area)	1	16.5	18.3	Rooms		62	-0 3	-1,8%							
Linen Cupboard	4	10		not provided by bidder		0.0	-10	-100 0%	6				add		

OUTPATIENTS

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS
		M2	M2			
Staff WC	1	2.0	20			
Consulting / Relatives / Interview /						
Counselling	1	13.5			9.6	
Sub Total for cluster			221.0		217.4	- 3.6
Total for 4no generic cluster			884.0		869.6	

ERŜ		m Area ortfall % <i>tar</i> get	Can area variance be explained by design tolerance?	Functionality to be determined at RDS/1:50 planning stage	Will more area be required/can shortfall be designed out?	BE comment
	-3 9	-28 9%				
-3.6						

DUTPATIENTS	1												
Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room Area shortfall		Can NA plan	Functionality to be determined at	vviii more are	a	BE comment
Koon Type	Quantity				DC	DIFFERS		explained by design	room in this area	RDS/1:50 planning stage	required/car shortfall be designed out		De comment
		M2	M2	Associate with an OPD			sqm % target	tolerance?	-	01080			
ENT & Audiology		1.1.1.1		Generic Cluster									
ENT Treatment/Consulting room	3	13.5	100	only 2 provided bybidder	23 7	7	-16.8 -41.5%						
In reamendorsaming room	5	15.5		1 of 2 below brief area -	23		100 41 5%						
				NB - Refer to New									
udiometeric Test Room	2	16.0	32.0	National Standards									
nterview / Hearing Aid/Consulting room	3	13.5	1000		34 9		-56 -138%						
lean Utility/Scope	1	8.0		not provided by bidder	0.0		-80 -100 0%					add	
Dirty Utility/Scope	1	8.0		not provided by bidder	0.0	)	-8.0 -100.0%					add	
Patient WC (disabled)	1	4.5		not provided by bidder	0.0	)	-45 -1000%					add	
Sub Total			133.5		91.3	-42.3							
Pre Op Assessment Area													
Nating Area	1	20.0	20,0										
Reception	1	11.0	11,0										
NC - Disabled Size	1	4.5	45										
Consult / Exam Room	8	13.5		Single sided access									
reatment room	1	13.5	135										
tean Utility / Store	1	8.0	8.0										
Dirty Utility	1	6.0	6.0										
lurse base & Physical measurement bay		8.0		not provided by bidder	0 0	)	-80 -100 0%					add	
htebotomy room	1	8.0	8.0										
tore Room	1	4.0	4.0										
Specimen / Disabled WC	1	4.5		With hatch to dirty utility	4 :		-02 -44%						
inen Cupboard	3	1.0		not provided by bidder	0.0	0	-1.0 -100.0%					add	
Patient WC (disabled)	1	4.5	4.5										
Staff WC	1	2.0	20										
Sub Total			203.0		229.	6 26.6							
	h		200.0		223.	20.0							
Orthopaedic / Fractures Clinic				Link with Genenc OPD Cluster									
Orthotics Base & Fitting Room	3	24.0	24 0										
Staff Base / Reception Point	1	50	50		-								
nan base medepilon rome		50	30	Link back to back with	10								
				generic OPD cluster's									
Valting Area	3	24.0	240	waiting area									
Plaster Room (with 4 cubicles) & Store	1	32.0	32.0		40								
Store: Plaster	1	320	320		10								
Store: Equipment	1	6.0	60		10								
Consult / Exam	8	13.5	108.0		-								
	1	4.5	100.0	not provided by bidder	0.0	2	-4.5 -100.0%					add	
Patient WC (disabled)		4 3		HOLDIONIDED DY DIDDEL	0.0							006	
Sub Total			206.5		220.0	13.5							
Diabetic Centre					1								
		6.0	6.0										
Staff Base / Reception Point	1	5.0	5.0		-		0.0 +0.00						
Waiting Area	1	18.0			14_	(	-33 -18,3%						
Height & Weight Bay	1	3.5	3.5										

#### 18/12/20 09

Functionality Will more area

required/can

shortfall be designed out?

add

BE comment

OUTPATIENTS

Room Туре	Quantity	Size	Total	Comments	BE	DIFFERS	Room shor	fall	variance be		determined at	v
		M2	M2				sqm	% target	explained by design tolerance?	area	planning stage	0
Clinic Nurse (BP + Vision)/ consulting roo	1	13.5	13.5									
Phlebotomy + Blood Testing Lab	1	12.0	120									
Consult / Exam Room	2	13.5	270	These are linked to Lab								
Consult / Exam Room	2	13.5	27.0									
Interview / Office/ consulting room	2	13.5	27.0									
Podiatry Room	3	24.0	24.0	With low level sink. Chair side on to good daylight split room								
Multi-function / Sp Nurse/cons/exam	3	13.5	11115		13	.1	-0.4	-3.0%				
Storage Cupboards	6	0.5		not provided by bidder - 0.5m deep & 1m high doubles	0	.0	-30	-1000%				
Staff Resource / Education / Meetings	.1	40.0	40.0									
Clean Store	1	40	4.0									
speciman/disabled WC	2	4.5	910	only 1 provided by bidder additional wc added	3	9	-5 1	-567%				
Sub Total			226.5		232	.6 6.1						

OUTPATIENTS

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS
		M 2	M2			
Ophthalmology Clinic						
Datiant Samanan		13.5	10.6	Locate with Ophthalmology, but separate service		
Retinal Screening		5.0	5.0			
Staff Base / Reception Point	4	15.0	15 0		23.3	
Orthoptic Examination Room/consulting		15.0		With 6m Snellen line	23.3	
Optometry room/consulting	4	13.5	13.5	www.iom onenen inte	19.0	
Visual acuity testing/ cons room	4	20.0	20.0		22.4	
OCT examination room	1	18.5	18.5		21.8	
Flounne angiogram room		18.5	185		20.4	
Laser Room		13.5	13.5		15.4	
Fields Testing/cons/exam room	1	13.5	13.5		15.6	
Consult / Exam	7	13.5	94.5			
Patient WC (disabled)	4	4.5		not provided by bidder	0.0	
additional cleaners room					8.0	
Sub Total			248.5		289.9	41.
Multi Test Areas	- X		100			
Lung Function Lab	1	40.0	40.0			
Respiratory Investigation/Exercise test ron	1	20.0	20.0			
Vascular Lab	1	16.0			15.0	
Sub Total			76.0		76.1	0.
Urology Clinic - Urodynamics				Name and a second state of the		
Sub-waiting with Vending	1.	11.0	-		9.0	
Treatment room (with prep area)	1	16.5	16.5		22.5	
Ensuite WC (to treatment room)	1	4.5	4.5			
Patient WC (disabled)	2	4.5	9.0			
Technical area	1	44.0			41.2	

RS	Room short sqm	fall	Can area variance be explained by design tolerance?	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage	will more area	BE comment	
41.4								
0.1	-1.0	-6 3%						
	-20	-18 2%						
	-2.8	-6.4%	i.					

# OUTPATIENTS

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS
		M2	M 2			
Sub Total			85.0		92.8	7.
Total Net			2240.5		2243.7	3.
Planning allowance	0.05		112.0			
Sub-total			235 2 5			
Engineering Allowance	0.03		70 6			
Circulation	0.31		729.3			
Total			3152.4			
Cardiology OPD & Testing		- 1	432.7	see below for schedule		
Cardic Rehab			291.2	see below for schedule		
TOTAL: OPD, Cardiology & Cardia	c Rehab		3876,3			

RS	Room Area shortfall sqm % target	Can area variance be explained by design tolerance?	Can NA plan functional room in this area	to be determined at	Will more area be required/can shortfall be designed out?	BE comment
7.8						
3.2						

#### CARDIOLOGY - OUTPATIENTS & TESTING

Room Type	Quantity	Size	Total	Comments			
		M2	M2				
All Rooms							
Sub-reception / Admin / Staff Base	.1	14.0	14.0				
Patients bed/trolley waiting area: 1 place	1	6.0			58		-02
Sub-waiting area 15 places, incl 2 wheel	1	25.5			237		-1.8
Drinking water dispenser	1	0.5	0,5				
Visitors & patients wc: Ambulant user	1	25			23		.0.2
Visitors & patients wc Disabled/ wheelcha	1	4.5	4.5				
Ambulant patients changing cubicle	2	1.5	3.0				
Disabled/wheelchair patients changing cu	1	3.5	3.5				
Linen bay/dirty linen (patient changing)	1	05	0.5				
				not provided by bidder - 4			
Outpatient ECG Examination room	1	36.0		trolleys	0.0		-36 0
Dirty Utility - OPD Type	1	6.0	6.0				
Resuscitation Trolley Space	1	1.0	1.0				
Echocardiography room	3	18.0	54.0				
Exercise ECG room	2	18.0	36.0				
Echocardiograph viewing room 2 worksta	1	120	1000		11.8		-0.2
Tilt table room	1	16.0	16.0		15.1		-09
Consulting / Examination room	2	16.5	11, <u>11</u> 3 0		23.7		-9.3
Consulting / Examination room - single sit	1	13.5	13_5				
Counselling/interview room 5 places	1	10.0					-10.0
Technicians Tape Reading Office: 3 place	1	18.0	18.0	not provided by bidder	0.0		
Sterile supplies store		6.0	6.0				
Equipment store	:1	6.0	6.0				
additional Dual echocardiography rm					30.6		
Total Net			307.5		344.9	37.4	

-02	-3.3%
-1.8	-7 1%
-02	-8 0%
-36 0	-100 0%
	-1 7%
	-56%
-9,3	-28 2%
-10.0	-100 0%

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room / short	all ,	Can area ariance be		determined	at rec	l more area be quired/can	BE comn	ient	
								e	design	, room in thi area	planning	sh	iontfall be igned out?			
		M2	M2				sqm 9	a target	tolerance?		stage	400	agine egri			
Planning allowance @ 5%	0.05		15.4													
Sub-total			322.9													
Engineering Allowance @ 3%	0.03		9.7													
Circulation @ 31%	0.31	_	100.1													
			432.7		I											
					I											
CARDIAC REHAB Gym/ Main excerse area		135.0	135.0		152 6											
CARDIAC REHAB Gym/ Main excerse area Physiotherapy - assessment/Ireatment	1	135 0 16 0	135.0 16 0		152 6 18.7											
CARDIAC REHAB Gym/ Main excerse area Physiotherapy - assessment/Ireatment Lockers/changing - male	1	135 0 16 0 20 0	135.0 16 0 20 0													
Gym/ Main excerse area Physiotherapy - assessment/Ireatment Lockers/changing - male Lockers/changing - female		135 0 16 0 20 0 20 0	135.0 16 0 20 0 20 0		18.7		-19	-11.9%								
CARDIAC REHAB Gym/ Main excerse area Physiotherapy - assessment/Ireatment Lockers/changing - male Lockers/changing - female	1 1 1 1 4	135 0 16 0 20 0	135.0 16 0 20 0 20 0				-1.9	-11.9%								
CARDIAC REHAB Gym/ Main excerse area Physiotherapy - assessment/Ireatment Lockers/changing - male Lockers/changing - female Shower rooms	1 1 1 1 4	135 0 16 0 20 0 20 0	135.0 16 0 20 0 20 0	2 of 4 below brief area	18.7		-1.9	-11.9%								
CARDIAC REHAB Gym/ Main excerse area Physiotherapy - assessment/Ireatment Lockers/changing - male Lockers/changing - female Shower rooms Sub Total	1 1 1 4 0 05	135 0 16 0 20 0 20 0	135.0 16 0 20 0 20 0	2 of 4 below brief area	18.7		-1.9	-11.9%								
CARDIAC REHAB Gym/ Main excerse area Physiotharapy - assessment/Ireatment Lockers/changing - male Lockers/changing - female Shower rooms Sub Total Planning allowance @ 5%	1 1 1 1 4	135 0 16 0 20 0 20 0	135.0 16 0 20 0 20 0 <b>207.0</b> 10 4 217 4	2 of 4 below brief area	18.7		-1.9	-11.9%								
CARDIAC REHAB Gym/ Main excerse area Physiotharapy - assessment/Ireatment Lockers/changing - male Lockers/changing - female Shower rooms Sub Total Planning allowance @ 5% Sub-total	1 1 1 1 4	135 0 16 0 20 0 20 0	135.0 16 0 20 0 20 0 <b>207.0</b> 10 4	2 of 4 below brief area	18.7		-1.9	-11.9%								
CARDIAC REHAB Gym/ Main excerse area Physiotherapy - assessment/Ireatment Lockers/changing - male	1 1 1 4 0.05	135 0 16 0 20 0 20 0	135.0 16 0 20 0 20 0 <b>207.0</b> 10 4 217 4	2 of 4 below brief area	18.7		-1.9	-11.9%								



## **Complex Needs Cluster**

Number of Beds Percentage Single Rooms			0%										
Description	Qty	Unit Area m²	Total Area m³	Comments	BE	DIFFERS	Room shor				Functionality to be determined at RDS/1:50 planning stage	designed out?	d BE comment
							sqm	% target	tolerance?		planning stage		
Bed and Sanitary Facilities Acute single bedroom (incl family & clinical													
support space)	12	16.5	- 29.0	10 of 12 rooms below brief area	192 2	2	-5.8	-2 9%	VAS	ves	ves	designed out	
En-suite assisted shower/wc/whb	12	4.5	54.0	(as per HBN 00-02)	152.0	-	0.0	2 3 10	100	100	100	designed bar	
Sub-Total			252.0		258.2	62							
Patient Support Facilities													
Consultation/Examination Room	1	16.5	1.7		15.8	3	-0.7	-4 2%	yes	yes	yes	designed out	
Interview/sitting room: 5 places					7 9		-1.1	-12 2%	yes	yes	yes	designed out	
Nurses Station	-1	8.0			7 8	В	-0 2	-2 5%	Yes	yes	yes	designed out	
Resuscitation trolley parking bay 1 trolley	4	2.0	2.0										
Pantry/Beverage making area	11	12.0	12.0										
Ward Food trolley parking bay	1	1.5		nol provided by bidder	0.0	0	-15	-100 0%	no	?	yes	designed out	add small park space for trolley easily added
Wheelchair bay	1	4.0	4.0	0									
Sub-Total					50.2	2 -2 8			yes				
Backup storage	-				1								
Linen Irolley parking bay	6	1.5	1.5										
Clinical store/Controlled Drug Cupboard		1.0			5.0	0							
Store - Equipment - Large	1	15.0	15.0	split into two stores by bidder									
Sub-Total			18.0		22.1	8 4.8							
Utilities					-								
Dirty utility/Sluice/Test Room - small Clean Utility Room	1	6 5 12 0			10 ;	3	4.7	-14 2%	105	ves	1105	designed out	
Disposal Hold/bay - large	1				10 .	0	- 0,7	-1+6 270	162	162	yes	designed out	
Cleaners room	1												
Staff wc & wash Ambulant user	2												
Switchgear cupboard	3												
Sub-Total			38.5		40.3	3 1.8							
Office and administration services													
Reception / Clerk: 1 position open to	1												
comdor		8 0	8.0										
Office Incl.meeting area: 1 place		1 44 1 4			11.3	7	-0 3	-2 5%	yes	yes	yes	designed out	
Charge Nurse Office	1												
Printer/IT/administration store	2.0	0.0			4.1	7	-13	-217%	yes	yes	yes	designed out	
Waiting area 5-10 persons		16.0											
Staff locker bay		1.5	5 1.5										
Sub-Total			52.5		52.5	5 0.0							
SUD-10tal			52.5		52.	<b>9</b> U.U							

Rehabilitative Therapy Area												
ADL bedroom with living assessment	1	18.0	18.8		17.6		-04	-2 2% yes	yes	yes	designed out	
ADL wc/bathroom/shower	1	13.0	13.8		12 5		-0 5	-3 8% yes	yes	yes	designed out	
ADL Kitchen	a	27.0	27-0 1	not provided by bidder	0.0		-27 0	-100.0% no	yes can swop for extra room		no issue on plan	requirement not on original schedule. However, extra space is provided is in the light activity area which appears not to be needed anymore look at the plan.
Treatment Area	Э	13.0	13.8	not provided by bidder	0.0		-13 0	-100 0% no	yes can swop for extra room		no issue on plan	requirement not on onginal schedule. However, extra space is provided is in the light activity area which appears not to be needed anymore look at the plan.
Equipment Store	1	20.0	20.0									
additional light activities area					40.0							
Sub-Total			91.0		90.1	-0 9						
Total net			505.0		514.1	9.1	-53 5	-11%				general comment. New rooms have been added from the original breft supplied. E.g. the ADL kitchen and treatment room. However, the light activity area makes up the area therefore there isn't a problem. This can be picked up in the replan during 1/200 development.
Planning allowance	5%	-	253									
Sub-total			5303									
Engineering Allowance	3%		15.9									
Circulation	31%6		164.4				1					This is the BE total area (see comment next to
Total			710.5		5652.5		4			and the state		box)

	Qty	Unit Area m <sup>z</sup>	Tota! Area m²	Comments	BE	DIF	FERS	Room short	Maki .	Can area variance be explained by design	room in this		Will more area be required or can shortfall be designed	
OPD CLUSTER							12	sqm	% target	tolerance?	area	Planning stage	out?	
Based on Generic OPD Cluster														
mergency Centre OPD Cluster														
laiting Area	1.0	12.0	12.0			35.6								
/C - Disabled Size	1.0	4.5	4.5											
urse Base & Physical Measurement Bay	1.0	8.0		Adjacent to waiting area		6.2		-1.8	-22.5%	по	yes	yes	designed out	
onsult / Exam Room	3.0	16.5	49.5											
lean Utility or Store	1.0	12.0				11.4		-0.6	-5.0%	yes	yes	yes	designed out	
irty Utility	1.0	6.0				5.2		-0.8	-13.3%	по				
tore Room	1.0	4.0	4.0											
pecimen / Disabled WC	1.0	4.5	4.5	With hatch to dirty utility										add room store is larger than
nen Cupboard	1.0	1.0		not provided by bidder		0		-1.0	-100.0%	по	?	yes		required therfore no issue.
taff WC	1.0	2.0	2.0											
ub Tota!			103.5			125.7	22.2							
otal net			103.5	; ;		125.7	22.2	-4.2	-4%					
lanning allowance	5%		5.2											
ub-total			108.7	1										
ngineering Allowance	3%		3.3											
irculation	31%		33.7											
							2							This is the BE total area (see
otal			145.6			5652.5			-					comment next to box)

#### **REHAB & THERAPY DEPARTMENT**

Main Facilities

inpatient service co-located with wards

Activity	Qty	Unit Area m²	Total Area m²	Comments	BE	DIFFERS	Room Area shortf <sub>a</sub> ll	Can area variance be explained	olan	determined at RDS/1:50	Will more area be required/can shortfall be	BE comment
							sqm % target	by design	this area	planning stage	designed out?	
Entrance, reception & waiting facilities							Sqiii 78 taiget	tolerance /				
Vehicle drop-off point	1		0.0	External allowance								
Car parking spaces	1	(	0.0	External allowance								
Car parking spaces for people with disabilities	1		0.0	External allowance								
Parking bay 3 wheelchairs	1	20	2.0									
Reception: 2 staff	1 21	10.0	10.0									
Waiting area 10 persons including 3 wheelchair users	ä	19 5	19 5	5	27	1						
Refreshment drinking water dispenser	1	0.5	5 0.5									
Refreshment vending machine	1	30	3.0									
WC dual access & handwash: accessible, wheelchair assisted	2	5.5	11.0		10	2			Yes	Yes	Noffes	
WC & handwash semi ambulant	3	2 5	7.	5								
Sub Total			53.5		64.	2 107						
Administration facilities												
Office 6 staff base	3	27.5	82.5	1								
Conference/meeting room 10 persons	1	20.0	20 0		25.	9						
Sub Total			102.5		112	.6 10_1						
Ortholics /OT												
Preparation & splint fitting room		35.0	35.0		39	1						
Splint Store	1	6.5			6	3						
Treatment Room	1	30.0	30.0		34.	7						
Treatment cubicles: 2 patients	1	20.0	20.0	l	20	2						
Sub Total			91.5		100.	3 8.8						
Physiotherapy facilities												
Activity area: Physiotherapy, 5 patients	1	50 0	50.0		89.	1						
Activity area/gymnasium Physiotherapy, 15				also for exercise /								
patients	1	100.0	100.0	classes 20 to 30 people	113	7						
Treatment cubicles Physiotherapy, 10 patients	1	100.0			109	.5						
Sub Total	1	1	250.0		312.	3 62.3						

Main Facilities

#### REHAB & THERAPY DEPARTMENT

inpatient service co-located with wards

Activity	Qty	Unit Area m²	Tota! Area m <sup>3</sup>	Comments	BE	DIFFERS
Shared Treatment Rooms						
Group Area - Shared	1	50.0	50 0		53.4	
Treatment Room - 1 patient	6	15.0	90.0	3 of 6 rooms below brief		
Patient changing room with cubicles, shower & wash: 10 places	ī	15.5	16.5		15 2	
Patient changing room with cubicles, shower & wash: 10 places	1	15.5	1111 25.5		15.3	
Store: exercise equipment, activity area	1	6.0			10.4	
Store: exercise equipment, activity area	1	9.0	90		10.8	
Store: exercise equipment, therapy treatment cubicles	1	6.0	6.0		9.6	
Sub Total			192.0		221.0	29.0
Staff support facilities					3	
Staff changing room with cubicle & handwash, 10 places	1	14 0	14.0		17 0	
Staff changing room with cubicle & handwash, 20 places	3	18.0	18.0		18.4	
WC & handwash: accessible, wheelchair assisted	1	4.5	4.5			
WC & wash ambulant	3	2.0				
Shower: ambulant (non patient)	1	2.5	2.5			
Sub Total			45.0		53.4	8.4

	BE comment	BE comment	Will more area be required/can shortfall be designed out?	Functionality to be determined at RDS/1:50 planning stage	Can NA plan functional room in this area	Can area variance be explained by design tolerance?		Room shor gm	
-0.3 -1.9% yes Yes Yes No/Yes		There is sufficient total area - the rooms adjusted during Design Development Si	No/Yes	Yes	Yes				
			Norres	Yes	Yes	yes	-1 9%	-0 3	
-0.2 -1.3% yes Yes Yes NorVes			No/Yes	Yes	Yes	yes	-1 3%	-0 2	

## REHAB & THERAPY DEPARTMENT

Main Facilities				inpatient service co-loca	ited with	wards							
Activity	Qty	Unit Area m²	Total Area mª	Comments	BE	DIFFERS		n Area ortfall	Can area variance be explained	Dlan	determined at RDS/1:50	Will more area be required/can shortfall be	BE comment
							sam	% taroet	by design tolerance?	this area	planning stage	designed out?	
Support facilities							- Oquu						
Parking bay resuscitation trolley		1.0		not provided by bidder	0.0	0	-1.0	-100.0%		Yes	Yes	Norres	Area will be altocated during Design Development Stage
Clean utility no controlled drugs		90	9.0		10 5	5							
Dirty utility urine test	1	90	9.0		8.8	3							
						_							There are 3xstores which have been provided by BE with a total area of 28.1m2. The Briefed area for this is 21m2, therefore there is sufficient over provision
Store general	- 1	6.0	And and a state of the local division of the	not provided by bidder	0.0		-6 (	-100.0%		Yes	Yes	No/Yes	to create the missing store.
Cleaners (Housekeeping) room	1	7.0	7.0		7.8	В							Description of deal and the start de Anti-Market (Barrier
Hold disposal	1	6.0	0.5	not provided by bidder	0_0	D	-6.0	-100 0%		Yes	Yes	No/Yes	Room is provided adjacent to Activity Area (Room No. NSGH-00-OPD-032)
			12224 0110										Area will be provided as part of M&E provision
Switchgear cupboard	1	2.0	2.1	not provided by bidder	0.0	D	-2 0	-100 0%		Yes	Yes	Norves	(areas have been allocated on current plan)
Sub Total					27.	1 -12.9							
Sub Total	_	1	774.5		890.	9 116.4	-15.5	5 -2%					
Planning	5%		38.7 813.2										
Engineering	3%		24.4										
Circulation	21%		170.8										
Total		1-11-	1,008.4		1209								This Is the BE Total Area

## DERMATOLOGY OUTPATIENT & DAY CASE DEPT

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room short		Can area variance be explained by design	plan	determined at RDS/1:50 planning	Will more area be required/can shortfall be designed out?	BE comment
		M2	M2				sqm	% target	tolerance?		stage		
Staff Base / Reception	1	16.0			14 :	2	-1 8	-113%		Yes	Yes		Library over area by 1.6m2 - move adjoining wall and re-provide space to Staff Base/Reception
Physical Measurement	1	8.0	8.0										
Waiting Area (30 persons incl 4 w'chair spaces)	1	48.0		May be split to allow for a sub waiting area near trealment rooms	53	5							
WCs - ambulatory assid	2	2.5	5.0										
WC - Wchair	1	4.5	4 5										
Consult / exam Room (dual sided access)	6	16 5		6 of 6 below brief area	96	7	-2 3	-2.3%		Yes	Yes	No/Yes	Waiting over area by 5.5m2 - adjust walls and re- distribute area to C/E rooms
Consult / exam Room (single sided access)	4	13 5	54.0										
Prep Room / clean utility room	2	12.0	24.0										
Biopsy Room with Prep area	3	16.5	1	3 of 3 below brief area	48	3	-12	-2.4%		Yes	Yes		Waiting over area by 5.5m2 - adjust walls and re- distribute area to C/E rooms
Leg Ulcer Treatment Room	1	16.5	1165	With low level sink	16	1	-0.4	-2 4%		Yes	Yes	No/Yes	
Treatment room - general	3	16.5	49.5										
Counsel / Interview	1	13.5	13.5										
Shower / WC / WHB	1	6.0			5	2	-0.8	-13 3%		Yes	Yes	Norres	
Patients Waiting (following and between treatments)	3	14.0	14.0										
Resuscitation trolley parking bay 1 trolley	1	1.0	1.0										
Phototherapy Suite (UVA / UVB / Hand & Foot) Suite	ä	40.0	40 0	Includes 2 x changing cubicles. Run by 1 nurse - so each box / booth in open view moved from ward	40	1							
Dirty Utility	1	9.0	9.0										
Staff WC	1	20	2.0										
Resource Library/patient information	1	18.0	18 0		19.	5							
2 Person Offices	1	12 0	12 0										
workstation area (x 6)	1	24.0	24.0		24	2							
Disposal Hold	1	10.0	100										
Cleaners Room	1	7.0			5	7	-1.3	-18 6%		Yes	Yes	Norres	
Linen Cupboard	1	20			1	9	-0 1	-5 0%		Yes	Yes	No/Yes	
Sub Total			532.5		550.	2 17,7							
Dermatology Sub Total			532.5				-7 9	-1 5%					
Planning allowance	5%		26.6										
Sub-tolal			5 59 1										
Engineering Allowance	3%		16.8										
Circulation	31%		173 3										
TOTAL	1000		749.2		803	in the second			Contract Contractor		and the second	the second second	This is the BE Total Area

## Dialysis Unit (30 Stations)

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS		m Area ortfall	Can area vanance be		Functionality to be determined at RDS/1 50	Will more area be required/can shortfall be	BE comment
		M2	M2				1	¥	explained by design	room in this area	planning stage	designed out?	
Entrance, reception & waiting facilities		MZ	M2				sqm	76 target	tolerance?				
Vehicle drop-off point			0.0	External allowance Designated									
venice drop on point			0.1	External allowance Dedicated									
Car parking spaces	t 2		0.0	) space									
our parking spaces				External allowance Dedictaed	1								
Car parkino spaces for people with disabilitie	4		0.0	) space									
			ALSO D	not provided by bidder - Includes									Dialysis Unit is on Level 2 - no external Entance
Main entrance draught lobby	1	11.0		entrance canopy area	0.0			0 -100 0%		n/a	n/a	n/a	provided/required
Public telephone single booth	1	1.5	1.1		1.1		-D	4 -26 7%		Yes	Yes	Norres	
Public lelephone single booth, accessible	1	20	1		1.1		-0	9 -45 0%		Yes	Yes	No/Yes	
Reception & office: 6 staff	1	36.0	1 11	Includes record storage	29.8	3	-6.	2 -17.2%		Yes	Yes	No/Yes	
Waiting area 30 persons including 2 wheeld	3	44 0	44 (										
Parking bay 5 wheelchair spaces	1	5.0	5.0	0									
Refreshment: vending machine	1	3.0			20	)	-1	0 -33 3%		Yes	Yes	No/Yes	
Sub Total					93.5	-9.0							
Counselling, interview, consulting/examin	ation & t	reatment	facilities										
Physical measurement area Renal	3			t of 3 under brief area	23.7					Yes	Yes	No/Yes	
Consulting & examination room: sinole side	2			D									
Treatment cubicle dialysis, 1 patient	24	13	<u>908</u>	only 20 provided by bidder - Multi-areas - 3no x 8 recliners	269 5	5	-54.	5 -16.8%					Only 20 requested in SOA - this is an additional Board request which was not included in the submitted design. 270m2 was originally requested and has been provided by BE Only 4 requested in SOA - this is an additional Boar request which was not included in the submitted
			ALC: N	and a second at the biddee		24							design. 54m2 was originally requested and has been
Isolalion treatment room diatysis, 1 patient	6			only 4 provided by bidder	54,4		-20.	6 -32.8%					provided by BE
Treatment room Continuous ambulatory per													
Training room & office Pentoneal Dialvsis (F	1	16.5	5 16.5										
additional Treatment nn diatysis, 1 patient			-	6 <u>@</u> 13 5	810	>							
Sub Total			505.	5	519.6	5 14.1							This TOTAL = 586.5m2 when the additional Board areas are included to the original Brief.
Current des Millers Oliviani	_		-										
Support facilities: Clinical Staff base 4 staff	2	12 (	24.0	0									
Clean utility	2												
Dirty utility: bedpan disposal & unne test	2												
Sub Total			76,	0	79.9	3.9							
Visitors & patients support facilities		1	-										
Patient changing room 15 places	2	15 (	30.0	0									
													Room needs to be added as part of Design Development. Department requires re-design to sui amended Board Brief re: number of Treatment
Shower & wash: assisted	2	4	11.54	only 2 provided by bidder	9	1		4 -32.6%		Yes	Yes	Norres	cubicles.
WC & handwash semi ambulani	1				0			-01.01		1.45		100.100	
WC & handwash accessible, wheelchair as:		4											
Paniry serving 30 persons	1												

18/12/2009

A51115531

### Dialysis Unit (30 Stations)

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room shor				Functionality to be determined at	Will moro area be required/can short(al) be	BE comment
		M2	M2				sam	% target	explained by design tolerance?	room in this area	RDS/1:50 planning stage	designed	
Staff support facilities: Offices													
Interview & counselling room 5 persons	- 2	9.0	0 18.0	0									
Office: 1 staff	1	10 9	5 10	5									
Office 2 staff	1	13.0	D		12 6	5	-0 4	-3 1%		Yes	Yes	Norves	
ub Total			41.5	5	41.3	-0,2							
staff support facilities: Sanitary & changin	g												
Staff changing room: 10 places	1	8 (											
Slaff changing room: 20 - 30 places	1	16 (											
Shower: ambulant (non patient)	3			5 Separate males & females									
NC & wash ambulant	4			Separate males & females									
VC & handwash: accessible, wheelchair as:	1	4.5	5 4.	5	-								
Sub Total			44.0	D	46.5	2.9							
Staff support facilities: Education & trainin	ng				1								
Seminar room: 20 persons	1	30 (	o Anto	To be located such that it can provide future expansion space for dialysis stations	25.8		.4 2	-14 0%		Yes	Yes	Norves	Room to be reviewed as part of Design Development. No additional area will be added as there Is sufficent allowance - BE proposal is 143m over SOA Briefed area.
Sub Total			30.0	0	25.8	-4.2							
Support facilities: Holding & storage													
Parking bay resuscitation trolley	1	1.0	0 1.0	D									
													Store provision to be reviewed as part of Design Development. No additional area will be added as there is sufficient allowance - BE proposal is 143m
Store: fumiture, equipment & disposables	1	40.0	0		35 3	3	-4.7	-11.8%		Yes	Yes		over SOA Briefed area. Store provision to be reviewed as part of Design Development. No additional area will be added as there is sufficent allowance - BE proposal is 143m
Store equipment & renal consumables	1	25.0	0		16.1		-8.9	-35 6%		Yes	Yes		over SOA Briefed area,
Store. linen	1	9.0			8.1		-0 9	-10.0%		Yes	Yes	NofYes	
Cleaners (Housekeeping) room	1	7.0	0 7.0	D									
Hold disposal	1	10.0			9 8	1	-0.2	-2 0%		Yes	Yes	NoNes	
Sub Totał			92.0	0	79.4	-12.6							

# Page 109

### Dialysis Unit (30 Stations)

Room Type	Quantity	Size	Total	Comments	BE	DIFFERS	Room Area shortfall	Can area variance be	Can NA plan functional		Will more area be required/can shortfall be	BE comment
		M2	M2				sam % terget	explained by design tolerance?	room in this area	RDS/1:50 planning stage	desis ned	
Support facilities: Equipment maintenan	ce											
				2 of 2 below brief area - Covers								
Equipment Servicing	2	24.1	0 48	0 whole renal service	42.8				Yes	Yes	NoYes	
Live Test Area	1	6		0 Covers whole renal service								
Ready Use Equipment / OutLobby	1	9	0 9	0 Covers whole renal service								
Component Store	2	16	0 32	1 of 2 under bnef area - Covers 0 whole renal service	1				Yes	Yes	Norres	
Sub Total			95	0	90.8	-4.2						
Support facilities: Engineering & plant			-									
S witchgear room	1	4										
Computer communication IT hub room	1	90	0 9	0								
Plant room: water treatment				See M&E Specification for water treatment plant and space required - a dditional to brief	15.4							No area allocated in previous SOA - 15.4m2 allower for by BE.
			13.	0	26.7	13,7						
Total Net		U	1003	5	1072,3	2.8	-124.3 -12%					
Planning allowance @ 5%	5%		53	.5								
Sub-total			1123									
Engineenng Allowance @ 3%	3%		33									
Circulation @ 27%	27%		303	.2		4						
TOTAL OF DIALYSIS		1000	1459	.9	1603						and the second division of the second divisio	This is the BE Total Area



## NSGH - Adult Hospital ACCIDENT & EMERGENCY DEPARTMENT

# Page 110

Activity Space	No:	Unit Area m²	Total Area m²	Comments	BE	DIFFE	RS	Room shor		explained	functional room in	Functionality to be determined at RDS/1:50 planning	Will more area be required or can shortfall be designed out?	BE comment
								sqm	% target	by design tolerance?	this area	stage		
Entrance, reception & waiting facilities Car parking spaces for people with							11							
disabilities & parents with young children														
Main entrance draught lobby	1	11.0	11.0	Ambulatory Entrance	26	5.3								
Main entrance draught lobby	1	15.0	15.0	Ambulance Entrance	15	5.5								
Decontamination Facilities	C	) 75.0		(breakdown below)	77	7.2		77.2	#DIV/0!	по	no	Yes	our drawings with	allocation shown externally as Decontamination requirements were no n described as internal space throughout DD.(thought to be external) this is show on A&E plans See NA-XX-00-PL-252-205
Vestibule area	á	18.0	18:0	not on Brookfield SoA		0.0				see above	see above			
Shower room	1	16.0	18:0	not on Brookfield SoA	c	0.0		-16.0	-100.0%	see above	see above	see above		
Dressing Area	1	18.0		not on Brookfield SoA	C	0.0		-18.0	-100.0%	see above	see above	see above		
Storage	â	23.0		not on Brookfield SoA	c	0.0		-23.0	- 100.0%	see above	see above	see above		
Parking bay 6 wheelchairs	2	6.0	1.121	only one provided	6	5.2		-5.8	-48.3%	no	?	yes	designed out	no effect
Parking bay: 3 accident trolleys & 3 wheelchairs	2	12.0	24.0											
Reception: 4/5 staff	3	1 12.5	12.5		11	1.8		-0 7	-5 6%	yes	yes	yes	designed out	no effect
Notes store & Photocopying		10.0	10.0	Behind reception										
Waiting area: 60 persons including 5		05.0												
wheelchair users	3	85.0			71	1.4		-13.6	-16.0%	no	yes	yes	designed out	no effect
Waiting play area, 10 children	1	18.0	18.0											
Public telephone; single booth, accessible	3	3 2.0	6.0											
Refreshment: drinking water dispenser	2	2 0.5	1.0											
Refreshment, vending machine	2	2 3.0	6.0											
WC & handwash: semi ambulant	8	3 2.5	20.0	Seperate Male & Female										
WC & handwash: accessible, wheelchair assisted		4.5												
Nappy change room with handwash	1	4.0	4.0											
Infant feeding room	1	1 5.5												
Sub Total			309.5		325	5.7	16.2							
CPN, Social care & distressed/disturbed p	ersons f	acilities	-											
Interview Room		11.0	110	Dual access required										
CPN / Social Work Bases / Police Office		40.0		Block Allowance	44	1.9								
WC & handwash; accessible, wheelchair independent/assisted	8	4.5												
Special room: distressed/disturbed patient	9	1 11.0	11.0	Dual access required	12	2.5								
WC & handwash; accessible, wheelchair independent/assisted	ž	4.5	i 4.5											
Sub Total			71.0		78	3,5	7.5							

NSGH - Adult Hospital Assessment & Treatment facilities	- 1	-					edules of Accom				
			312.0 5 of 26 cubicles below brief								Page 1 <sup>2</sup>
Generic Assess / Treatment room: A&E	26	12.0					yes	yes	yes	designed out	no affect on area
MIU Assess & Treat Room	4	13,5	54.0 Dual Access Rooms (i.e. 2 doors)								
Waiting area: 10 persons including 1 wheelchair user	2	16.5		30.1		-2.9	-8.8% yes	yes	yes	designed out	
WC & handwash. specimen; accessible, wheelchair	2	4.5	9.0								
Treatment room: A&E, head & neck & Opthalmology	2	16.0	32.0 With monitoring								
Treatment room: A&E, gynaecology/genitourinary colposcopy	1	16.0	16.0 With monitoring								
WC & handwash: accessible, wheelchair assisted	1	4.5	4.5								
Plaster Room (with 3 cubicles) & Store	1	32.0	32.0	34.7							
Staff & communication base: 15 staff	1	35.0	35.0								
Supplies base	1	20.0	<b>当</b> 日日	17.4		-26	-13.0% yes	yes	yes	designed out	
Patient resuscitation facilities											
Resuscitation room: 6 places	1	172.0	172.0 One bay equipped for babies, children & young people ??	180.1							
Major Procedures Room	2	29.0	58.0	100.1							
CDU / Assessment - First 4 Hours	~	20.0	55.5								
Distressed & bereaved persons facilities											
Relatives sitting room	2	16.0	32.0 Family and friends								
WC & handwash. accessible, wheelchair assisted	2	4.5	9.0 En-suite								
Body viewing/bier room	2	10.0	20.0 Dual access								
Support facilities: Clinical											
Dirty utility: bedpan disposal & urine test	2	12.0	24.0								
Parking bay: ultrasound unit	1	1_0	1.0								
Sub Total			863.5	915.1	51.6						
Ctaff Swagart Facilities											
Staff Support Facilities Staff Facilities Area											
Rest, Office with Shower	1	50.0	50.0 Block Allowance								
Sanitary & changing	1	50.0	SS. S DIGR ANOWANGS								
WC & wash: ambulant	12	2.0	24.0								
Shower: ambulant (non patient)	4	2.0	10.0								
		2.5	20.0								
Staff changing room 40 places	1	40.0	40.0								
Staff changing room 80 places		40.0	40.0								
Staff support facilities: Offices		10.5	ACC	40.0		-2.0	-4.8% yes	yes	yes	designed out	
Office: 1 staff	4	10.5		40.0		-2.0	-+ 070 yes	102	762	designed out	
Office: 2 staff		13.0	26.0								
Office: 4 staff	2	24.0	48.0								
Interview & counselling room: 5 persons	2	9.0	18.0	20.5		0.5	1.201 1100			declaned out	
Interview/meeting room: 6 persons	2	20.0	42.0	39.5		-0.5	-1.3% yes	yes	yes	designed out	
Education and training		60.6									
Seminar & training room: 30 persons	1	50.0	50.0								
Library & study room: 5 persons	1	20.0	20.0								

NSCH	- Adult	Hospital
NOGH	- Addit	nosoliai

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

Holding & storage				Contract Data Pa		JUI		modation			D 440
holding & storage			CONTRACTOR OF THE OWNER OF								Page 112
Store: equipment & supplies		50.0	an a	24.0		-26.0	-52.0% no	?	yes	changes req. for ov board requirements ma	pre area - there is minor float in the erall floor print, so with minor anipulation during 1:200 discussion s should be able to be resolved.
Store: sterile supplies	2	15.0	30.0 1 shared with Pharma	су							
Linen Store	2	4.0		5.0		-3.0	-37.5% no	yes	yes	deigned out	
Store: major incident equipment		12.0		11.3		-0.7	-5.8% yes	yes	yes	designed out	
Store: ready to use medical gas cylinders	1	9.0	9.0								
Store: ambulance equipment	1	6.0		5.8		-0.2	-3.3% yes	yes	yes	designed out	
Service room: equipment	1	21.0		20.2		-0.8	-3.8% yes	yes	yes	designed out	
Miscellaneous											
Hold: disposal	1	10.0	10.0	9.8		-0.2	-2.0% yes	yes	yes	designed out	
Cleaners (Housekeeping) room	2	7.0	Mation one provided by I	bidder 6.5		-7.5	-53.6% no	yes	yes	designed out the seminar and staff rest area are over so can be accommodated through minor replanning.	
Switchgear room	1	4.0	4.0								
Battery & UPS room	1	9.0	9_0								
Sub Total			561.0	544.6	-16.4						
Net Total		1	1805.0	1863.9	58.9	-64.3	-4%				
Planning allowance	5%		90.3								
Sub-total			1895.3								
Engineering Allowance	3%		56.9								
Circulation	27%		511.7		1						
TOTAL OF Emergency Department			2463.8	2539.2	<					Th	is is the BE total area

# Page 113

## ACUTE ASSESSMENT CLUSTER

Number of Beds Percentage Single Rooms			8.0 1.0										
Description	Qty	Unit Area m²	Total Area m²	Comments	BE	DIFFERS	Room short		Can area variance be	functional	Functionality to be determined	Will more area be required or can shortfall	BE comment
									explained by design	room in this area	at RDS/1:50 planning stage	bo designed	
Bed and Sanitary Facilities							sqm	% target	tolerance?				
Acute single bedroom (incl family & clinical support space)	28	16.5	- 32 2	24 Of 28 rooms below brief									check plans
Sub-Total			482.0		435.9	-26.1							
Patient Support Facilities			0.0										
Assisted shower/wc/whb	8	4.5	38.0	9 provided by bidder 4 under brief an	38.1		2,1	5.8%					
Interview/sitting room: 5 places	3												
Nurses Station	1				7.1		-0.9	-11.3%					
Resuscitation trolley parking bay: 1 trolley	1	2.0	2.0										
Pantry/Beverage making area	1	12.0	12.8		117		-0.3	-2.5%					
Ward Food trolley parking bay	1	1.5	1.5										
Wheelchair bay	1	4.0	4.0										
Touchdown spaces	4	2.0	3.0	only 3 provided by bidder	3.3	3	-4.7	-58.8%					
Sub-Total			80.5		84.9	4.4							
Backup storage			0.0										
Linen trolley parking bay	1	1.5			1.2		-0.3	-20.0%					
Clinical store/Controlled Drug Cupboard	1	1.5	5 1.5	i .									
Store - Equipment - Large	1	15.0	i intati		13.3	3	-1.7	-11.3%					
Sub-Total			18.0		17.8	-0.2							
Utilities			0.0										
Dirty utility/Sluice/Test Room - small	1	6.5			4.3	3	-2.2	-33.8%					
Clean Utility Room	1				11.7	7	-0.3	-2.5%					
Disposal hold/bay - large	1				6.7	7	-1.3	-16.3%					
Cleaners room	1		and the second sec		6.7	7	-0.3	-4.3%					
Staff wc & wash: Ambulant user	2	2.0	) 4.0										
Switchgear cupboard	1	1.0	in the state	not included by bidder	0.0	)	-1.0	-100.0%					add
Sub-Total			38.5		33.5	-5.0							
Office and administration services			0.0										
Reception / Clerk: 2 position open to corridor	1	8.0											
Office incl.meeting area: 1 place	ä	12.0	1 1 1 1 1 1 2 C		11.5	5	-0.5	-4.2%					
Charge Nurse Office					11.5		0.0	1 2 70					
Printer/IT/administration store					3 0	)	-3.0	-50.0%					
Waiting area: 5-10 persons			-	· · · · · · · · · · · · · · · · · · ·	5		0.0	00.070					
Staff locker bay	ł		-		1.4	1	-0_1	-6.7%					
Sub-Total			52.5		54.7	2.2							

letoT-duč		-	5 58	1.56	3.1 -2.4		
Office 3 Person	5	18.0	hies	35.6	5.6	7.5-	%76-
Office 1 person	5	15.0	54.0				
Open Plan Control Area (6 work stations)	t	57.5	57.5				
Reception / Clerk: 1 position open to corridor	1	0.8	0.8				
senA mooA loutno							

JATOT		0.1201					
Circulation	31%	543.1					
Engineering Allowance	%8	53.5					
lefot-du2		7.4.4					
Planning allowance	%9	7 12					
Jan IstoT		O'ZTZ	512	- <b>2</b> ۲.1	6.71-	%iZ	*

# Page 115

#### ACUTE ASSESSMENT CLUSTER

Number of Beds Percentage Single Rooms			8.0 .0									
Description	Qty	Unit Area m'	Total Area m²	Comments	BE	DIFFERS	Room short	Call are	be functional room d in this area n	Functionality to be determined at RDS/1:50 planning stage	can shortfall	BE comment
Bed and Sanitary Facilities												
Acute single bedroom (incl family & clinical support space)	28	16 5		24 Of 28 rooms below brief								check plans
Sub-Total					435.9	-26 1		yes	yes	redesign req. as Board comment	design out	
Patient Support Facilities			0.0									
Assisted shower/wc/whb	8	4 5		9 provided by bidder 4 under brief area	38 1		2 1	5.8% yes	? On most yes	yes	designed out	
nterview/sitting room 5 places	1				7.4		0.0					
Nurses Station	24				7,1		-0.9	-11 3% yes	yes	Yes	designed out	
Resuscitation trolley parking bay 1 trolley	1				44.7			2.58			destaux 4	
Pantry/Beverage making area Ward Food trolley parking bay	1				117		-03	-2.5% yes	Yes	yes	designed out	
Wheelchair bay	1											
Touchdown spaces	4	2.0		only 3 provided by bidder	3,3		-4.7	-58.8% no	willadd/shift roun	d yes	designed out	
Sub-Total			80.5		84. 9	4 4						
Backup storage			0.0									
Linen trolley parking bay	51				12		-0.3	-20.0% yes	yes	yes	designed out	
Clinical store/Controlled Drug Cupboard	1				13 3		-17	-11 3% yes	Yes	Yes	designed out	
Sole - Equipment - calge		15.0						ore jes	Yes	103		
Sub-Total					17.8	-0.2		Yes	yes	Yes	designed out	
Utilities			0.0									
Dirty utility/Sluice/Test Room - small	1	0.0			43		-2.2	-338 no	7	yes	designed out	
Clean Utility Room	1				117		-0.3	-2 5% yes -16 3% no	yes ?	Yes	designed out	
Disposal hold/bay + large Cleaners room	1				6.7		-0.3	-4 3% yes	Yes	yes yes	designed out designed out	
Slaff wc & wash: Ambulant user	2				0.1		0.0		163	101	actighter out	
Switchgear cupboard		1.0		not included by bidder	0.0		-1.0	-100 0% no	2	yes	designed out	add/ not labeled it's shown as riser, but there w be design development
Sub-Total					33. 5	-50						
			_									
Office and administration services			0.0									
Reception / Clerk: 2 position open to conidor	1	8.0	8.0									
Office incl meeting area: 1 place		12 0			11.5		-0.5	-4 2' yes	yes	Yes	designed out	
Charge Nurse Office	1	9.0							yes when			
Printer/IT/administration store	1	6.0			3.0		2.0	50.0%	considered with function of		designed out	
Waiting area 5-10 persons		16 0	16.0		3.0		-3 0	-50,0% no	reception	Yes	designed out	
Staff locker bay	1		-		1.4		-0 1	-6 7 % yes	yes	Yes	designed out	
Sub-Total			52.5		54.7	22						
Control Room Area		-										
Reception / Clerk: 1 position open to		8.0	8.0									
comdor		8.0	. 30									
Open Plan Control Area (6 work stations)	1	27,5		5								
Office 1 person	2			)	22.8		24	0.494			destaned aut	
Office 3 Person	2	18.0			32.6		-34	-9 4% yes	yes	¥62	designed out	
Sub-Tot <b>A</b> 51115531			-		93.1	-2 4						

Total net		747.0	719.9	-27.1	-17.9 The Yes	note some of the cleaners and disposal rooms fall adjacent to another cluster. There is space in this area to accommodate some most of the omissions particularly the majority which are resus trolley bays, linen cupboard and swithc cupbaords. Note most of the switch cupboards are picked up with an E, M or R consonant followed by a number to tie in with M&E design. These will be refined during design development.
Planning allowance	5%	37.4				
Sub-total		784.4				
Engineering Allowance	3%	23.5				
Circulation	31%	243.1			1	
TOTAL		1051.	5652.5		Y	This is the BE total area (see comment next to box)

#### ACUTE CLUSTER

Number of Beds Percentage Single Rooms		10	0											
Description	Qty	Unit	Total Area m³	Comments	BE	D	DIFFERS	Room shor			plan functional	Functionality to be determined at	Will more area be required or can shortfall	BE comment
									% tornat	explained by design tolerance?	room in this area	RDS/1:50 planning stage	bo designed	
Bed and Sanitary Facilities								sqm	/a larget	tolerancer				
Acute single bedroom (incl family & clinical support space)	30		and a state of the	18 of 30 rooms below brief area		1816								check plans through 1:200
En-suite assisted shower/wc/whb	30	4 5	1245			134 5		-0.5	-0.4%					
Sub-Total					6	528.3	-1.7							
Patient Support Facilities														
Diagnostic Testing Room (Exercise Testing/Echo)	23	16.5	16.5											
nterview/sitting room: 5 places Nurses Station	1	9.0 8.0			-	8.9		-0,1	-1,1%					
Resuscitation trolley parking bay 1 trolley	3	0.0												
Pantry/Beverage making area	1				-									
Ward Food trolley parking bay														
Wheelchair bay	4	4.0												
Touchdown spaces	4			5 provided by bidder all below brief		40		-4.0	-50 0%	no	?	yes	designed out	
Sub-Total			61.0			60.5	-0 5							
Backupstorage		_			1									
Linen trolley parking bay		1.5	1.5		-1									
Clinical store/Controlled Drug Cupboard		1.5												
Store - Equipment - Large	29		-	split into two stores		12 6		-24	-16 0%	yes	yes	yes	designed out	
Sub-Total			18.0			20.4	2.4							
Utilities			-											
Dirty utility/Sluice/Test Room - small	1	6.5	6.5											
Clean Utility Room						9.8		-22	-18 3%	no	?	yes	designed out	
Disposal Hold/bay - large					-							/		
Cleaners room	1				-1	10.4								
Staff wc & wash Ambulant user	2													
Switchgear cupboard	1													
Sub-Total		_	38.5			44.9	6.4							
Office and administration services	_	-	F											
Reception / Clerk: 1 position open to														
contidor	1	80	8.0											
Office incl meeting area 1 place	1	12.0	12.0											
Charge Nurse Office		90				89		-0.1	-1.1%	yes	yes	yes	designed out	
Waiting area: 5-10 persons						15 6		-0.4			yes	yes	designed out	
Staff locker bay	1	-		j		5.9								
Sub-Total			46.5			50.7	42							
Additional Area's			-		T									
WC & handwash accessible, wheelchair			and the state of the											
assisted	1	4,5	4			38		-0.7	-156%	00	?	yes	designed out	
assisted Body viewing/bier room	1	10	10	2		00		-01	.00%			,	caoigned out	
		10												
			14.5											

18/12/2009

Acute A51115531

## 891113**582**

This is the BE total area (see comment next to box)			9982'9	9.7611		TOTAL OF Acute Cluster Department
				563.2	31%	Circulation
				52.5	%8	Engineering Allowance
				6 848		lejoj-du2
				40 4	%9	9206wolle Brinnel9
note some of the cleaners and disposal rooms fall adjacent to another cluster. There is space in this area to accommodate some most of the omissions particularly the majority which are resus trolley bays, linen cupbaords. Note most of the cupbaords. Note most of the tothowed by a number to the in with M&E design. These will be followed by a number to the in refined during design development.	sak %t- FOL-	5.11	7.218	2.808		jen lstoT

#### GENERAL RECEIVING CLUSTER

Number of Beds Percentage Single Rooms		10	0%	
Description	Qty	Unit Area m²	Total Area m <sup>a</sup>	Comments
Bed and Sanitary Facilities				
Acute single bedroom (incl family & clinical support space)	48	16 5		39 of 48 below brief area - (1
En-suite assisted shower/wc/whb	48	4.5	216.0	(as per HBN 00.02)
Sub-Total				
Patient Support Facilities				
Consultation/Examination Room	3	16.5	101	
Interview/sitting room: 5 places	2	90	18.0	
Nurses Station	2	8.0	16.0	
Resuscitation trolley parking bay 1 trolley	2	2.0	100.00	
Pantry/Beverage making area	đ	12.0	1 125	
Ward Food trolley parking bay	2	1,5	- 31	only one provided by bidder
Wheelchair bay	.1	6.0	6.0	
Touchdown spaces	4	2.0	8.0	13 provided by bidder
Sub-Total			83.5	
Backup storage				
Linen trolley parking bay	3	1 5	and the	only two provided by bidder
Clinical store/Controlled Drug Cupboard	2	1.5	41	not provided by bidder
Store - Equipment - Large	2	15.0	No.	
Sub-Total				
Utilities				
Dirty utility/Stuice/Test Room - small	2	6.5		only one provided by bidder
Clean Utility Room	2	12.0	le sú	
Disposal Hold/bay - łarge	2	8.0		only one provided by bidder
				only one provided by bidder
Cleaners room	2	7.0		only one provided by bidder
Staff wc & wash Ambulant user	2	2.0		only one provided by bidder
Switchgear cupboard	1	1.0	1.0	
Sub-Total	-			

	DIFFERS	Room shor sqm	tfall	Can area variance be explained by design tolerance?	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage	area De	BE comment
758 5				yes	yes	yes	designed out	check plans
991.2	-16.8							
15.4		-1.1	-6 7%	yes	yes	yes	designed out designed	
16 6		-1.4	-7 8%	yes	yes	yes	out	
32		-0.8	-20 0%	no	yes	yes	designed out designed	
10.7		-1.3	-10.8%	yes	yes	yes	out	
1.9		-1.1	-38.7%	no	?	yes	out	add one in there's space in department re-plan
87.4	3.9							balance against short fall in other parts of AAU.
01.4	0.0							
		-4 5	-100 0%	no	?	yes	designed out designed	add
0.0		-3 0	-100,0%	no	?	yes	out designed	add
26.8		-32	-10 7%	yes	yes	yes	out	
35.0	-2 5			yes				
							designed out in	
65		-6.5	-50 0%	по	?	yes	replan designed out in	add add (but double check in new layout as this will
12 0		-12 0	-50 0%	по	?	yes	replan designed	be on a junction with other AAU clusters)
7_4		-8.6	-53.8%	?	?	yes	out in replan designed out In	add again check cover In other AAU cluster as may be shared. Will be picked up In replan. add again check cover In other AAU cluster as
79		-6 1	-43,6%	?	?	yes	replan designed out in	ado again check cover in other AAU cluster as may be shared. Will be picked up in replan.
30		-1.0	-25 0%	no	yes	yes	replan	add
39.2	-32.8							

General A 511 115531

#### NSGH - Adult Hospital

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

## Page 120

Offico and administration services											
Reception / Clerk: 1 position open to comdor	1	8.0		68		-12	- 15 0% yes	yes	yes	dosigned out	
Office inclimenting area: 1 place	1	12.0	12.0	16.3							
Charge Nurse Office	7	9.0		7.9		-1-1	-12 2% yes	ves	yes	designed	
Naiting area: 15 persons inc. 2 wheelchair isers	- 1	25.5	25.5	30.4				,			
Staff locker bay	2	1.5		2.8		.02	-6.7% yes	yes	yos	designed out	
Sub-Total			57.5	66.7	92						
Total net			ion #	1219.5	-39.0	-53 3	-4% yes				note some of the cloaners and disposal rooms for adjacent to another cluster. There is space in thi area to accommodato some most of the omissions particularly the majority which are resus trolley bays, linen cupboard and swithc cupbaords. Note most of tho switch cupboards are pickod up with an E, M or R consonant followed by a number to tie in with M&E design. These will be refined during design development
Planning allowance	5%		62.9								
Sub-totat			1321.4								
Engineenng Allowance	3%		39.6								
Circulation	31%		409.6								
TOTAL OF General Cluster Department			1770.77	5652.5		_		-	_		This is the BE total area (see comment next to box)

#### **Complex Needs Cluster**

Number of Beds Percentage Single Rooms			12 00%										
Description	Qty	Unit Area m <sup>1</sup>	Total Area m <sup>2</sup>	Comments	BE	DIFFERS	Room short	fall		plan functional	determined at	Will more area be required or can shortfall be	BE comment
							5000	% tamat	explained by design tolerance?	room in this area	RDS/1:50 planning stage	designed out?	
Bed and Sanitary Facilities							34111	70 tanger	totorancer				
Acute single bedroom (incl family & clinical support space)	12	16.	5	10 of 12 rooms below brief area	192 2		-5.8	-2 9%	yes	yes	yes	designed out	
En-suite assisted shower/wc/whb	12	4.5	5 54.0	(as per HBN 00-02)									
Sub-Total			252.0		258.2	6.2							
Patient Support Facilities			1										
Consultation/Examination Room	1	16.5			15.8		-0.7	-4 2%	yes	yes	yes	designed out	
Interview/sitting room: 5 places	1				7 9			-12 2%		yes	yes	designed out	
Nurses Station	1	8.0			7.8		-0.2	-2 5%	yes	yes	yes	designed out	
Resuscitation trolley parking bay 1 trolley	- 14	2.0	2.0	)									
Pantry/Beverage making area		12 (	12 (	)									
Ward Food trolley parking bay		1.5	5	not provided by bidder	0.0		-1.5	-100 0%	no	2	yes	designed out	add small park space for trolley easily added
Wheelchairbay	-1	4 (	0 4.0	)									
Sub-Total					50.2	-2 8			yes				
Backup storage													
Linen trolley parking bay		1.5	5 1.5	5									
Clinical store/Controlled Drug Cupboard	1.1	1.	5 1.5	5	5 0	)							
Store - Equipment - Large		15.0	0 15.0	split into two stores by bidder									
Sub-Total			18.0		22.8	4.8							
Utilities			1										
Dirty utility/Sluice/Test Room - small	21	6	5 6.5	5									
Clean Utility Room		12 (	D		10.3		-1.7	-14 2%	yes	yes	yes	designed out	
Disposal Hold/bay • large		8.0	0.8	0									
Cleaners room	1												
Staff wc & wash Ambulant user	2												
Switchgear cupboard	1	1.0	0 1.0	0									
Sub-Total			38.5		40.3	18							
Office and administration services			1										
Reception / Clerk: 1 position open to comdor	1	8.	0.8	0									
Office incl meeting area 1 place	1	12.0	0		117		-0.3	-2 5%	yes	yes	yes	designed out	
Charge Nurse Office	1	9											
Printer/IT/administration store	1	6	D		47		-1,3	-21 7%	yes	yes	yes	designed out	
Waiting area: 5-10 persons		16 (	0 16.0	0									
Staff locker bay	1	1.	5 1.5	5									
Sub-Total			52.5		52.5	0.0							

#### Contract Data Part 2 Volume 1 - Schedules of Accommodation

											Page 12
Rehabilitative Therapy Area	11										1 490 127
ADL bedroom with living assessment	11	18.0	18.0	17.6		-0.4	-2 2% yes	yes	yes	designed out	
ADL wc/bathroom/shower	1	13.0	13.0	12.5		-0.5	-3.8% yes	yes	yes	designed out	
ADL Kitchen	я	27.0	27-0 not provided by bidd	ter 0.0		-27 0	-100 0% по	yes can swop for extra room	n	no issue on plan	requirement not on original schedule. However, extra space is provided is in the light activity area which appears not to be needed anymore look at the plan
Treatment Area	9	13.0	not provided by bidd	ler 00		-130	-100 0% no	yes can swop for extra room	n	no issue on plan	requirement not on onginal schedule. However, extra space is provided is in the light activity area which appears not to be needed anymore look at the plan.
Equipment Store	1	20.0	20.0								
additional light activities area				40.0							
Sub-Total			91.0	90.1	-09						
Total net			505.0	514.1	9.1	-53 5	-11%				general comment. New rooms have been added from the onginal breff supplied, E.g. the ADL kitchen and treatment room. However, the light activity area makes up the area therefore there isn't a problem. This can be picked up in the replan during 1:200 development.
Planning allowance	5%		25.3								
Sub-total			530 3								
Engineering Allowance	3%		15.9								
Circulation	31%		164.4								
Total			710.5	5652.5	<u> </u>						This is the BE total area (see comment next to box)

# Page 123

	Qty	Unit Area m²	Total Area m'	Comments	BE	DIFF	ERS	Room short	fall	Can area variance be	Can NA plan functional room in this	Functionality to be determined at RDS/1:50	Will more area be required or can shortfall	BE comment
								sam		by design tolerance?	area	planning stage	be designed out?	
OPD CLUSTER								SUM	a taryet	tolerancer				
Based on Generic OPD Cluster														
mergency Centre OPD Cluster														
Vaiting Area	1.0	12.0	12.0			35.6								
VC - Disabled Size	1.0	4.5	4.5											
lurse Base & Physical Measurement Bay	1.0	8.0		Adjacent to waiting area		6.2		-1.8	-22.5%	по	yes	yes	designed out	
onsult / Exam Room	3.0	16.5	49.5										-	
tean Utility or Store	1.0	12.0				11.4		-0.6	-5.0%	yes	yes	yes	designed out	
Dirty Utility	1.0	6.0				52		-0.8	-13.3%	по				
tore Room	1.0	4.0	4.0											
pecimen / Disabled WC	1.0	4.5	4.5	With hatch to dirty utility										add room store is larger than
inen Cupboard	1.0	1.0		not provided by bidder		0		-1.0	-100.0%	no	?	yes		required therfore no issue.
Staff WC	1.0	2.0	2.0											
ub Total			103.5			125.7	222							
otal net			103.5			125.7	22.2	-4.2	-4%					
Planning allowance	5%		5.2											
ub-total			108.7											
ngineenng Allowance	3%		3.3											
Sirculation	31%		33.7											
otal			145.6			5652.5			-					This is the BE total area (see commer next to box)

#### SHARED EMERGENCY CLUSTER SUPPORT CORE

	Qty	Unit Area m²	Total Area m*	Comments	BE	DIFFERS	Room sho	rtfall	Can area variance be explained by design	room in	Functionality to be determined at RDS/1:50 planning stage	Will more area be required or can shortfall be designed out?	BE comment
Shared Cluster Support Facilities			_				sqm	% target	tolerance?	Carlos and a	stage		
Reten Kachen		30 0			29 3		-05	1776	1003	yes	yes	destaned out	
Allowance for Wesh Up	1	12.0			111		-0.1	-0.6%		Ves	Ves	designed out	
F& Troley Bays	1	6.0		not provided by bidder	01		-6.0	-100 0%	no	7	yes	designed out	add
Onderstal Hold & Recycling Point	1	24.0			214	3	-22	-9 2%	yes	yes	Y03	designed out	
Serrenal / Education Room		40.0			35 :	2	-4.8	12.0%	Yes	yes	yes	designed out	
Heat-patient testing'status laboratory		8.5			8.	2	-0.3	35%	yes	yes	yes	designed out	
Bulk Puedo & Claps Dressings Esc	ί¥.	45 0		not provided by biddler	0	0	-46.0	-100 0%	no	80	yes	not picked up on original schedule, there is spare space in whole department so it should not impact on plan. It may have to be divided into 3 x smaller stores. To be defined in 1:200 replan.	add dwiing 1:200 replan. This is a large area. buf within the floor plate there is scope to accommodate - so should not impact on overall area.
Blood Fridge	- 1	60	6.0										
Workstations x 6	1.4	240			23	2	-0.6	-3.3%	¥93	yes	yes	designed out	
Therapy / AHP / Multi Purpose Assess / Treat	1040	38 0			31		-69	-162%		yes	VPs	designed out	\$ 200 replan for whole area proposed.
Medicines Mangament	1.9.1	12 •			7		42	-35.0%		7	yes	designed out	
Automoted Depending Ates	2002	15.D		not provided by bidder	0	3	-15.0	-100 0%	00	÷.	yes	not on original schedule	add in 1:200 replan, there should be space
Staff WCAweeh	2	3.0	60										
Staff locker room = F	100	24 0		100 half herght lockers	\$7		-62	25 8%	00	yes	Yes	designed out	
Staff tocker (pern - M	111	80	80	20 Net height lockers				22214		,			
Staft shower	2	4 0			7	5	-02	25%	yes	yes	yes	designed out	
Accessible shower I WC	1	4.5		Includes lockers									
Cleaners Room		7 0		not provided by bidder	0	B	7.0	100 0%	no	2	yes	designed out	add
Printer//T/administration store	1.	10 0	10 0										
Sub Total		3	100		230.	0 -510	-04.2	-2%					In the support area there are two new rooms one for 15m <sup>4</sup> and one for 40m <sup>4</sup> . With replan these should be able to be accommodated as the floor area for the overall department Id circa 380m <sup>4</sup> over schedule.
Total Net		-	323 0										
Planning planance	5%		16.2										
Sub-total		1	339 2										
Engrand Alburate	3%		10.2										
Circulation	31%	-	105 1										This is the BE total arms (see cononant next to
			454.6		5652	A	_						boal

## MEDICAL RECORDS

Deers Trees	Quantity	Cine	Tetel	C		6
Room Type	Quantity	Size	Total	Comments	BE DIFFER	S
		M2	M2			
Clinical Coding				The second second second		
Open Plan Office for 20 persons	1.0	45.0	45.0			
Printer Stations	5.0	3.0	15.0			
Sub Total			60.0		61.9	1.9
Total			60.0			
Planning allowance	5%		3.0			
Sub-total			63.0			
Engineering Allowance	3%		1.9			
Circulation	30%		18.9			
Total		102 - C. 1	83.8			

Medical Records Offices						
Audit Room	1.0	18.0	18.0	4 workstation positions		
Legal Room/Viewing room	1.0	11.0	11.0	2 workstation positions		
Copying Room	1.0	6.0	6.0			
General Receipt/Sorting & Scanning	1.0	45.0	45.0	Open fronted office, with counter.		
WC/WHB - Type 1	3.0	2.0		not provided by bidder	0.0	
WC: Disabled/ wheelchair	1.0	4.5	1.65	not provided by bidder	0.0	
Main Records staff area	40.0	4.5	160.0		178.0	
Office - 1 position + filing	1.0	13.0	13.0			
Admin Store	1.0	6.0	6.0		4.9	
Office - 1 position + meeting area	1.0	14.0	14.0			
Deputy Manager(s)	1.0	11.0	- Alth		10.2	
Sub Total			314.5		306.9	-7.6
Total Net	T I		314.5			
Planning allowance	5%		15.7			
Sub-total			330.2			
Engineering Allowance	3%		9.9			
Circulation	30%		99.1			
Total		en si k	439.2			
TOTAL FOR DEPARTMENT	-	-	523.0			

# **BED MAINTAINENCE**

		128.0			Sub Total
		16.0	16.0		Bed, trolley, chair decontamination
		24.0	24.0		Bed, trolley, chair maintenance
	36.0 25 trolleys	36.0	36.0		Ready to use transit trolley store
	19 0 25 chairs	19.0	19.0	_	Ready to use transit chair store
	33_0 10 beds	33.0	33.0	-	Ready to use bed store
					Bed Maintenance
BROOKFIELD DIFFERS	Comments	Totai Area m²	Unit Total Area m <sup>2</sup> Area m <sup>2</sup>	No:	Activity Space

Total Net Planning allowance Sub-total Engineering Allowance Circulation TOTAL

> 3% 20%

**128.0** 6.4 134.4 4.0 26.9 **165.3** 

5%

Activity Space	No:	Unit Area m <sup>a</sup>	Total Area m³	Comments	BE	Differs	Room Area shortfall	explained	room in	Functionallty to be determined at RDS/1:50	Will more area be required/can shortfall be designed	BE comment
							sqm % target	by design tolerance?	this area	planning stage	out?	
Entrance												
Entrance draught lobby	4	20.0	20.0	)	77.10							
Entrance concourse	1	40 0	40.0	)	2382.20							
Patient trolley/wheelchair parking bay 2 trolleys & 8 wheelchairs (& Shop Mobility Allowance)	9	10.5	10 5	5	15.00							
Refreshment vending machine bay	2	3.0	6.0									
Telephones w/chair height	2											
Telephones	4											
Telephones		1.0			-							
Shopping & pushchair bay	ं	10 0	- net	not provided on Brookfield SoA	0.00		-10.0 -100.0%		Yes	Yes	No/Yes	Note that there is more than sufficient space within the Entrance Concourse to accommodate this
additional children's play area					15 2.70							
Net Total			93.5	5	2640.00	2546 50						
Reception												
Main Reception & Information	1	20.0	20.0		71.90							
Waiting area: 30 places, incl. 5 wheelchair places		45.0	a 1		32 70		-12:3 -27:3%		Yes	Yes	No/Yes	Note that there is more than sufficient space within the Entrance Concourse to accommodate this
					104,60	39.60						
Net Total			65.0	J	104.60	39.60						
Sanitary facilities												
WC: visitor ambulant user	8	2.5	20 0									
WC visitors disabled/ wheelchair user	2											
Baby/infant feeding room	-	5.5										
Nappy change room		4.0										
				weightbearing facility reference www.changing-								
Adult changing/WC (disabled)	1	12.0	12.0	) places org	14.80							
Cleaners Room - Large Equipment Store	1	160	161	1	10 70		-53 -331%		Yes	Yes	No/Yes	We can add an additional Cleaners Room in Core B and replace the Disabled WC (additional to Brief)
Switchgear cupboard		2.0	2.0	0								
Net Total			68.5	5	101.40	32.90	)					
Admissions												
Reception/ admissions office	2.4	10.0										
Interview rooms	4	90	36.0	0								
Net Total			54.0	)	59.30	5 30	)					

18/12/2009

A51115531

Activity Space	No:	Unit Area m³	Total Area m <sup>3</sup>	Comments	BE	Differs	Room Area shortfall	Can area	Can NA plan	Functionality to be	Willmore area be required/can	BE comment
					DE	Dinera		variance be explained by design tolerance?	room in	determined at RDS/1:50 planning stage	shortfall be designed out?	
Discharge Lounge												
Patients & visitors discharge lounge	1	74.0	74.01	ncludes staff base	80.7	)						
Nurse Base	1	60	6.0									
Ambulance staff duty room 5 place	1	10.0										
Ambulance Office (Board Staff)	1	18.0	is num		15.2	D	-2.8 -15.6%		Yes	Yes	No/Yes	This Area is 11m2 above the SOA/Brief, therefore believe there is sufficient space to adjust the area shortfall
Resus Bay	1	2.0	2.0									
Hoist Bay	1	4.5	4		4.2	0	-0.3 -6.7%		Yes	Yes	No/Yes	This Area is 11m2 above the SOA/Brief, therefore believe there is sufficient space to adjust the area shortfall
Consulting / Examination Room single	1	13 5										
Beverage bay	1	6.0										
Food trolley bay	1	1,5										
Dirty Utility	1	90										
Equipment store	1	6.0	6.0									
Clean store	3	4.0	# P		3.4	D	-0.6 -15.0%		Yes	Yes	No/Yes	This Area is 11m2 above the SOA/Brief, therefore believe there is sufficient space to adjust the area shortfall
Staff WC	1	25	2.5									
WC: Ambulant - patient	2	2.5	5.0									
WC; Independent wheelchair	1	4.5	4.6		3.5	0	-1.0 -22.2%		Yes	Yes	Norres	This Area is 11m2 above the SOA/Brief, therefore believe there is sufficient space to adjust the area shortfall
Net Total			166.5		177.5	D 11,0	0					
Security & Porters												
Security (local) & Porters room	1	26.0	26.0		_							
Net Total			26.0		27.2	0 12	0					

Activity Space	No:	Unit Area m <sup>3</sup>	Total Area m²	Comments	BE	Differs	Room Area shortfall	Can area variance be	Can NA plan functional	Functionality to be determined at	Will more area be required/can	BE comment
							som % target	explained by design	room in	RDS/1:50 planning stage	shortfall be designed out?	
FM Offices							SUM 78 target	tolerancer				
Domestic & Portering Manager	1	20.0	20.0									
Assistant Domestic & Portering Managers	1	20.0	20.0									
Quality/Training Managers	1	20 0	20 0									
Supervisors (hol desk)	1	30.0	30 0									
Net Total			90.0		91.50	1.50						
Patient Information & Support	1		_									
Cashiers office	1	18.0	18.0	With security hatch & safe	18.20							
Internet & NHS Information Stations	3			only one at 10 provided by	10.00							
Patients advocates room	1											
Interview room. 5 places	1	9.0										
Voluntary Services - allowance	1	15.0			16.00							
additional secure lobby												
Net Total			64.0		76.60	1260						
Spiritual Care Facility			-									
Reception	1	5.0	5.0		15.20							
Beverage bay	3				5.40							
Large Sanctuary Area	1	35.0	35.0		88.90							
Adjacent Ablution Facilities	1	5.0			6.00							
Vestrv / Office - 3 oerson	1	10.0			19.50							
Single Ofice with Meeting Space	1	12 0	12.0		13.60							
			76.0		148.50	72 50						
Bereavement Service			1									
			No.									
Bereavement Service	4	10 0	10.0	net included by bidder			10.0 100.0%		Yes	Vec	No/Yes	Note that this was NOT included in the original SOA Brief. However, there is more than sufficient space within the Entrance Concourse/Spiritual Care Facilit (which is 72.5m2 over area) to accommodate this Board additional space.
	-			not included by bidder			-10.0 -100 0%		res	Yes	NOTES	board auditonal space.
Net Total			10.0		0.00	-10 00						
Total Net	1		713.5		3426.6	2713 10	-42.3 -6%					
Planning allowance	5%		35 7									
Sub-total			749.2									
Engineering Allowance	3%		22 5									
Circulation	25%		187.3									
Total	1.00	100 C	958.9									

18/12/2009

A51115531

Activity Space	No:	Unit Area mª	Total Area m²	Comments	BE	Differs	Room Area shortfall sam % target	Can area variance be explained by design tolerance?	room in this area	Functionality to be determined at RDS/1:50 planning stage	Will more area be required/can shortfall be designed out?	BE comment
Bidder Items - Retail & Café				Gross area allowances								
Additional Retail Space			250.0									
Snack Bar (incl seating area)			90.0									
Net Total			340.0		423.10	83.1	0					
Additional Atria Allowance			120.0									
Department Total	6 - C 1		1418.9		3923.7							This is the BE Total Area



Sent: Thu 17/12/2009 10:47

#### **Ross Ballingall**

From:	Emma White
To:	Ross Ballingall
Cc:	Graham Harris; Neil Murphy; Jonathan Hendrick; Paul Britton
Subject:	SOA Analysis - FM Areas
Attachments:	

Ross,

This commentary should close out the FM areas, and where they have been unable to locate FM departments.

#### Telephone Services:

This is located on Level 02 adjacent to NSGH Theatres opposite Core B (refer to drawing NA-XX-02-PL-252-010). I think the area may have been affected by the revised Theatre design, but I'm sure this can be accommodated within the current building envelope/area.

#### Hotel Services & Portering:

This is located in the Basement (refer to drawing NA-XX-B1-PL-252-010), the area is 760,3m2, and includes the 100m2 allowance for the Children's Hospital.

I've also noticed that we have additional FM & Distribution Stores @665.3m2 in the Basement which we believe were put in as part of the variant Lab/FM Building scheme. These will no longer be required if we are to provide the compliant Scheme. This space could be used if they do not accept our smaller End Kitchen (Staff Change and Equipment Library could move down as per the Exemplar Scheme), or it could simply be removed from the scheme.

## FM & Staff Facilities

FM & Staff Facilities			Requires further FM input	
Main Dining Room & Servery		1,196	Shared with Children's Hospital	
End Kitchen		982		
Staff changing - manual		187	Allowance	
Staff Accommodation		128	8 rooms @ 16m2 gross	ir ir a
Telephone services	4000 extensions	150	Allowance	to Ic
Hotel Services & Domestic / Portering etc		660	Allowance	to Ic
Bed Management	1	165		2
Specialist Bed Store		50	Ailowance	)
Equipment Library/Store (non Bio-engineering)		250	Allowance	
		3,768	NB External compound for waste, clinical waste, dirty laundry etc	

Regards,

Emma

Emma White | Director

NIGHTINGALE ASSOCIATES

87-91Newman St | London | W1T3EY

ورو ک روی ک ر

www.nightingaleassociates.com

Nightingale Architects Ltd. Registered office: 87-91 Newman Street, London W1T 3EY. Company registered in England and Wales No.4440612

Message protected by MailControl: e-mail anti-virus, anti-spam and content filtering. http://www.mailcontrol.com

Activity Space	No:	Unit Area m <sup>3</sup>	Total Area m²	Comments	BE
Catering					
Restaurant and coffee lounge					
Entrance lobby	1	20 0	20.0		
Food store	1	7.5		not provided by bidder	0.0
Dining servery	1	130.0			
Restaurant	1	375.0			
Additional Overflow for Dining	1	220.0			-
Coffee lounge servery	1	30.0			
Coffee lounge	1	1500			149
Supervisions office: 1 place	1	7.0	7.0		
Restaurant & coffee lounge furniture store	1	12.0		not provided by bidder	0
Linen & disposable goods store	1	4.5	4.5		
Cleaners room	1	7.0		not provided by bidder	0
Switchgear cupboard	1	2.0	2.0		
Sub Total			965.0		1106.
Total Net			965.0		
Planning allowance	5%		48 3		
Sub-total			1013 3		
Engineenng Allowance	3%		30.4		
Circulation	15%		152.0		
Total			1195.6		1131.

DIF	FERS		n Area rtfall % <i>target</i>	Can area variance be explained by design tolerance?	Can NA plan functional room in this area	Functionality to be determined at RDS/1:50 planning stage	Will more a'ea be required/can shortfall be designed out?	BE comment
					Vec	Yes	No/Yes	Noto that our design has been provided by CDS, our Catering Specialist Subcontractor. The rooms have been adjusted following their advice and can be discussed in detail with the Board during the Design Development form
0.0		-7 5	+100.0%		Yes	Yes	No/Yes	Devolopment Stage. There is sufficient space in Core D to provide this room if required
19 3		-0 7	-0.5%		Yes	Yes	No/Yes	There is sufficient space in Core D to provide this
00		-12 0	-100 0%		Yes	Yes	No/Yes	room if required
0.0		-7,0	- 100 0%		Yes	Yes	No/Yes	We can provide additional Cleaners Rooms in Level 1 Cores A and B
06.1	141.1							

1131.4	This is the BE Total Area

Activity Space	No:	Unit Area mª	Total Area m²	Comments	BE	DIFFERS	sho	n Area rtfalł % target	Can area variance be explained by design toleranco?	room In	Functionality to be determined at RDS/1:50 planning stage	Will more area be required/can shortfall be designed out?	BE comment
Kitchen										Yes	Yes	NofVes	Note that our design has been provided by CDS, ou Catering Specialist Subcontractor. The rooms have been adjusted following their advice and can be discussed in detall with the Board during the Design Devetopment Stage.
Delivery Area				159.0	106.	0 -53.0							
Delivery bay	-	500		100.0	39		.110	-22.0%					
Storekeepers office: 1 place	1				00	0		22.010					
Returns emplies store		45 0		not provided by bidder	0	0	46.0	-100.0%					
CFPU returned containers trolley parking				not provided by bidder	0.	0	-400	- 100.076					
	1	55.0	55 0	)									
bay (outward)			-		200	7							
Food stores			_	315.0	360.		10.5						
Provisions store		00.0			47	0	-13 0	-21 7%					
Bread store	1	100											
Diet food store		1 10.0											
Diary products cold store		1 18.0			17	5	-0.5	-2.8%					
Bulk chilled food store	4	2 100.0											
General cold store		1 12.0	12 0										
Food preparation rooms				6.5	4.	.8 -1.7							
Hygiene control bay		6.5			4	8	-1.7	-26 2%					
Meal despatch			· · · · · ·	100.0	46.	.8 -53.2							
Ward bulk distribution - temp controlled		40 0		not provided by bidder	0	0	-40.0	-100.0%					
Staff food service room		60.0			48			-22 0%					
Returned ward food trolley parking bay			_	87.0	16.								
Central wash-up & pot wash bay		80.0		not provided by bidder - Restaurant only	0	0	-80 0	-100 0%					
Trolley wash bay		1 7.0	7 (	)									
Offices & Staff accommodation				81.0	74.	.0 -7.0							
Male staff shower	4	4 2.5		4 of 4 below brief area	9	2	-0.8	-8.0%					
Male staff wc & wash: Ambulant user													
Female staff shower				4 of 4 below brief area	9	2	-0.8	-8 0%					
Female staff wc & wash Ambulant user						-		0.0.0					
Staff rest room 40 ptaces		1 45.0			38	0	-7.0	-15.8%					
Support spaces				39.0	71.								
Detergents store		1 7.0	7.0										
Cleaners room		2 70											
Clean linen & uniform store		1 70											
Dirty linen & uniform store		1 7.0											
Switchgear room		1 4.0											
Gas meter room		1 50											
Sub Total	-	1	195		680.	.5 -112.0	-2 40.2	-30%		_			
Total Net			792.5	5									
Planning allowance	5%		39.6	3									
Sub-total			832 1										
Engineering Allowance	3%		25 0										
Circulation	15%		124 8			4							
Total	.57	1	961.9		770.		_		the second day is not	-			This is the BE Total Area

Activity Space	No:	Unit Area m <sup>2</sup>	Total Area m <sup>a</sup>	Comments	BE	DIFFERS
Catering						
Restaurant and coffee lounge						
Entrance lobby	1	20.0	20.0			
Food store	1	7.5		not provided by bidder	0.0	
Dining servery	1	130.0	130.0			
Restaurant	1	375.0	375 0			
Additional Overflow for Dining	1	220.0	220 0			
Coffee lounge servery	1	30.0	30.0		1	
Coffee lounge	1	150.0			149 3	
Supervisiors office: 1 place	14	7.0	7.0			
Restaurant & coffee lounge furniture store	1	12.0		not provided by bidder	0.0	
Linen & disposable goods store	1	4.5	4 5			
Cleaners room	Ì	7.0		not provided by bidder	0.0	
Switchgear cupboard	1	2 0	2.0			
Sub Total			965.0		1106.1	141
Total Net			965.0			
Planning allowance	5%		48.3			
Sub-total			1013 3			
Engineering Allowance	3%	_	30,4			
Circulation	15%	_	152.0	1		1
Total			1195.6		1131.4	C.

DIFFER	SHOT	tfall	Can area variance be explained by design tolerance?	Can NA płan functionat room in this area	Functional/ty to be determined at RDS/1:50 planning stage	Will more aroa be required/can shortfall be designed out?	BE comment
				Yes	Yes	No/Yes	Note that our design has been provided by CDS, our Catering Specialist Subcontractor. The rooms have been adjusted following their advice and can be discussed in detail with the Board during the Design Development Stage.
0	-7.5	- 100 0%		Yes	Yes	No/Yes	There is sufficient space in Core D to provide this room if required
3	-0.7	-0.5%		Yos	Yes	No/Yes	
0	-12.0	-100 0%		Yes	Yes	Norres	There is sufficient space in Core D to provide this room if required
0	-7.0	-100.0%		Yes	Yes	NorYes	We can provide additional Cleaners Rooms in Level 1 Cores A and B
1 14	1.1						

1131.4 This is the BE Total Area

		Unit	<b>Total Area</b>								-		Will more	
Activity Space	No:	Area m²	m	Comments	BE	DIFFL	ERS	Room shor sqm	tfall	Can area variance be explained by design tolerance?	plan functional room in	Functionality to be determined at RDS/1:50 planning stage	area be required/can shortfall be designed	BE comment
Kitchen											Yos	Yes	No/Yes	Note that our design has been provided by CDS, ou Catering Specialist Subcontractor. The rooms have been adjusted following their advice and can be discussed in detail with the Board during the Desig Development Stage.
Delivery Area				159.0	10	06.0	-53.0				105	.03		o o o o o o o o o o o o o o o o o o o
Delivery bay		50.0		1550		39 0	-33.0	.11.0	-22 0%					
Storekeepers office: 1 place		90	9.0			390		-110	-22 0 /0					
Returns empties store	_	45.0		not provided by bidder		00		45.0	-100 0%					
		45.0		not provided by bidder		00		-450	-100 076					
CFPU returned containers trolley parking		55.0	55.0	(										
bay (outward)		_					45.00							
Food stores				315.0		60.7	45.7							
Provisions store		60 0				47 0		-13 0	-21 7%					
Bread store		15.0	15.0											
Diet food store		1 10 0	10.0											
Diary products cold store		1 18.0				17_5		.0.5	-2.8%					
Bulk chilled food store		1000	200.0											
General cold store		1 12 0	12.0											
Food preparation rooms				6.5		4.8	-1.7							
Hygiene control bay		1 6.5				48		-1.7	-26 2%					
Meal despatch		1		10 0.0	4	46.8	-53 2							
Ward bulk distribution - temp controlled		40.0		not provided by bidder		0.0		-40.0	-100.0%					
Staff food service room		60.0				46 8		-13 2	-22.0%					
Returned ward food trolley parking bay				87.0		16.8	-70 2							
Central wash-up & pot wash bay		80.0		not provided by bidder - Restaurant only		0.0		-80.0	-100.0%					
Trokey wash bay		1 7.0	70											
Offices & Staff accommodation		1.0		81.0		74.0	-7.0							
Male staff shower		2 5		4 of 4 below brief area		92		-0 8	-8 0%					
Male staff wc & wash Ambulant user		\$ 20				5 4		-0 0	-0 0 %					
Female staff shower		25		4 of 4 below brief area		92		-0.8	-8 0%					
Female stan shower		• 2.5		4 OI 4 DEIOW DITEL ALEA		32		-0 0	-0 0 76					
Female staff wc & wash: Ambulant user		4 2.0												
Staff rest room: 40 places		1 45 0				38 0		-70	-15 6%					
Support spaces			-	39 0		71.4	32.4							
Detergents store		1 70												
Cleaners room		2 7.0												
Clean linen & uniform store		1 7.0												
Dirty linen & uniform store		1 7.0												
Switchgear room		1 4.0												
Gas meter room		1 5.0	5 0	0										
Sub Total			392.5		6	80.5	-112.0	-240.2	+30%					
Total Net			792.5	i i										
Planning allowance	59		396	3										
Sub-total			832 1											
Engineering Allowance	39		25.0											
Circulation	15%		124 8											



Bundle of documents for Oral hearings commencing from 19 August 2024 in relation to the Queen Elizabeth University Hospital and the Royal Hospital for Children, Glasgow

**Bundle 27 – Miscellaneous Documents** 

Volume 18