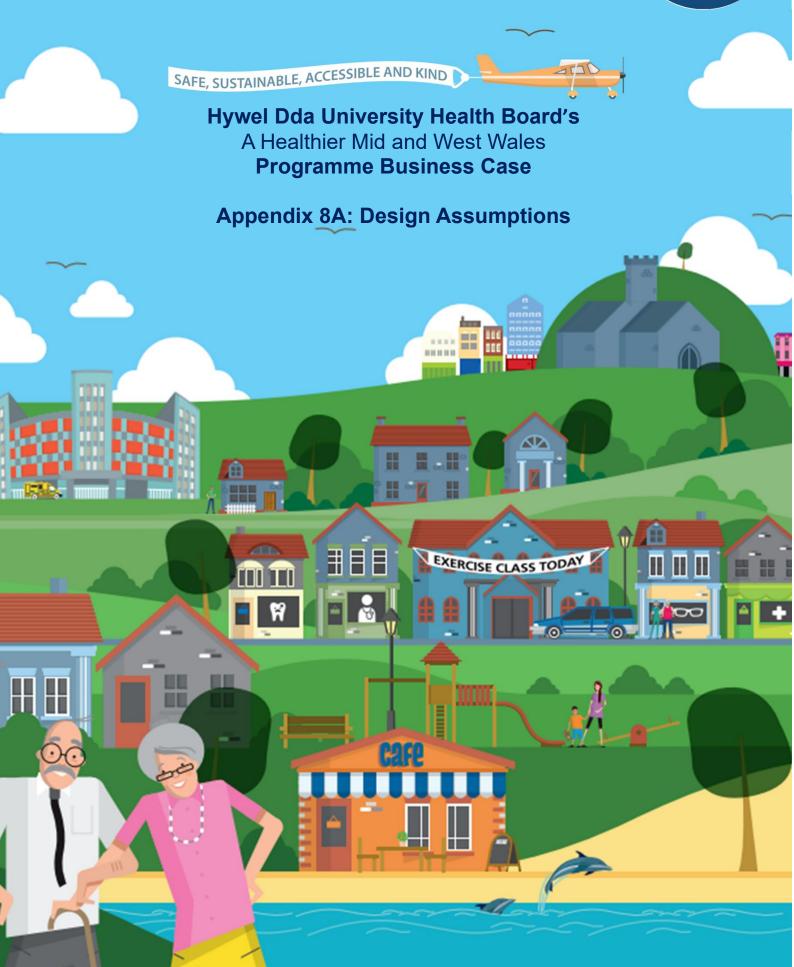


Date: January 2022 DRAFT

Canolbarth a Gorllewin Iachach

Cenedlaethau'r dyfodol yn byw bywydau iach





# **Document History**

# **Document Location**

This document is stored electronically in: S:\HDUHB\PPIC\Health Analytics\Projects\01\_Active\HA\_2021\_001 - Programme Business Case\02\_Project\_Docs\Design Assumptions - v0.1.docx

S:\HDUHB\Planning\AHMWW PBC New Hospital\Activity Modelling Workstream\Design Assumptions - v0.2.docx S:\HDUHB\Planning\AHMWW PBC New Hospital\Activity Modelling Workstream\Design Assumptions - v0.4.docx

### Version Control

Version	Current Revision Date	Summary of Changes	Author
0.1	28/04/2021	First Issue	Gareth Jenkins
0.2	12/07/2021	To match assumptions to Consultation Proposal (B+) for Most Likely, Minimum and Maximum	Eldeg Rosser
0.3	21/07/2021	Acute to community step-down outpatients assumption clarified. Min, Likely, Max not required here.	Gareth Jenkins
04	12/08/2021	Removal of narrative re virtual consultation as the model does not currently transact any of this Note added to Design Assumption 2 that manual adjustments have been made outside of the model	Eldeg Rosser

# Approvals

This document requires the following approvals.

Name	Title	Date of Issue	Version
Anthony Tracey	Assistant Director of Digital Services	28/04/2021	

#### Distribution

This document has been distributed to:

No.	Name	Title	Date of Issue	Version
	Anthony Tracey	Assistant Director of Digital Services	28/04/2021	0.1
	Gareth Beynon	Head of Information Services	28/04/2021	0.1
	Gareth Thomas	Information Development Manager	28/04/2021	0.1
	Gareth Jenkins	Advanced Analyst	28/04/2021	0.1
	Mark Berford	Director – Perfectly Data	28/04/2021	0.1
	Matt Hill	Director – MH Insight Ltd	28/04/2021	0.1
	Anthony Tracey	Assistant Director of Digital Services	12/07/2021	0.2
	Gareth Beynon	Head of Information Services	12/07/2021	0.2
	Gareth Thomas	Information Development Manager	12/07/2021	0.2
	Gareth Jenkins	Advanced Analyst	12/07/2021	0.2
	Mark Berford	Director – Perfectly Data	12/07/2021	0.2
	Matt Hill	Director – MH Insight Ltd	12/07/2021	0.2
	Paul Williams	Williams Assistant Director of Strategic Planning		0.2
	Eldeg Rosser	Head of capital Planning	12/07/2021	0.2
	Anthony Tracey	Assistant Director of Digital Services	12/07/2021	0.3
	Gareth Beynon	Head of Information Services	12/07/2021	0.3
	Gareth Thomas	Information Development Manager	12/07/2021	0.3
	Gareth Jenkins Advanced Analyst		12/07/2021	0.3
	Eldeg Rosser Head of Capital Planning		12/07/2021	0.3
	Anthony Tracey	Assistant Director of Digital Services	12/08/2021	0.4
	Gareth Beynon	Head of Information Services	12/08/2021	0.4
	Gareth Thomas	Information Development Manager	12/08/2021	0.4

O I GBwrdd Iechyd PrifysgolHywel DdaUniversity Health Board

Gareth Jenkins	Advanced Analyst	12/08/2021	0.4
Eldeg Rosser	Head of Capital Planning	12/08/2021	0.4
Rhian Davies	Assistant Finance Director	12/08/2021	0.4



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2	Design Assumptions	. 5



# **1** Purpose of Document

The purpose of this document is to provide the latest Health Board design assumptions currently being pursued by the Programme Business Case (PBC).

The design assumptions in v0.2 are taken from the design assumptions used Likely scenario – based on the Consultation Design Assumptions Minimum and Maximum scenarios taken form PBC working papers form the period 2018-2020 The levels of these targets are detailed in the following table and Appendices.

# 2 Design Assumptions

The design assumption and the proposed level of Minimum/Likely/Maximum ambitions are:

Population Population Impact of increase in the population over 7 years (to 2024/25)	Agreed as is, but note original power bi horizon model has a ten year projection.
Site changes	<ul> <li>Agreed as is.</li> <li>Manual adjustments made outside of the model</li> </ul>
Admission avoidance 40% Reduction to existing levels of emergency admissions for ACS conditions	<ul> <li>Minimum 30%</li> <li>Likely 40%</li> <li>Maximum 50%</li> <li>As per Appendix 1</li> </ul>
Bed discharge	<ul> <li>Assumption is applied in original Horizon model.</li> <li>As per Assumptions in Appendix 2</li> </ul>

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Outpatient change	ard
Reduction in follow- up outpatient	<ul> <li>Minimum - 15% reduction</li> <li>Likely - 25% reduction</li> <li>Maximum - 35% reduction</li> <li>As per Appendix 3</li> </ul>
A&E/MIU change	<ul> <li>Agreed as is.</li> <li>Assumption is applied in original Horizon model.</li> <li>As per Assumptions in Appendix 4</li> </ul>
Reduction in overall level of A&E & MIU attendance (net 0% change against demographic growth over 7 years) A&E/MIU proportions 30%	<ul> <li>Agreed as is.</li> <li>Assumption is applied in original Horizon model</li> <li>As per Assumptions in Appendix 4</li> </ul>
Attendances currently presenting at A&E will present at MIUs instead Acute to community	
step-down – beds 50%	<ul> <li>Minimum - 40%</li> <li>Likely - 50%</li> <li>Maximum - 60%</li> <li>As per Assumptions in Appendix 5</li> </ul>
Acute to community step-down – outpatients 90% New and follow-up appointments will take place in a	<ul> <li>90% of remainder of the onsite OP's to be done in Community setting.</li> <li>As per Appendix 3</li> </ul>
community setting Daycase community hub shift 50% Daycases for medical specialties will take place in a community	<ul> <li>Assumption is applied in original Horizon model</li> <li>Minimum 40%</li> <li>Likely 50%</li> <li>Maximum 60%</li> <li>As per Appendix 6</li> </ul>

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Admission / Attendance Avoidance: Reduction in admissions / A&E attendance through increased use of community locality services

Row Labels	Spells	% Change	New Care Package for displaced activity	% Requiring further support	Min	Likely	Max
Kidney Infection and UTI	2,277	-40%	AA Streaming	100%	-30%	-40%	-50
Cellulitis and other skin infections	1,116	-40%	AA Streaming	100%	-30%	-40%	-50
Dehydration and gastroenteritis	1,403	-40%	AA Streaming	100%	-30%	-40%	-5(
Influenza and Pneumonia	1,290	-40%	AA Streaming	100%	-30%	-40%	-50
Congestive heart failure	663	-40%	AA Streaming	100%	-30%	-40%	-50
COPD	971	-40%	AA Streaming	100%	-30%	-40%	-5(
Ulcers and Cystitis	593	-40%	AA Streaming	100%	-30%	-40%	-50
Angina	488	-40%	AA Streaming	100%	-30%	-40%	-5(
Gangrene	151	-40%	AA Streaming	100%	-30%	-40%	-5(
Convulsions and Epilepsy	326	-40%	AA Streaming	100%	-30%	-40%	-50
Atrial fibrillation and flutter	697	-40%	AA Streaming	100%	-30%	-40%	-5(
Dementia	68	-40%	AA Streaming	100%	-30%	-40%	-50
ENT Infections	237	-40%	AA Streaming	100%	-30%	-40%	-50
Diabetes	311	-40%	AA Streaming	100%	-30%	-40%	-5(
Dental conditions	85	-40%	AA Streaming	100%	-30%	-40%	-50
Epilepsy	191	-40%	AA Streaming	100%	-30%	-40%	-50
Asthma	238	-40%	AA Streaming	100%	-30%	-40%	-50
Anaemia	115	-40%	AA Streaming	100%	-30%	-40%	-50
Pyelonephritis	80	-40%	AA Streaming	100%	-30%	-40%	-50
Hypertension	99	-40%	AA Streaming	100%	-30%	-40%	-50
Vaccine Preventable	2	-40%	AA Streaming	100%	-30%	-40%	-50
Nutrition	2	-40%	AA Streaming	100%	-30%	-40%	-50
Other	586,629	0%	AA Streaming	100%	0%	0%	(

#### Level 1 - Primary care networks

First point of contact: GP, Dentist, Pharmacist, OOH, WAST, NHS Direct, Crisis intervention (may be some overlap with Level 2)

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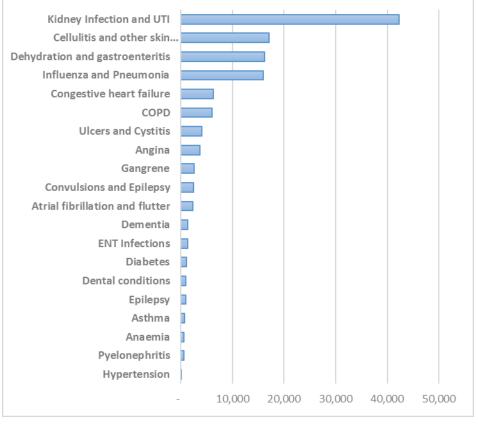
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-50% 0%



Approximately 11,000 admissions and 125,000 bed days are attributable to emergency admissions for either chronic or acute ACS conditions that should not usually require hospital admission across Hywel Dda sites each year. This is approximately 40% of all bed days. ACSs are conditions where effective community care and case management can help prevent the need for hospital admission. There are 19 ACSC's identified across the following categories: Vaccine preventable Chronic Acute Where an individual has been admitted for an acute ACS condition, it may indicate that they have deteriorated more than should have been allowed by the adequate provision of healthcare in primary care or as a hospital outpatient. Where an individual has been admitted for a chronic ACS condition, it is an indicator of how successfully long term conditions like asthma, diabetes, epilepsy and dementia are being managed in the community setting. There are variances in the rate between different localities, suggesting that there is more scope in some areas for improvement in admission avoidance and supporting people with long term conditions more effectively in the community.

# Bed Days attributable to ACS Conditions (2016)



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Earlier Supported Discharge: Earlier supported discharge to the out of hospital setting, increased use of community locality services

Shift sensitivity LoS

Peer Reductions - data

Adm Type	· ·	Likely	New Care Package for displaced activity		Min			Max	% Change Welsh HB 50th percentile Risk Adjusted	% Change HDU Performance Peer 50th percentile Risk Adjusted	2018 50th percentile Risk Adjusted	%Change Top Hospitals 2018 75th percentile Risk Adjusted
EL	Cardiology		ESD Streaming	100%		0%	0%		09			
EL	Clinical Haematology		ESD Streaming	100%		0%	0%		09			
EL	Clinical Oncology		ESD Streaming	100%		0%	0%		09			
EL	ENT	-42%	ESD Streaming ESD Streaming	100% 100%		0% 0%	-42%		09			
EL	Gastroenterology General Medicine		ESD Streaming ESD Streaming	100%		0%	-32%		09			
EL	General Niedicine General Surgery		ESD Streaming	100%		0%	-12%		09			
	Gynaecology		ESD Streaming	100%		-37%	-12%		-379			
EL	Medical Oncology		ESD Streaming	100%		-37%	-52%		-377			
EL	Midwifery		ESD Streaming	100%		0%	0%		09			
FI	Antenatal Obstetrics	0%	ESD Streaming	100%		0%	0%		09			
EL	Obstetrics		ESD Streaming	100%		0%	-9%		09			
FI	Ophthalmology		ESD Streaming	100%		0%	-34%		09			
	Oral Surgery		ESD Streaming	100%		0%	0%		09			
	Paediatric Medicine		ESD Streaming	100%		0%	0%		09			
	Pain Management	0%	ESD Streaming	100%		0%	0%		09			
	Palliative Medicine		ESD Streaming	100%		0%	0%		09			
EL	Trauma & Orthopaedics	-9%	ESD Streaming	100%		0%	-9%		09			
EL	Urology		ESD Streaming	100%		-19%	-32%		-199			
	Elderly Medicine		ESD Streaming	100%		0%	-28%		09			
EL	General Practice - Other than Maternity		ESD Streaming	100%		0%	0%		09			
EL	Rheumatology	0%	ESD Streaming	100%		0%	0%		09	6 0%	0%	
EL	Nephrology		ESD Streaming	100%		0%	0%		09	6 0%	0%	
NE	Accident & Emergency		ESD Streaming	100%		-7%	-14%		-79			
NE	Anaesthetics	0%	ESD Streaming	100%		0%	0%	-42%	09	6 0%	0%	
NE	Cardiology	-5%	ESD Streaming	100%		-2%	-5%	-21%	-29	-5%	-7%	
NE	Clinical Haematology	0%	ESD Streaming	100%		0%	0%	0%	09	6 0%	0%	6 0%
NE	Dermatology	0%	ESD Streaming	100%		0%	0%	0%	09	6 0%	0%	6 0%
NE	Elderly Medicine	-22%	ESD Streaming	100%		-15%	-22%	-31%	-159	-22%	-24%	-31%
NE	Endocrinology	-30%	ESD Streaming	100%		-18%	-30%	-33%	-189	-30%	-30%	
	ENT		ESD Streaming	100%		0%	-2%		09			
NE	Gastroenterology		ESD Streaming	100%		0%	0%		09			
NE	General Medicine	-15%	ESD Streaming	100%		-8%	-15%		-89			
	General Practice - Other than Maternity		ESD Streaming	100%		0%	0%		09			
	General Surgery		ESD Streaming	100%		-1%	-13%		-19			
NE	Gynaecology		ESD Streaming	100%		0%	0%		09			
NE	Medical Oncology		ESD Streaming	100%		0%	-6%		09			
NE	Midwifery		ESD Streaming	100%		0%	-7%		09			
NE	Nephrology		ESD Streaming	100%		0%	0%		09			
NE	Obstetrics		ESD Streaming	100%		0%	-3%		09			
	Ophthalmology		ESD Streaming	100%		0%	0%		09			
	Paediatric Medicine		ESD Streaming	100%		0%	0%		09			
	Pain Management	0%	ESD Streaming	100%		0%	0%		09			
NE NE	Palliative Medicine	0%	ESD Streaming	100% 100%		0% 0%	0%		09			
	Rheumatology		ESD Streaming	100%								
NE	Trauma & Orthopaedics	-18%	ESD Streaming	100%		-3% -15%	-18%		-39			
NE NE	Urology		ESD Streaming ESD Streaming	100%		-15% 0%	-33%		-159			
NE	Haematology	0%	ESD Streaming ESD Streaming	100%		0%	0%		09			
	Neurology		•	100%					09			
NE NE	Antenatal Obstetrics		ESD Streaming ESD Streaming	100%		0% 0%	0%		09			
INC	Clinical Oncology	0%	LSD Streaming	100%		0%	0%	0%	0%	0%	0%	6 0%

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Outpatient Assumptions: % with support in community hubs rather than Hospital Sites, Changes in Follow up activity

#### Sensitivity Analysis (change in activity): Sensitivity Analysis (change in activity): Min Attendance Type Subspecialty % Change in activity % of activity carried provided in Community Hubs Likely Max Likely Max Min Accident & Emergency 0% 0% 90% 0% 0% 75% 90% Anaesthetics 0% 90% 0% 0% 0% 75% 90% Antenatal Obstetrics 0% 90% 0% 0% 0% 75% 90% 0% Audiological Medicine 0% 90% 0% 0% 75% 90% 0% 90% 0% 0% 75% 90% 0% FA Cardiology Chemical Pathology 0% FA 0% 90% 0% 0% 75% 90% **Clinical Genetics** FA 0% 90% 0% 0% 0% 75% 90% 0% 90% 0% 0% 0% 75% 90% Clinical Haematology FA 0% 0% 90% 0% 0% 75% 90% FA **Clinical Neurophysiolog** FA Clinical Oncology 0% 90% 0% 0% 0% 75% 90% 0% 90% 0% 0% 0% 75% 90% Dermatology 90% 0% Endocrinology 0% 0% 0% 75% 90% 0% 90% 0% 0% 75% 90% FA ENT 0% FA Gastroenterology 0% 90% 0% 0% 0% 75% 90% General Medicine 0% 90% 0% 0% 0% 75% 90% FA 90% 0% 0% 0% 0% 75% 90% FA Elderly Medicine 0% 90% 0% 0% 0% 75% 90% FA General Surgery 0% FA Gynaecology 0% 90% 0% 0% 75% 90% Haematology 0% 90% 0% 0% 0% 75% 90% 0% 90% 0% 0% 0% 75% 90% Medical Oncology FA 0% FA Midwifery 0% 90% 0% 0% 75% 90% FA Nephrology 0% 90% 0% 0% 0% 75% 90% 0% 90% 0% 0% 0% 75% 90% Neurology 0% 90% 0% 0% 0% 75% 90% FA Neurosurgerv 0% 90% 0% 0% 75% 90% FA Ophthalmology 0% 0% FA Oral Surgery 0% 90% 0% 0% 75% 90% Paediatric Medicine 0% 90% 0% 0% 0% 75% 90% Paediatric Neurology 0% 90% 0% 0% 0% 75% 90% FA 0% 0% 90% 0% 0% 75% 90% Pain Management 0% FA Palliative Medicine 0% 90% 0% 0% 75% 90% Postnatal Obstetrics 0% 90% 0% 0% 0% 75% 90% 0% 0% Rheumatology 0% 90% 0% 75% 90% FA Trauma & Orthopaedics 0% 90% 0% 0% 75% 90% 0% FA Urology 0% 90% 0% 0% 0% 75% 90% FA FU 90% -15% -25% -35% 75% 90% Anaesthetics 90% -15% -35% 75% 90% FU Antenatal Obstetrics -25% -25% Audiological Medicine -25% 90% -15% -25% -35% 75% 90% Cardiology FU -25% 90% -15% -25% -35% 75% 90% FU Chemical Pathology -25% 90% -15% -25% -35% 75% 90% 90% -35% -15% -25% 75% 90% **Clinical Genetics** -25% Clinical Haematology FU -25% 90% -15% -25% -35% 75% 90% Clinical Oncology -25% 90% -15% -25% -35% 75% 90% 90% -15% -25% -35% 75% Dermatology -25% 90% -25% 90% -15% -25% -35% 75% 90% FU Endocrinology FU ENT -25% 90% -15% -25% -35% 75% 90% Gastroenterology -25% 90% -15% -25% -35% 75% 90% FU General Medicine -25% 90% -15% -25% -35% 75% 90% 90% -15% -25% -35% 75% 90% -25% Elderly Medicine 90% -15% -35% 75% 90% FU General Surgery -25% FU Gynaecology -25% 90% -15% -25% -35% 75% 90% -25% 90% -15% -25% -35% 75% FU Haematology 90% 90% -15% -25% -35% 75% 90% Medical Oncology -35% FU Midwifery -25% 90% -15% -25% 75% 90% FU Nephrology -25% 90% -15% -25% -35% 75% 90% 90% -35% 75% FU -25% -15% -25% 90% Neurology 90% -15% -35% 75% -25% -25% 90% Neurosurgery FU Ophthalmology -25% 90% -15% -25% -35% 75% 90% Paediatric Medicine -25% 90% -15% -25% -35% 75% 90% FU -25% 90% -15% -25% -35% 75% 90% FU Paediatric Neurology 90% -15% -25% -35% 75% 90% FU Pain Management FU Palliative Medicine -25% 90% -15% -25% -35% 75% 90% Postnatal Obstetrics -25% 90% -15% -25% -35% 75% 90% 90% -35% 75% FU -25% 15% -25% 90% Rheumatology FU Trauma & Orthopaedics -25% 90% -15% -25% -35% 75% 90% -15% 90% -25% -35% 75% 90% Urology

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A&E & MIU Assumptions: Activity Change and % suitable for MIU

Locaility	% Change in activity	% of existing A&E attendances suitable for MIU
Llanelli	-4.3%	30%
North Pembrokeshire	-4.3%	30%
North Ceredigion	-4.3%	30%
South Pembrokeshire	-4.3%	30%
Amman/Gwendraeth	-4.3%	30%
Taf / Teifi / Tywi	-4.3%	30%
South Ceredigion	-4.3%	30%
Other	-4.3%	30%

Sensitivity Ar	Sensitivity Analysis (change in activity):					
Min	Likely	Max				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				
5.7%	-4.3%	-10%				

Assumption is that this activity is minor activity that can be diverted with better access to primary care teams etc.

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Shift from acute to community hospitals: Assumptions on max stay in acute care, point of transfer to community hub (this before the impact of any out of hospital shifts)

Subspecialty	Urgent Care Centre Trim point	% to shift at Trim Point
Accident & Emergency	3	50%
Anaesthetics	3	50%
Cardiology	3	50%
Clinical Haematology	3	50%
Clinical Oncology	3	50%
Dermatology	3	50%
Elderly Medicine	3	50%
Endocrinology	3	50%
ENT	3	50%
Gastroenterology	3	50%
General Medicine	3	50%
General Practice - Other than Maternity	3	50%
General Surgery	3	50%
Gynaecology	3	50%
Antenatal Obstetrics	999	50%
Haematology	3	50%
Medical Oncology	3	50%
Midwifery	999	50%
Nephrology	3	50%
Neurology	3	50%
Obstetrics	999	50%
Ophthalmology	3	50%
Oral Surgery	3	50%
Paediatric Medicine	999	50%
Pain Management	3	50%
Palliative Medicine	3	50%
Radiology	3	50%
Rheumatology	3	50%
Trauma & Orthopaedics	3	50%
Urology	3	50%

Acute Trim Point		% to shift at Trim Point
	3	50%
	3	50%
	3	50%
	3	50%
	3	50%
	3	50%
	3	50%
	3	50%
	3	50%
	3	50%
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9	99	50%
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	3	50%

Shift sensi Min	Likely	Max		/lin	tivity Acute	Max
40%	50%	60%	, n	40%	50%	IVIAX
40%	50%	60%	-	40%	50%	
			_			
40%	50%	60%		40%	50%	
40%	50%	60%	_	40%	50%	
40%	50%	60%		40%	50%	1
40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
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40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
40%	50%	60%		40%	50%	
	5570					

60% 60%

Document Name: Appendix 8A - Design Assumptions2 S:\Hywel Dda\Corporate Services Directorate\LHB Board & Stat Committee\Public Board\13. 2022\1. 27 January 2022\Web papers\Item 3.1.3 PBC\Appendix 8\Appendix 8A - Design Assumptions.docx Author: Gareth Jenkins

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## Daycase Assumptions: Throughput

Subspecialty	Days per year	Daycase Throughput (cases per bed per day)	% of daycase activity provided in Community Hubs
Anaesthetics	252	1.5	0%
Cardiology	252	1.5	50%
Clinical Haematology	252	1.5	50%
Clinical Oncology	252	1.5	50%
Dermatology	252	1.5	50%
Elderly Medicine	252	1.5	50%
Endocrinology	252	1.5	50%
ENT	252	1.5	0%
Gastroenterology	252	1.5	50%
General Medicine	252	1.5	50%
General Surgery	252	1.5	0%
Gynaecology	252	1.5	0%
Haematology	252	1.5	50%
Medical Oncology	252	1.5	50%
Nephrology	252	1.5	50%
Neurology	252	1.5	50%
Obstetrics	252	1.5	0%
Ophthalmology	252	1.5	50%
Oral Surgery	252	1.5	0%
Paediatric Medicine	252	1.5	50%
Pain Management	252	1.5	0%
Palliative Medicine	252	1.5	50%
Radiology	252	1.5	0%
Rheumatology	252	1.5	50%
Trauma & Orthopaedics	252	1.5	0%
Urology	252	1.5	0%

Min	Likely	Max
0%	0%	0%
40%	50%	60%
40%	50%	60%
40%	50%	60%
40%	50%	<mark>60%</mark>
40%	50%	60%
40%	50%	60%
0%	0%	0%
40%	50%	60%
40%	50%	60%
0%	0%	0%
0%	0%	0%
40%	50%	60%
40%	50%	60%
40%	50%	<mark>60%</mark>
40%	50%	60%
0%	0%	0%
40%	50%	60%
0%	0%	0%
40%	50%	60%
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40%	50%	<mark>60%</mark>
0%	0%	0%
40%	50%	60%
0%	0%	0%
0%	0%	0%