

PWYLLGOR ADNODDAU CYNALIADWY SUSTAINABLE RESOURCES COMMITTEE

DYDDIAD Y CYFARFOD: DATE OF MEETING:	29 August 2023
TEITL YR ADRODDIAD: TITLE OF REPORT:	Finance Targeted Intervention Actions
CYFARWYDDWR ARWEINIOL: LEAD DIRECTOR:	Huw Thomas, Director of Finance
SWYDDOG ADRODD: REPORTING OFFICER:	Andrew Spratt, Deputy Director of Finance

Pwrpas yr Adroddiad (dewiswch fel yn addas)
Purpose of the Report (select as appropriate)

Ar Gyfer Trafodaeth/For Discussion

ADRODDIAD SCAA SBAR REPORT

Sefyllfa / Situation

The Health Board has been escalated into Targeted Intervention (TI) by Welsh Government (WG) on 29 September 2022 for Planning and Finance.

The Audit and Risk Assurance Committee oversees progress against the Health Boards response to TI, however, this report highlights the key finance function specific actions and their progress.

Cefndir / Background

Work has been ongoing since the inception of TI in late 2022, to address the deliverables highlighted by WG. Significant progress has been made on the finance function specific actions, which cumulated in two reports being presented to the Quarterly TI Meeting held in March 2023 for formal sign-off, and a third report presented to the June 2023 TI Quarterly meeting, all of which were formally acknowledged as complete from a finance function accountability perspective.

This report sets out the key updates pertinent to the Finance functions actions and includes the work that has been submitted and accepted by WG and clarifies the remaining Finance actions.

Asesiad / Assessment

The accompanying PowerPoint presentation articulates the progress, status, and remaining next steps against the final deliverable, an opportunities framework and financial roadmap.

The four identified actions for the finance function are summarised below with their status:

- 1. **Drivers of the financial deficit from £25m to £62m** Complete, signed off in March 2023
- 2. Opportunities framework continuous development and implementation Inprogress and covered with the accompanying presentation.

Page 1 of 3

- 3. **Health Board Delivery Framework** complete, signed off in March 2023, with clear Master Actions generated into the organisation for further implementation.
- 4. Review financial management arrangements complete, signed off in June 2023.

Argymhelliad / Recommendation

The Sustainable Resources Committee is asked to note and discuss the progress to date, and forward plans, to enable completion of all finance function specific TI deliverables.

Amcanion: (rhaid cwblhau) Objectives: (must be completed)	
Committee ToR Reference: Cyfeirnod Cylch Gorchwyl y Pwyllgor:	4.5 Provide assurance on financial performance and delivery against Health Board financial plans and objectives and, on financial control, giving early warning on potential performance issues and making recommendations for action to continuously improve the financial position of the organisation, focusing in detail on specific issues where financial performance is showing deterioration or there are areas of concern.
Cyfeirnod Cofrestr Risg Datix a Sgôr Cyfredol: Datix Risk Register Reference and Score:	New Risk (score 25) Achieving financial sustainability.
Galluogwyr Ansawdd: Enablers of Quality: Quality and Engagement Act (sharepoint.com)	6. All Apply
Parthau Ansawdd: Domains of Quality Quality and Engagement Act (sharepoint.com)	Timely Person-Centred
Amcanion Strategol y BIP: UHB Strategic Objectives:	All Strategic Objectives are applicable
Amcanion Cynllunio Planning Objectives	All Planning Objectives Apply
Amcanion Llesiant BIP: UHB Well-being Objectives: Hyperlink to HDdUHB Well-being Objectives Annual Report 2021-2022	9. All HDdUHB Well-being Objectives apply

Gwybodaeth Ychwanegol: Further Information:

Ar sail tystiolaeth: Evidence Base:	KPMG Recommendations and Financial Deficit.
Rhestr Termau: Glossary of Terms:	Contained within the report
Partïon / Pwyllgorau â ymgynhorwyd ymlaen llaw y Pwyllgor Adnoddau Cynaliadwy: Parties / Committees consulted prior to Sustainable Resources Committee:	Finance Team Management Team Executive Team Welsh Government NHS Executive – Financial Planning and Delivery

Effaith: (rhaid cwblhau) Impact: (must be completed)	
Ariannol / Gwerth am Arian: Financial / Service:	Financial implications are inherent within the report.
Ansawdd / Gofal Claf: Quality / Patient Care:	The impact on patient care is assessed within the savings schemes.
Gweithlu: Workforce:	The report considers the financial implications of our workforce.
Risg: Risk:	Financial risks are detailed in the report.
Cyfreithiol: Legal:	HDdUHB has a legal duty to deliver a breakeven financial position over a rolling three-year basis and an administrative requirement to operate within its budget within any given financial year.
Enw Da: Reputational:	Adverse variance against HDdUHB's financial plan will affect its reputation with Welsh Government, Audit Wales, and with external stakeholders.
Gyfrinachedd: Privacy:	Not applicable.
Cydraddoldeb: Equality:	Not applicable.

Contents

Introduction	2
Opportunities Framework	2
Fit with other Process and Principles Documents	
Sources	
Frequency	

Page | 1

Introduction

As part of the Finance Function's support to the Health Board, there are three specific responsibilities where the Opportunities Framework Process will contribute to the accountability for and stewardship of resources, namely:

- Maximise and secure all resources due to the Health Board.
- Support the effective allocation of these resources.
- Monitor the appropriate and efficient use of these resources.

In this regard the Health Board's Business Intelligence and Value Team, within the Finance function, will be responsible for collating, summarising and sharing such data, particularly where said data contains a financial measure. This can include data submitted from other areas of the Health Board, for sharing via the construction of summarised reports, presentations and other products, periodically updated with refreshed data as it becomes available.

A specific aim of the Opportunities Framework is to describe relative financial performance in an operational and clinical context, through connection or triangulation of data with activity and quality metrics. It must however be noted that such analysis depends upon the routine availability and quality of operational data, thereby limiting the scope and coverage of the Health Board to areas where such data is made available.

Estimates of waste in healthcare vary by study but the OECD¹ for example suggested that 15 to 30% of healthcare activities could be viewed as wasteful in some way. In trying to identify some of this waste, varying forms of analysis have been undertaken and this Framework relies largely upon analysing published comparative studies, to filter from an overall wastage to specific variations, where possible then directing these to internal pathways, conditions or teams for their consideration. For example whether warranted or unwarranted variation has been highlighted is largely a clinical rather than managerial decision. From this analysis, conversion to formal process improvement or savings exploration could be considered by the clinical and operational teams.

Opportunities Framework

The opportunities framework process was introduced in 2020, alongside work generated by the Business Intelligence and Value (finance) Team it considers external data sources, including but not limited to:

- NHS Benchmarking Network;
- Finance Delivery Unit and their VAULT;
- reference cost data
- Efficiency Group established by NHS Wales Directors of Finance and, via this link, outputs from the NHS Wales Utilisation of Resources Group
- relevant research from health research organisations such as King's Fund, Nuffield Trust, IPPR, NIHCR etc
- relevant published research papers from eg BMJ, clinical journals and consultancies
- NHS England good practice guides, GiRFT review outcomes etc
- CHKS.

2/6 5/36

¹ Tackling Wasteful Spending on Health, OECD, 2017

Then, having identified potential waste and variation in comparison to others, such data is then passed into the organisation. This can and should be a two-way process, as within each operational team such data is considered and triangulated, alongside each individual's or team's own insights, plans and practical knowledge. As the diagram below outlines.

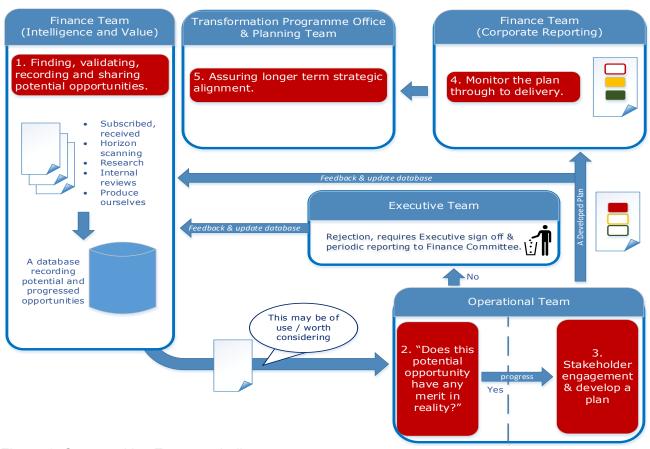


Figure 1: Opportunities Framework diagram

Feedback may remove some entries or data sources over time, be that proven error in representation, expiry of a data source or a change in the underlying analysis. For example a variation would automatically be removed when the variation ceases or becomes positive, whether achieved through conscious operational action or otherwise. The underlying measure and monitoring would also remain fluid due to the actions of other parties, given that comparator organisations would also be expected to periodically alter their data and thereby relative position. However, it should be noted that most of the variation uncovered through detailed high-level analysis of the Health Board's variation compared to other Health Boards does not change over time, since it relates to the configuration of service delivery, demography or other largely fixed factors. For example, it is well known and understood that the cost per attendance at the four emergency departments and MIU are significantly higher than elsewhere. This is due to innate inefficiency and unavoidable costs caused by providing care from four district general hospitals, as opposed to potentially more economic delivery in theory if services could consolidate onto fewer sites.

Most recently, the deterioration in the Health Board's financial performance, coupled with the impact of the pandemic on every area of the Health Board's performance, acted as a trigger to review and revise the high-level strategic intelligence. With this in mind, the process was adapted, adding strategic prompts or challenges, in recognition that re-allocation and more transformational actions would be required to meet such a significant challenge. These will also be maintained and

added to over time, but it is expected that these fundamental configuration issues will not be able to be ameliorated until the delivery of the Healthier Mid and West Wales Strategy is underway.

Fit with other Process and Principles Documents

Figure 2 below illustrating that the scope of this document, and thereby the Business Intelligence and Value Team is limited to this first 'discover' phase. Thereafter having an advisory role to explain the quality, sourcing and advise upon appropriate use of such intelligence data, with financial responsibilities for production and monitoring of savings plans moving to other areas of the function, as described by the respective Process and Principles Documents.

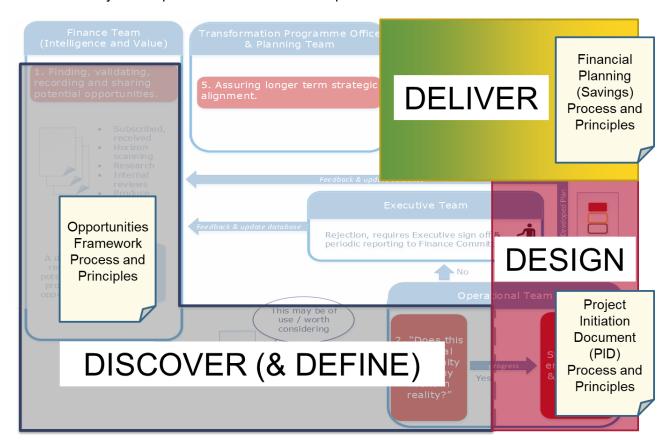


Figure 2: Opportunities Framework diagram, overlain with 3D process and the appropriate financial Process and Principles document for each phase

This process is also consistent with the Health Board's phased 3D (discover, design and deliver) improvement approach. Figure 2 overlaying the Opportunities Framework diagram with a broad illustration of phases in the 3D approach. As noted, the figure also cross-referencing the most appropriate financial guidance, as a potential opportunity, or element thereof, inspires a specific and measurable change a formal PID would be expected, which would in turn generate an opening entry to the formal savings schedule and ongoing monitoring of delivery through that process.

In moving from opportunities to generating a specific savings plan a consideration of key planning priorities and an articulation of key assumptions, achievability and acceptability are expected. Particularly important when moving from contained and largely technical efficiency opportunities within an accountable officer's own sphere of control to those more allocative and transformational opportunities that may span multiple accountabilities. The process recognising that in many

Page | 4

instances, whilst accountability and empowerment reside with individuals and teams, support from enablers may be required, particularly for those latter more complex allocative or transformational changes, examples include:

- External to the Health Board: the Value in Health programme, Bevan Commission, Delivery Unit, Safe Care Partnership, ARCH and the 6 Goals Programme.
- Internal support includes the Transformation Programme Office, Improving Together, Value Based Healthcare and the Enabling Quality Improvement in Practice (EQIiP) programme.

Sources

Specific products that the Business Intelligence and Value team contribute to or utilise to meet these internal and external data requirements, include:

Reference Costs, Programme Budgeting and Time-Driven Activity-Based Costing (TDABC)

The analysis undertaken by the team includes detailed investigations into how we allocate resources across different illness categories; how our costs compare to other health boards (at specialty, site, procedure and other levels); and also through supporting detailed pathway costing exercises. Considering the Health Board as both a population-based commissioner of services, as well as the efficiency of its service provision.

NHS Benchmarking Network (NHSBN)

Whilst the Health Board remains a member, and dependent upon participation, annual projects include: Intermediate Care, Urgent & Emergency Care & SDEC, Pharmacy & Meds Optimisation, Community Services, Frailty, Mental Health, Operating Theatres and Outpatients.

CHKS,

Providers of healthcare intelligence to members and again dependent upon participation to fully realise comparative value of data. CHKS detailed scorecards and cost and activity comparisons lead to strategic intelligence that includes "top ten" NHS trust performance comparisons as well as comparisons of all-Wales cost and activity measures.

Estates and Facilities Performance Management System (EFPMS)

A collection of estates and facilities data established by Welsh Government to improve the management of NHS estate in Wales.

Medicines Management

In collaboration with local and national pharmacy programme and the All-Wales Medicines Strategy Group

The Value, Allocation, Utilisation & Learning Toolkit (VAULT)

A product of Financial Planning & Delivery (NHS Wales Executive) on behalf of NHS Wales, having four key strands: Population Health, Technical Efficiency, System Insights, Value-Based Healthcare (VBHC).

Frequency

Files are available electronically and accessible to the Finance Function via a central and secure folder location, to allow for ease of updating and also ensuring the latest version is visible. Updates are dependent upon underlying data refresh cycles and may include sources from a single point in time study but will be dated to show their reference period(s). Refresh for a new source would be expected within a period of up to three months, from such publication, to allow for analysis,

validation and presentation. The table below giving a broad indication of publication and thereby update frequency.

Area	Frequency data updated						
Benchmarking							
NHS BN	As per NHS BN timetable - typically quarters 3 & 4						
	Supplemented by an annual overview, typically quarter 1 of following year						
CHKS	Live data with peer comparators; occasional WG led annual review tends to be received quarter 1 of following year						
Reference Cost returns and associated intelligence	Annually from December through quarter 4						
Most expensive patients (Hywel Dda)	December						
VAULT	periodic, will be reviewed quarterly						
Locality analysis tool (Hywel Dda)	A fixed point analysis, future requirements will be met through PRIA*						
Demographic and o	ther support data						
ONS and other demographic data	Various (Census release, annual, other ad hoc products)						
Stats Wales	Various (annual releases and other ad hoc products)						
Information Services and Performance (IRIS and local PowerBI)	Live and periodic, as required						
Lightfoot SFN	Live						
GMS expenditure	Monthly						
Adho	oc .						
Health think tanks and other reports	Ad hoc						
Public Health Wales	Ad hoc						
Efficiency DoF Sub-Group	Ad hoc						
Strategic Financial Intelligence DoF Sub-Group (SFIG)	Ad hoc						

^{*} PRIA - Population Resource Intelligence Atlas, being produced via SFIG and Financial Planning & Delivery (NHS Wales Executive)

Figure 3: sources and publication schedules

As outlined above, the scale of the financial challenge facing the health board means that the greatest impact will be seen from transformational programmes of change. Areas such as urgent and emergency care require a wholesale shift of resources away from a high cost / low value hospital model of care, which traditional sources of business and financial intelligence capture routinely, to typically higher value but less data rich areas of healthcare. Nevertheless, the Value and BI team endeavour to create bespoke intelligence products to identify and track suitable performance and financial measures specific to each programme.



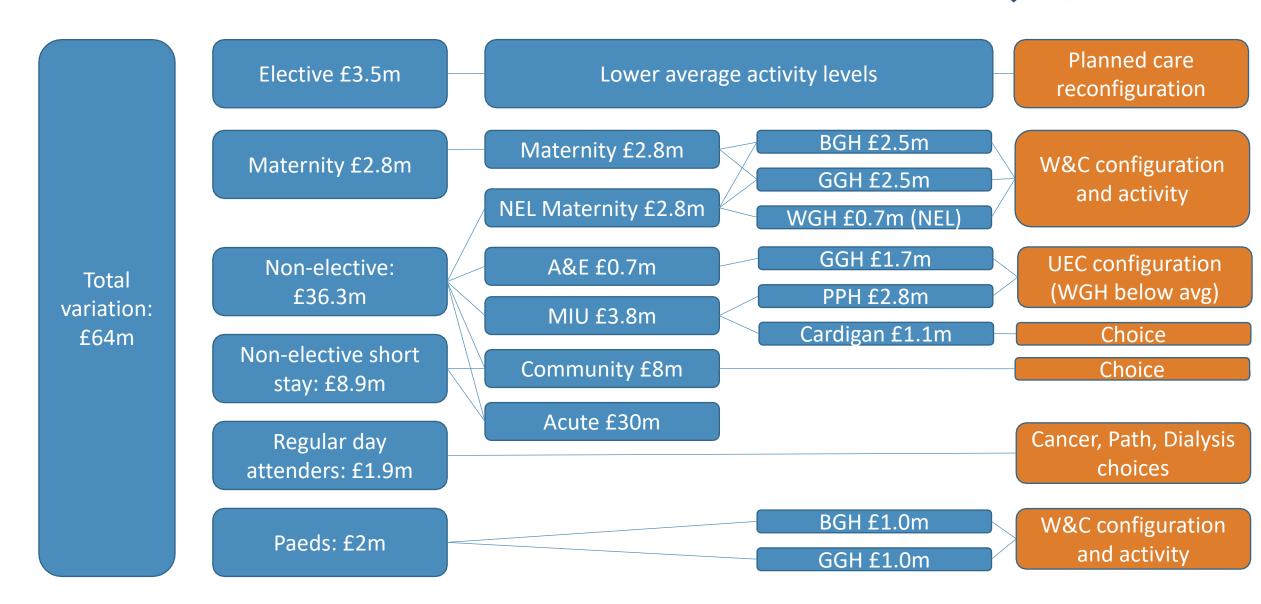
Agenda



- 1 High level analysis cost variation / scale of opportunity
- 2 Mid level analysis
- 3 Next steps

High level analysis – cost variation (Scale of opportunity)





Mid level analysis – HRG comparison



Healthcare resource groups

What are HRGs?

- Standard groupings of clinically similar treatments
- Always for comparisons of resources used for delivering care to patients with similar needs
- Removes debate around complexity of individual patient need
- Very useful tool to allow benchmarking within and between NHS providers
- Was formerly used in England to establish the tariff for remuneration under Payment by Results

Mid level analysis – HRG comparison - approach



Approach

- Use the costing return WCR2 to compare HRGs across Wales
- Concentrate on those specialties or PODs with the largest cost variation to the Rest of Wales
- Within each speciality, analyse those HRGs with the largest variation down to cost pool level – ward costs, theatre costs, medicines etc
- Identify key themes, areas, etc and summarise results



Health Board	HDUHB
HRG	Sum of Var £
UZ01Z	1,296,439
GA10K	416,321
FF62D	277,896
FE21Z	208,983
FE35Z	205,733
GA10J	179,811
FE32Z	165,675
FF32C	159,390
FE22Z	151,454
FE31Z	145,510
FF22D	140,941
FF31D	125,312
JA20F	105,105
Others (net)	1,136,003
Total	4,714,573

Commentary

- Elective General Surgery total cost variation to the Rest of Wales is £4.7m
- HRG UZ01Z variation is due to level of uncoded activity so cannot be analysed
- Most significant HRG variation shown in yellow, analysed in more detail overleaf



GA10K	Laparoscopic Cholecystectomy 19 years and over with CC Score 0								
					Med	Med Staff(Th)/F			Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	Prosth/FCE	CE
ВСИНВ	277	1.06	4,268.04	248.81	265.19	916.48	1,108.21	42.09	1,511.26
СТИНВ	360	1.14	4,857.72	513.31	280.73	1,671.14	1,206.80	86.46	980.69
CVUHB	98	1.30	5,114.37	874.47	138.76	1,200.86	1,340.12	13.31	1,126.28
HDUHB	104	1.13	9,299.18	340.06	2,146.95	2,201.03	2,666.27	0.00	1,782.26
SBUHB	50	1.04	6,272.91	287.78	253.09	1,763.44	2,154.58	12.04	1,566.25
Grand Total	889	1.12	5,301.46	437.76	477.01	1,451.34	1,414.82	50.27	1,288.76
Total excl HDUHB	785	1.12	4,771.82	450.70	255.76	1,352.01	1,249.03	56.93	1,223.38
AWA £/FCE			5,296.09						
Variance HD/FCE - AWA/FCI	E		4,003.08						
HD using AWA £			550,793.56						
Total Variance			416,320.83						

Commentary

- GA10K total variation to Rest of Wales is £416k
- Hdda cost per episode is £9,299 compared to ROW £4,771
- Relatively high medical staff costs, medical staff theatre costs, overhead "other" cost and other theatre costs



FF62D	Inguinal U	mbilical or	Femoral Hernia	Procedures	19 years an	d over with	CC Score 0		
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Med Staff/FCE	Med Staff(Th)/F CE	Other/FCE	Prosth/FCE	Theatres/F
ABUHB	548	1.17	2,781.54	1,040.47	304.85	217.06	813.44	4.23	296.60
ВСИНВ	240	1.02	3,707.81	225.78	238.86	776.07	963.97	56.63	1,336.12
СТИНВ	324	1.05	3,234.16	247.30	292.10	1,055.46	803.45	48.04	635.28
CVUHB	245	1.01	3,210.22	122.88	31.69	565.31	1,894.60	7.54	411.17
НДИНВ	91	1.03	6,401.65	242.99	1,220.28	1,493.22	1,872.10	0.00	1,454.54
SBUHB	90	1.03	2,769.98	128.85	65.58	288.45	1,895.35	1.95	332.40
Grand Total	1,538	1.08	3,303.24	499.55	288.51	616.07	1,133.00	21.78	619.02
Total excl HDUHB	1,447	1.08	3,108.38	515.68	229.92	560.91	1,086.52	23.15	566.47
AWA £/FCE			3,347.85						
Variance HD/FCE - AWA/FCE			3,053.80						
HD using AWA £			304,654.66						
Total Variance			277,895.60						

Commentary

- FF62D total variation to Rest of Wales is £278k
- Hdda cost per episode is £6,401 compared to ROW £3,108
- Relatively high medical staff costs, medical staff theatre costs, overhead "other" cost and other theatre costs



FE21Z	Diagnostic	Endoscop	oic Upper Gastro	ointestinal Tr	act Procedu	ures with Bi	opsy 19 year	s and over	
нв	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Med Staff/FCE	Med Staff(Th)/F CE	Other/FCE	Prosth/FCE	Theatres/F CE
ABUHB	1,034	1.00	699.66	69.53	61.20	0.51	210.69	0.01	9.50
ВСИНВ	752	1.00	1,156.34	106.81	122.13	118.01	403.40	4.32	16.87
СТИНВ	482	1.00	738.59	4.39	166.70	7.69	254.40	1.52	2.23
СVUНВ	423	1.00	759.64	34.72	6.83	5.56	337.95	0.59	5.15
HDUHB	362	1.00	1,488.75	16.42	63.46	433.31	521.82	-	5.22
SBUHB	389	1.00	1,315.59	15.84	58.43	122.25	498.23	7.14	16.85
Grand Total	3,442	1.00	964.86	52.62	82.53	87.08	339.77	2.04	9.94
AWA £/FCE			911.45						
Variance HD/FCE - AWA/FCE			577.30						
HD using AWA £			329,944.90						
Total Variance			208,982.12						

Commentary

- FE21Z total variation to Rest of Wales is £209K
- Hdda cost per episode is £911 compared to ROW £577
- Relatively high medical staff costs, medical staff theatre costs and overhead "other" cost



FE35Z	Diagnostic	Diagnostic Flexible Sigmoidoscopy 19 years and over							
						Med			
					Med	Staff(Th)/F			Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	Prosth/FCE	CE
ABUHB	795	1.00	522.99	64.51	68.06	0.61	168.11	0.00	4.57
ВСИНВ	860	1.00	955.78	95.01	125.32	97.52	377.77	4.70	3.47
СТИНВ	607	1.00	741.25	4.75	169.27	8.34	280.09	1.17	3.37
CVUHB	120	1.00	641.75	29.67	5.35	4.69	335.02	0.57	4.14
HDUHB	374	1.00	1,314.86	17.54	61.39	416.20	455.99	0.00	1.99
SBUHB	163	1.00	1,134.69	14.48	59.24	109.83	428.61	5.44	5.04
Grand Total	2,919	1.00	836.39	50.82	102.05	90.28	311.46	1.96	3.68
AWA £/FCE			764.77						
Variance HD/FCE - AWA/FCE	Ξ		550.09						
HD using AWA £			286,023.79						
Total Variance			205,733.25						

Commentary

- FE35Z total variation to Rest of Wales is £205k
- Hdda cost per episode is £764 compared to ROW £550
- Relatively high medical staff theatre costs, overhead "other" cost



Overall variation – general surgery non-elective HRGs

Health Board HDUHB

HRG	Sum of Var £
UZ01Z	276,155
FF37D	248,038
FF37C	157,473
Other (net)	3,080,092
Total	3,763,756

Commentary

- Non-elective General Surgery total cost variation to the Rest of Wales is £3.8m
- HRG UZ01Z variation is due to level of uncoded activity so cannot be analysed
- Most significant HRG variation shown in yellow, analysed in more detail overleaf



FF37D	Appendicectomy Procedures 19 years and over with CC Score 0								
					Med	Med Staff(Th)/F			Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	Prosth/FCE	CE
ABUHB	95	2.75	6,358.35	743.12	691.80	1,513.64	1,423.81	11.10	1,667.72
ВСИНВ	96	2.43	5,637.46	667.93	517.44	1,072.96	1,454.48	87.47	1,513.93
СТИНВ	70	2.71	7,316.40	547.10	806.58	1,686.96	2,044.49	60.23	1,918.23
CVUHB	39	2.69	5,455.73	673.08	205.84	1,454.73	1,369.86	11.81	1,364.28
HDUHB	61	3.05	10,924.53	877.46	1,343.82	2,398.04	3,341.80	-	2,604.31
SBUHB	57	2.44	6,121.91	673.95	302.42	1,892.72	1,497.93	7.17	1,310.22
Grand Total	418	2.67	6,903.13	696.66	667.69	1,616.72	1,819.77	34.78	1,733.97
Total excl HD	357	2.60	6,215.99	665.77	552.16	1,483.21	1,559.70	40.72	1,585.25
AWA £/FCE			6,858.33						
Variance HD/FCE - AWA/FCE			4,066.20						
HD using AWA £			418,357.91						
Total Variance			248,038.48						

Commentary

- FF37D total variation to Rest of Wales is £248k
- Hdda cost per episode is £10,924 compared to ROW £6,215
- Relatively high medical staff costs, medical staff theatre costs, overhead "other" cost and theatres costs



FF37C	Appendice	ctomy Proc	edures 19 years	and over wit	h CC Score	1-2			
						Med			
					Med	Staff(Th)/F			Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	Prosth/FCE	CE
ABUHB	65	3.20	6,416.60	807.84	778.99	1,514.94	1,441.22	15.82	1,500.10
ВСИНВ	82	3.61	6,818.23	928.72	638.18	1,222.41	1,782.25	91.84	1,777.14
СТИНВ	55	3.85	7,226.30	738.06	1,129.17	1,181.52	2,110.71	36.96	1,805.33
CVUHB	54	4.17	7,532.63	1,078.30	324.55	1,918.99	1,907.07	15.22	1,782.92
НДИНВ	55	3.16	10,303.70	813.25	1,139.81	2,480.06	2,869.48	-	2,645.34
SBUHB	40	3.35	6,673.55	904.31	353.68	1,882.30	1,688.73	7.45	1,328.57
Grand Total	351	3.56	7,447.37	878.60	739.12	1,649.61	1,949.47	33.37	1,816.07
Total excl HD	296	3.63	6,916.64	890.74	664.67	1,495.30	1,778.53	39.57	1,661.98
AWA £/FCE			7,440.56						
Variance HD/FCE - AWA/FCE			2,863.14						
HD using AWA £			409,230.60						
Total Variance			157,472.66						

Commentary

- FF37C total variation to Rest of Wales is £157k
- Hdda cost per episode is £10,303 compared to ROW £6,916
- Relatively high medical staff costs, medical staff theatre costs, overhead "other" cost and theatres costs
- Compared to previous slide
 (appendicectomy CC score 0) –
 shows there is little variation
 caused by comorbidity of patient or
 medical coding issue



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Commentary

- procedure so length of stay is less than 48 hours
- Hdda cost per episode is £3,434 compared to ROW £2,052
- Relatively high medical staff costs, overhead "other" cost and theatres costs, and additionally pathology costs



Overall variation – trauma and orthopaedics non-elective HRGs

Health Board HDUHB

HRG	Sum of Var £
HT12E	461,040
HE11H	455,922
HT13E	373,626
Other (net)	5,325,559
Total	6,616,146

Commentary

- Elective trauma and orthopaedics total cost variation to the rest of Wales is £6.6m
- Substantial number of HRG codes within this category, virtually all of which show Hdda cost is in excess of ROW per HRG
- Most significant HRG variation shown in yellow, analysed in more detail overleaf



Detailed variation – trauma and orthopaedics non-elective HRGs

HT12E	Very Major	Hip Proced	dures for Trauma	with CC Score	0-2				
					Med	Med Staff(Th)/F			Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	Prosth/FCE	CE
ABUHB	187	5.73	7,362.88	1,422.23	576.12	1,409.91	1,973.17	907.07	646.89
ВСИНВ	157	7 9.04	9,435.94	1,861.02	876.85	1,377.58	3,175.75	724.58	1,050.43
СТИНВ	152	2 12.53	15,371.14	4,509.77	1,497.24	2,080.63	4,384.51	660.39	1,770.04
CVUHB	74	4 6.88	9,330.60	1,864.63	283.35	2,537.27	2,073.33	706.82	1,538.21
HDUHB	134	4 10.72	14,528.89	2,841.64	1,375.48	2,010.61	4,732.96	826.34	2,206.97
SBUHB	73	3 10.74	11,159.19	2,996.74	1,055.58	1,214.99	3,103.43	883.01	1,374.97
Grand Total	77	7 9.17	11,128.28	2,549.74	972.10	1,727.24	3,279.55	786.68	1,370.49
Total excl HDUHB	643	8.84	10,419.60	2,488.91	888.03	1,668.18	2,976.67	778.42	1,196.16
			44 000 00						
AWA £/FCE			11,088.30						
Variance HD/FCE - A	AWA/FCE		3,440.59						
HD using AWA £			1,485,831.71						
Total Variance			461,039.55						

Commentary

- HT12E total variation to the rest of Wales is £461k
- Hdda cost per episode is £14,528 compared to ROW £10,419
- Relatively high overhead "other" cost and theatres costs, and all other cost categories above RPW average



Detailed variation – trauma and orthopaedics non-elective HRGs

HE11H	Hip Fractur	e without I	nterventions witl	h CC Score 0-3					
				/	Med	Med Staff(Th)/F		/= 0=	Theatres/FC
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	E	Other/FCE	Prosth/FCE	E
ABUHB	35	8 4.13	4,795.58	1,049.27	379.36	638.88	1,328.64	699.33	358.18
ВСИНВ	8	7 9.40	5,691.83	2,078.33	724.15	162.10	2,253.46	42.60	134.01
СТИНВ	11	5 13.10	9,832.42	4,009.91	1,401.16	400.26	3,274.81	43.09	315.65
СVUНВ	11	3 16.25	7,267.63	3,489.36	567.41	113.71	2,741.17	13.92	62.95
HDUHB	7	7 15.91	12,318.83	4,279.58	951.94	573.56	4,948.04	241.01	787.92
SBUHB	3	6 10.92	7,236.66	2,975.72	929.97	176.44	2,420.29	2.19	210.94
Grand Total	78	9.23	6,835.94	2,351.84	675.37	448.11	2,323.39	355.26	320.05
Total excl HDUHB	70	9 8.51	6,240.48	2,142.48	645.33	434.49	2,038.35	367.66	269.24
AWA £/FCE			6,397.76						
Variance HD/FCE - A	AWA/FCE		5,921.07						
HD using AWA £			492,627.39						
Total Variance			455,922.44						

Commentary

- HE11H total variation to the rest of Wales is £455k
- Hdda cost per episode is £12,318 compared to ROW £6,240
- Relatively high ward costs (through LOS variation), overhead "other" cost. Again all cost categories except prosthetic cost higher than ROW average



Overall variation – gastroenterology elective HRGs

Health Board	HDUHB
HRG	Sum of Var £
FE21Z	368,853
FE22Z	211,077
FE30Z	174,095
Other (net)	237,524
Total	991,548

Commentary

- Elective gastro total cost variation to the rest of Wales is £991k
- Most significant HRG variation shown in yellow, analysed in more detail overleaf



Detailed variation – trauma and orthopaedics non-elective HRGs

HT12E	Very Major	Hip Proced	dures for Trauma	with CC Score	0-2							
					Med Med Staff(Th)/F							
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	Prosth/FCE	Theatres/F CE			
ABUHB	18	5.73	7,362.88	1,422.23	576.12	1,409.91	1,973.17	907.07	646.89			
ВСИНВ	15	7 9.04	9,435.94	1,861.02	876.85	1,377.58	3,175.75	724.58	1,050.43			
СТИНВ	157	2 12.53	15,371.14	4,509.77	1,497.24	2,080.63	4,384.51	660.39	1,770.04			
CVUHB	74	4 6.88	9,330.60	1,864.63	283.35	2,537.27	2,073.33	706.82	1,538.21			
HDUHB	134	4 10.72	14,528.89	2,841.64	1,375.48	2,010.61	4,732.96	826.34	2,206.97			
SBUHB	73	3 10.74	11,159.19	2,996.74	1,055.58	1,214.99	3,103.43	883.01	1,374.97			
Grand Total	77	7 9.17	11,128.28	2,549.74	972.10	1,727.24	3,279.55	786.68	1,370.49			
Total excl HDUHB	643	8.84	10,419.60	2,488.91	888.03	1,668.18	2,976.67	778.42	1,196.16			
AWA £/FCE			11,088.30									
Variance HD/FCE - A	AWA/FCE		3,440.59									
HD using AWA £			1,485,831.71									
Total Variance			461,039.55									

Commentary

- HT12E total variation to the rest of Wales is £461k
- Hdda cost per episode is £14,528 compared to ROW £10,419
- Relatively high overhead "other" cost and theatres costs, and all other cost categories above RPW average



Overall variation – maternity non-elective HRGs

Health Board HDUHB

Row Labels	Sum of Var £
NZ51C	1,331,009
NZ51B	512,106
NZ31C	233,062
Other (net)	776,477
Total	2,852,654

Commentary

- Non elective maternity variation is £2.8m higher than RoW
- Most significant HRG variation shown in blue, analysed in more detail overleaf

20/27 29/36



Detailed variation – maternity non-elective HRGs

NZ51C	Emergenc	y Caesare	an Section with	n CC Score	0-1				
						Med			
					Med	Staff(Th)/F		Prosth/	Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	FCE	CE
ABUHB	479	3.73	7,791.30	2,502.42	568.41	1,464.17	1,858.57	9.07	1,099.06
BCUHB	562	4.13	6,740.27	2,290.10	564.44	701.13	2,017.00	0.16	883.20
СТИНВ	410	3.65	5,009.55	2,594.82	31.90	253.28	1,492.31	0.11	414.86
CVUHB	432	4.22	5,063.24	2,094.13	219.28	170.78	1,723.20	0.02	642.98
HDUHB	317	3.79	11,018.78	2,867.16	664.23	1,575.53	3,629.24	-	2,020.69
SBUHB	454	4.00	6,262.65	2,341.76	576.53	627.96	2,116.20	7.35	268.37
Grand Total	2,654	3.93	6,818.95	2,421.36	440.69	775.26	2,069.07	2.95	841.40
Total excl HDUHB	2,337	3.96	6,249.27	2,360.89	410.37	666.70	1,857.44	3.35	681.43
AWA £/FCE			6,820.01						
Variance HD/FCE - A	WA/FCE		4,198.77						
HD using AWA £			2,161,944.59						
Total Variance			1,331,009.06						

Commentary

- NZ51C total variation to the rest of Wales is £1.3m
- Hdda cost per episode is £11,018 compared to ROW £6,249
- Relatively high medical theatre costs, overhead "other" cost and theatres costs, and theatre other costs

21/27 30/36



Detailed variation – maternity non-elective HRGs

NZ51B	Emergency	y Caesare	an Section with	h CC Score	2-3				
					Med	Med Staff(Th)/F		Drocth/	Theatres/F
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	FCE	CE
ABUHB	52	4.73	10,611.71	4,016.75	712.74	1,553.65	2,536.84	10.80	1,304.32
ВСИНВ	280	4.81	7,694.64	2,658.39	690.38	753.54	2,295.56	0.08	943.75
СТИНВ	116	4.23	5,814.00	2,907.72	31.11	298.17	1,765.81	0.13	532.39
CVUHB	214	5.04	6,019.14	2,645.07	261.79	172.62	2,023.02	_	663.64
HDUHB	139	5.25	11,489.66	3,815.28	897.04	1,337.74	3,523.99	-	1,511.46
SBUHB	151	5.05	7,717.71	2,924.74	814.57	652.09	2,593.20	7.81	281.66
Grand Total	952	4.89	7,805.95	2,971.14	564.80	680.38	2,409.50	1.87	828.23
Total excl HDUHB	813	4.83	7,176.14	2,826.81	508.00	567.99	2,218.95	2.19	711.42
AWA £/FCE			7,805.45						
Variance HD/FCE - A	WA/FCE		3,684.21						
HD using AWA £			1,084,957.06						
Total Variance			512,105.51						

Commentary

- NZ51B total variation to the rest of Wales is £1.3m
- As previous but with higher CC score
- Hdda cost per episode is £11,489 compared to ROW £7,176
- Relatively high medical theatre costs, overhead "other" cost and theatres costs, and theatre other costs, as well as overhead costs

22/27 31/36

Mid level analysis – HRG comparison – maternity



Detailed variation – maternity elective HRGs

NZ31C Normal Delivery with Epidural or Induction with CC Score 0										
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Med Staff/FCE	Med Staff(Th)/FCE	E Other/FCE			
ВСИНВ	457	3.18	3,517.81	1,829.44	397.57	6.79	1,155.99			
СТИНВ	391	2.84	3,213.16	2,048.37	4.57	-	1,027.99			
CVUHB	284	3.07	2,755.00	1,613.23	114.98	3.92	938.67			
НДИНВ	231	3.13	4,576.57	2,297.88	370.42	9.25	1,776.78			
SBUHB	264	3.23	4,176.46	2,232.40	369.90	12.01	1,424.31			
Grand Total	1,627	3.08	3,568.64	1,976.21	245.45	5.85	1,218.97			
Total excl HDUHB	1,396	3.07	3,401.85	1,922.98	224.77	5.29	1,126.67			
AWA £/FCE			3,567.64							
Variance HD/FCE - AWA/FCE			1,008.93							
HD using AWA £			824,125.30							
Total Variance			233,061.81							

Commentary

- NZ31C total variation to the rest of Wales is £233k
- Hdda cost per episode is £4,576, compared to RoW £3,401
- Relatively high ward costs, and other overhead costs

23/27 32/36



Overall variation – maternity non-elective short stay HRGs

Health Board	HDUHB
Row Labels	Sum of Var £
NZ19B	912,649
NZ30C	607,690
NZ17B	242,607
Other (net)	1,173,191
Total	2,936,137

Commentary

- Non elective maternity short stay variation is £2.9m higher than RoW
- Most significant HRG variation shown in blue, analysed in more detail overleaf

24/27 33/36



Detailed variation – maternity non-elective short stay HRGs

NZ19B	Ante-Natal Major Disorders with CC Score 0-1									
	Med					Prosth/ Theatres/				
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Med Staff/FCE	Staff(Th)/I	- Other/FCE	FCE	FCE	
ABUHB	3,370	1.00	400.95	90.31	131.33	6.61	120.02	0.07	8.21	
ВСИНВ	2,474	1.00	485.55	150.62	120.04	0.06	171.60	0.02	0.07	
СТИНВ	2,212	1.00	438.42	249.48	0.13	-	178.25	0.01	-	
CVUHB	5,329	1.00	133.84	46.34	4.79	-	70.99	-	-	
HDUHB	1,567	1.00	995.21	508.51	94.74	0.77	346.75	-	0.30	
SBUHB	2,998	1.00	438.47	175.43	77.88	1.14	144.59	0.12	0.66	
Grand Total	17,950	1.00	396.07	155.91	63.92	1.51	143.65	0.04	1.69	
Total excl HDUHB	16,383	1.00	338.77	122.18	60.97	1.58	124.22	0.04	1.82	
AWA £/FCE			412.79							
Variance HD/FCE - AWA/FCE			582.42							
HD using AWA £			646,838.91							
Total Variance			912,649.04							

Commentary

- NZ19B total variation to the rest of Wales is £912k
- Hdda cost per episode is £995 compared to ROW £338

25/27 34/36



Detailed variation – maternity non-elective short stay HRGs

NZ30C	Normal Delivery with CC Score 0									
	Med									
					Med	Staff(Th)/I	F	Prosth/	Theatres/	
НВ	No Of FCE	LOS/FCE	Total £/FCE	Wards/FCE	Staff/FCE	CE	Other/FCE	FCE	FCE	
ABUHB	964.00	1.00	1,634.92	1,069.06	43.09	2.94	437.55	0.09	10.19	
ВСИНВ	766.00	1.00	1,074.95	548.38	119.60	0.51	366.83	0.42	0.76	
СТИНВ	774.00	1.00	851.85	540.12	1.08	-	276.86	0.08	-	
CVUHB	654.00	1.00	1,266.09	799.09	30.46	0.96	414.84	-	1.32	
HDUHB	460.00	1.00	2,703.77	1,136.78	63.92	6.17	1,442.76	-	9.83	
SBUHB	699.00	1.00	1,036.37	565.79	43.01	0.98	401.83	0.05	0.41	
Grand Total	4,317.00	1.00	1,356.26	766.66	49.43	1.71	494.08	0.12	3.73	
Total excl HDUHB	3,857.00	1.00	1,195.55	722.52	47.70	1.18	380.93	0.13	3.00	
AWA £/FCE			1,382.70							
Variance HD/FCE - AWA/FCE		1,321.07								
HD using AWA £			636,042.79							
Total Variance			607,690.35							

Commentary

- NZ30C total variation to the rest of Wales is £607k
- Hdda cost per episode is £2,703 compared to ROW £1,195
- Higher costs in wards, and other overhead costs

26/27 35/36



Extend into unscheduled care HRGs – general medicine

 Harder to evaluate productivity / cost for unscheduled care due to high variability of patient need, frailty impacts etc

27/27 36/36