

SCBN Benchmarking Report

All Scotland Report 2021-22

Version Draft 21/02/2022

Data as of March 2022



SCBN

SCOTTISH CLINICAL BIOCHEMISTRY NETWORK

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SCBN Benchmarking Report 2021-22 Version History

Version	Date	Comments/Changes
0.1	01/12/22	1 st draft.
0.2	19/12/22	Added 1 st draft of the 2022 question responses.
0.3	22/12/22	Changes based on IMS review and addition of the 2022 questions analysis.
0.4	18/01/23	Changes based on Data Group Review: Header changed, removal of non-consultant null values, updated workload values, various space for narrative, an additional highlight table for 19-20 to 21-22 comparison, grouping of Glasgow boards for workload questions 2022 analysis, and workforce leavers visualisation from DiSSG report.
0.5	07/02/23	Couple of workload changes and additional space for narrative.
0.6	21/02/23	Narrative added to 7 pages.

Data Summary:

There are some gaps in the data which should be kept in mind whilst interpreting this report:

- NHS Western Isles were unable to provide a data submission.
- Non-medical workforce data is missing from the NHS Ayrshire and Arran submission.
- Age and Years in Post data is missing from NHS Lothian and Greater Glasgow and Clyde, Clyde Biochemistry submissions.
- Workload breakdown into analysed onsite, referred within Scotland and referred out with Scotland is missing in NHS Grampian and Lothian submissions – report assumes all requests were analysed onsite.

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Glossary

Health Board Codes:

A&A	Ayrshire and Arran
BOR	Borders
D&G	Dumfries and Galloway
FIF	Fife
FV	Forth Valley
GGCC	Greater Glasgow and Clyde Clyde
GGCN	Greater Glasgow and Clyde North
GGCS	Greater Glasgow and Clyde South
GJE	Golden Jubilee
GRA	Grampian
HIGH	Highland
LAN	Lanarkshire
LTH	Lothian
ORK	Orkney
SHET	Shetland
TAY	Tayside
WI	Western Isles

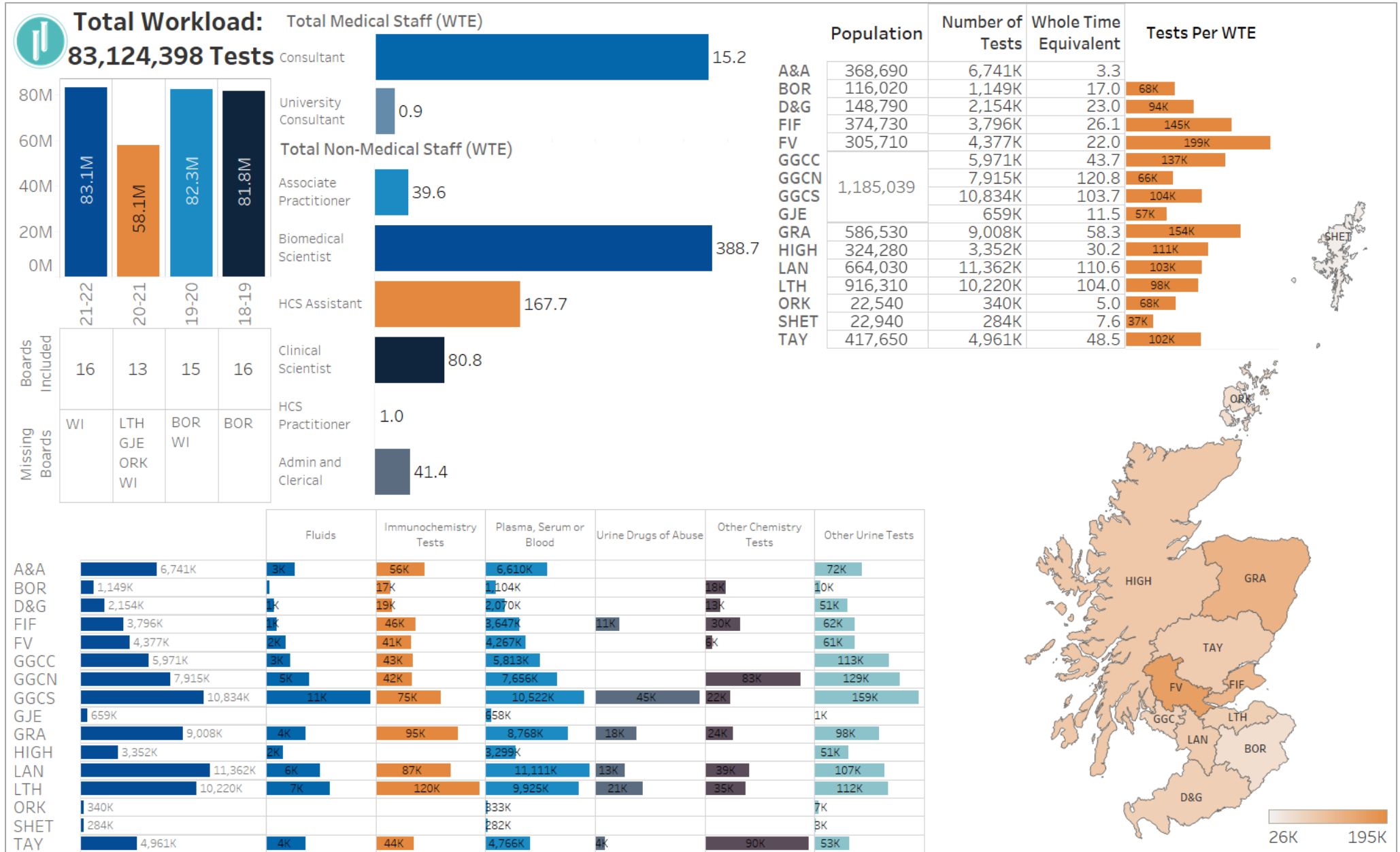
Job Title Acronyms:

AC	Admin and Clerical
AP	Associate Practitioner
BMS	Biomedical Scientist
CS	Clinical Scientist
HCS A.	HCS Assistant
HCS P.	HCS Practitioner
HCS	HCS Assistants and Practitioners

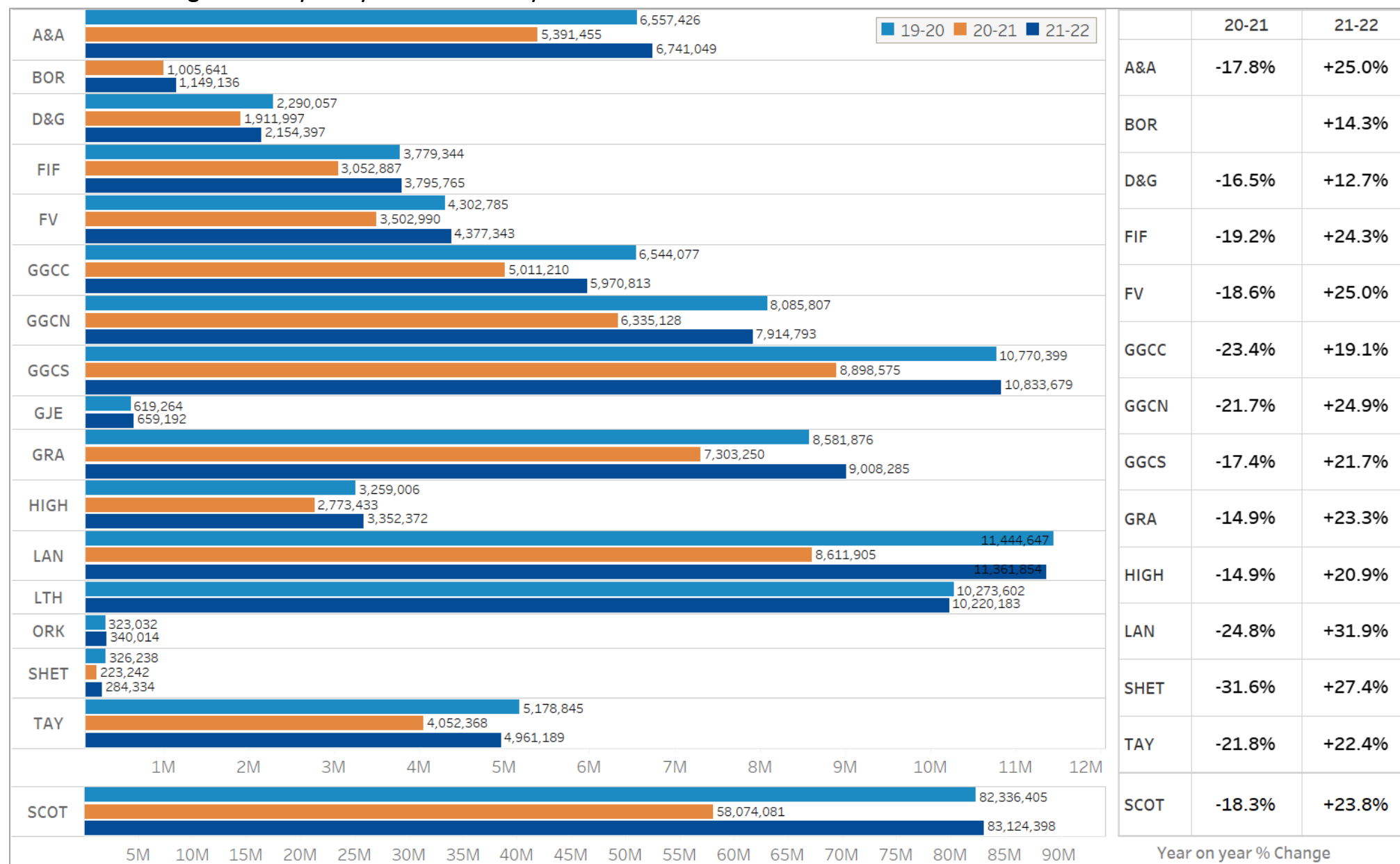
Other Acronyms:

WTE	Whole Time Equivalent
HC	Headcount
M	Million
FT	Full Time
PA	Programmed Activities
CMB	Consultant Medical Biochemist
POCT	Point of Care Test/s/ing
LIMS	Laboratory Information Management System
SCI	Scottish Care Information
NPEX	National Pathology Exchange
QEUH	Queen Elizabeth University Hospital
EPR	Electronic Patient Records
MSC	Managed Service Contract
QMS	Quality Management System
EG/ ETG	Ethylene Glycol

National Overview

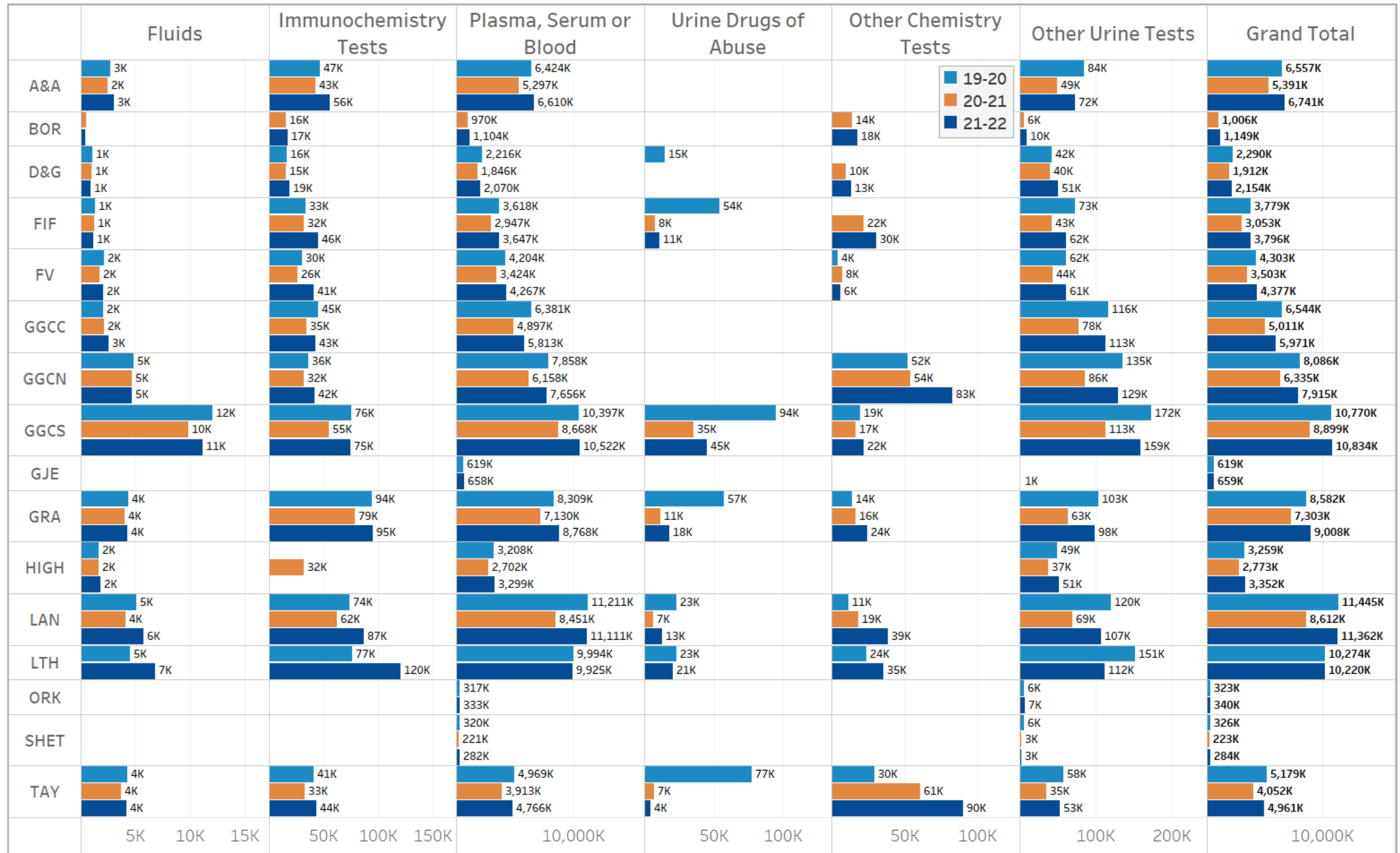


Workload – Change in locally analysed workload by health board

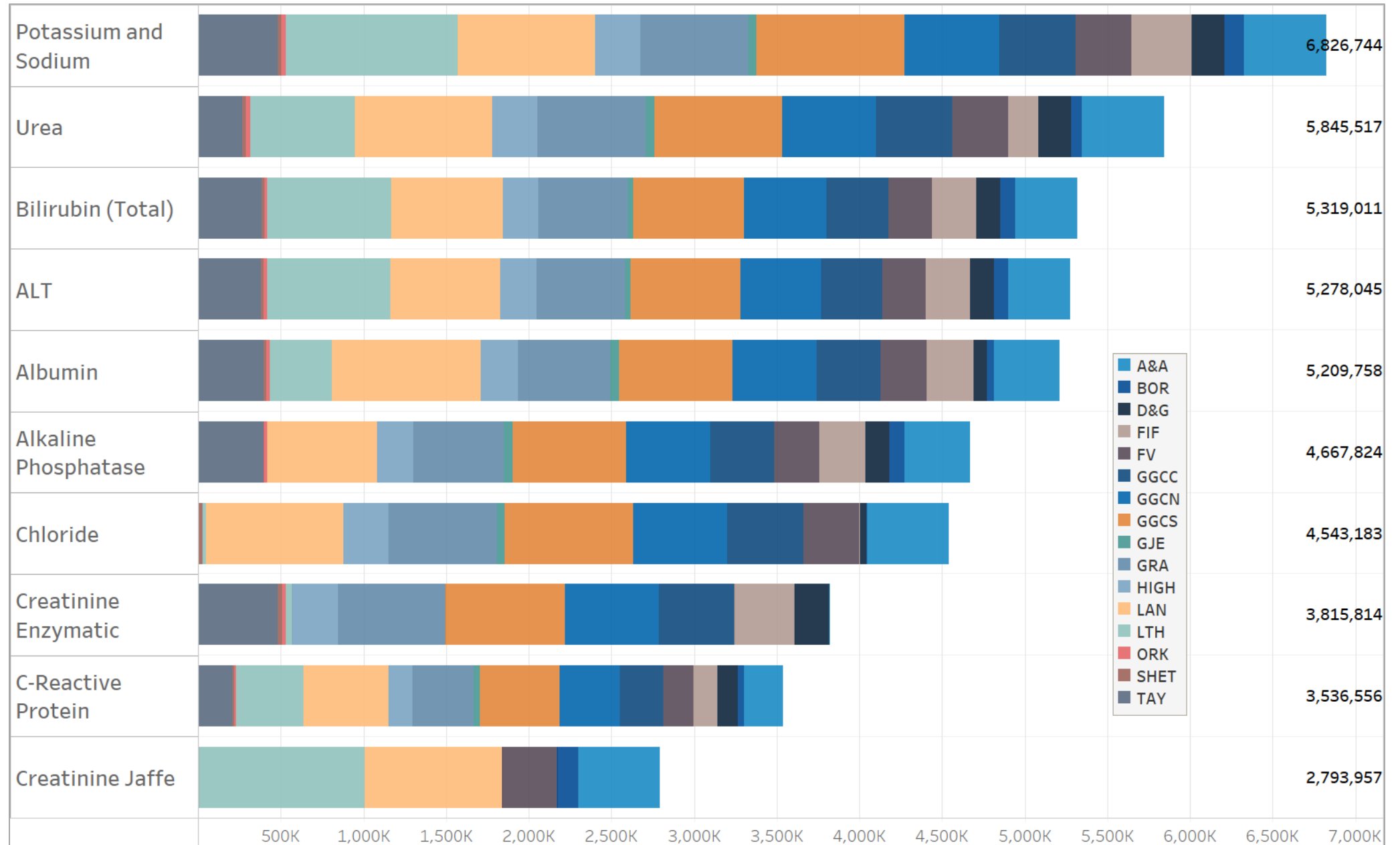


Note: Borders didn't provide a submission in 2019-20, and GJE, Lothian and Orkney didn't provide a submission in 2020-21.

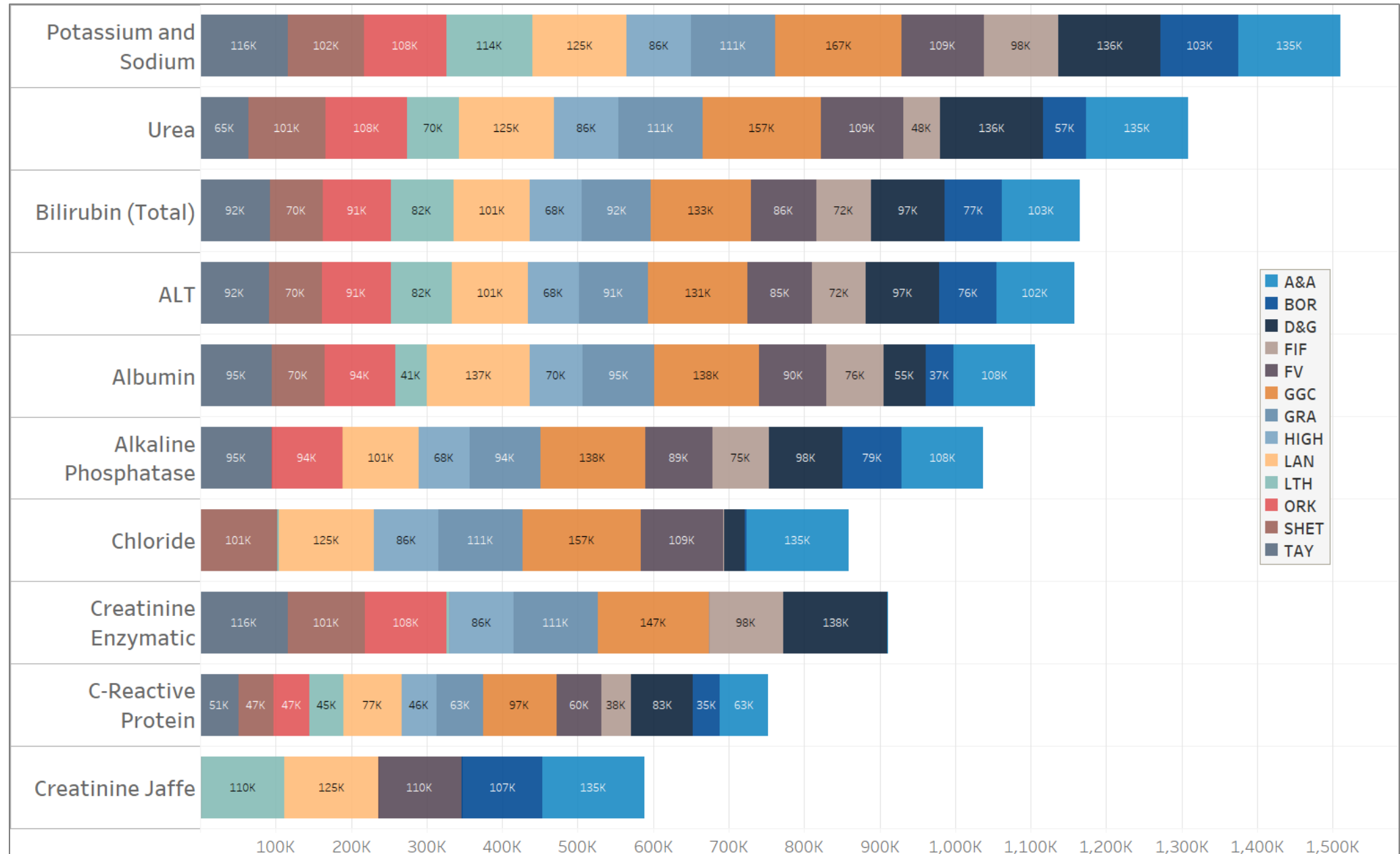
Workload - Change by Test Type in each board



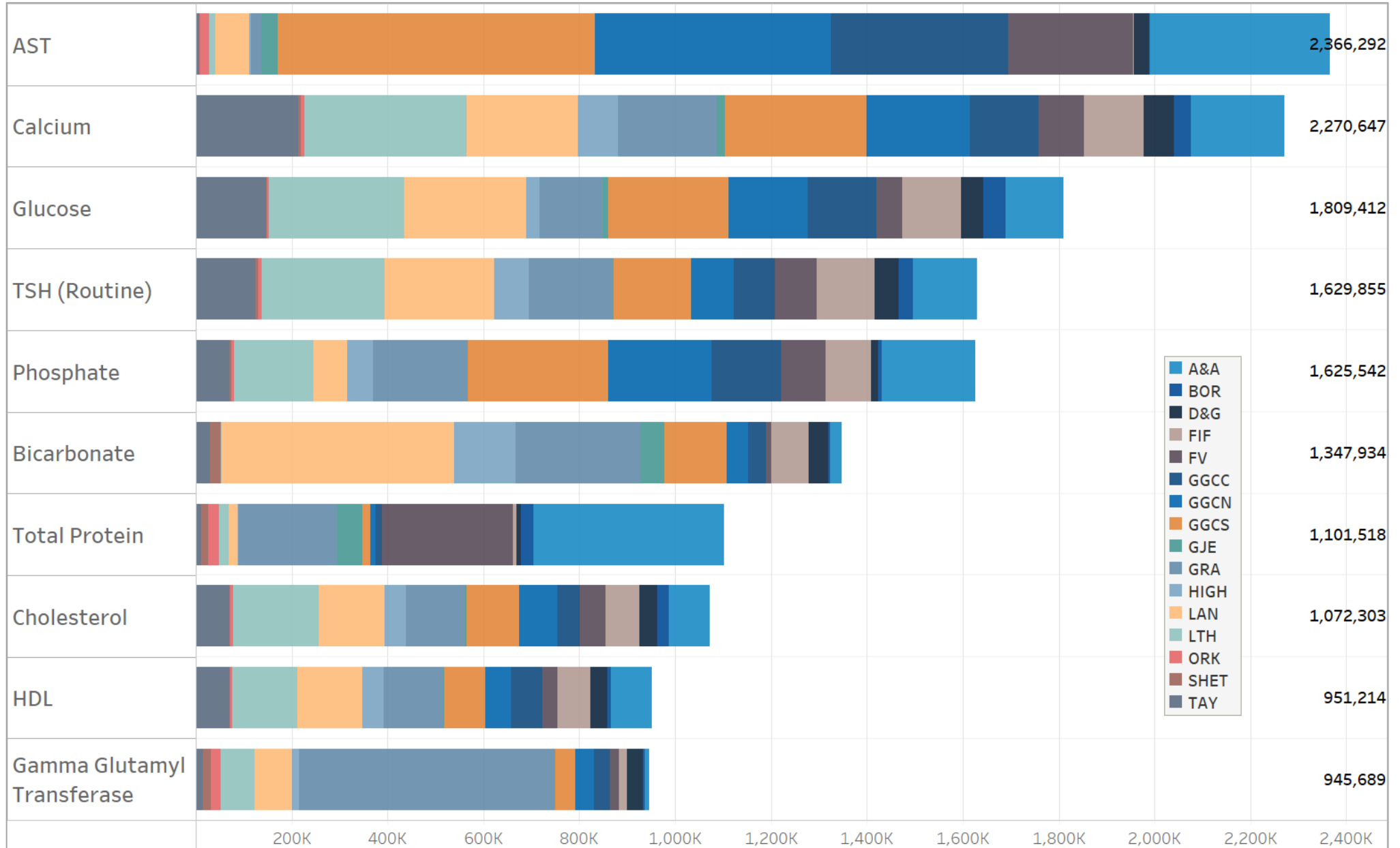
Workload – Top 1 - 10 tests by Count Nationally



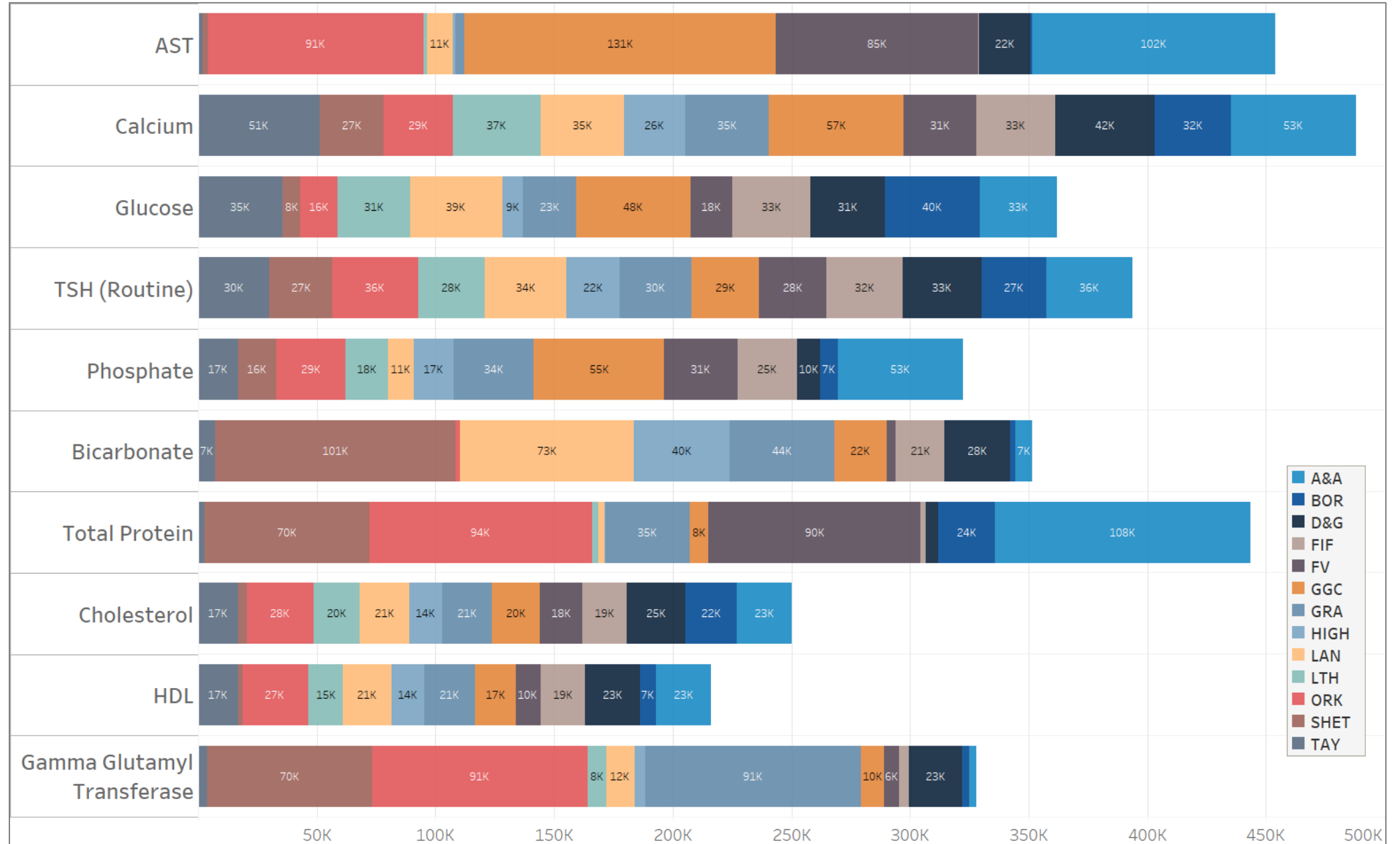
Workload – Top 1 - 10 tests adjusted to tests per 100K population in health board:



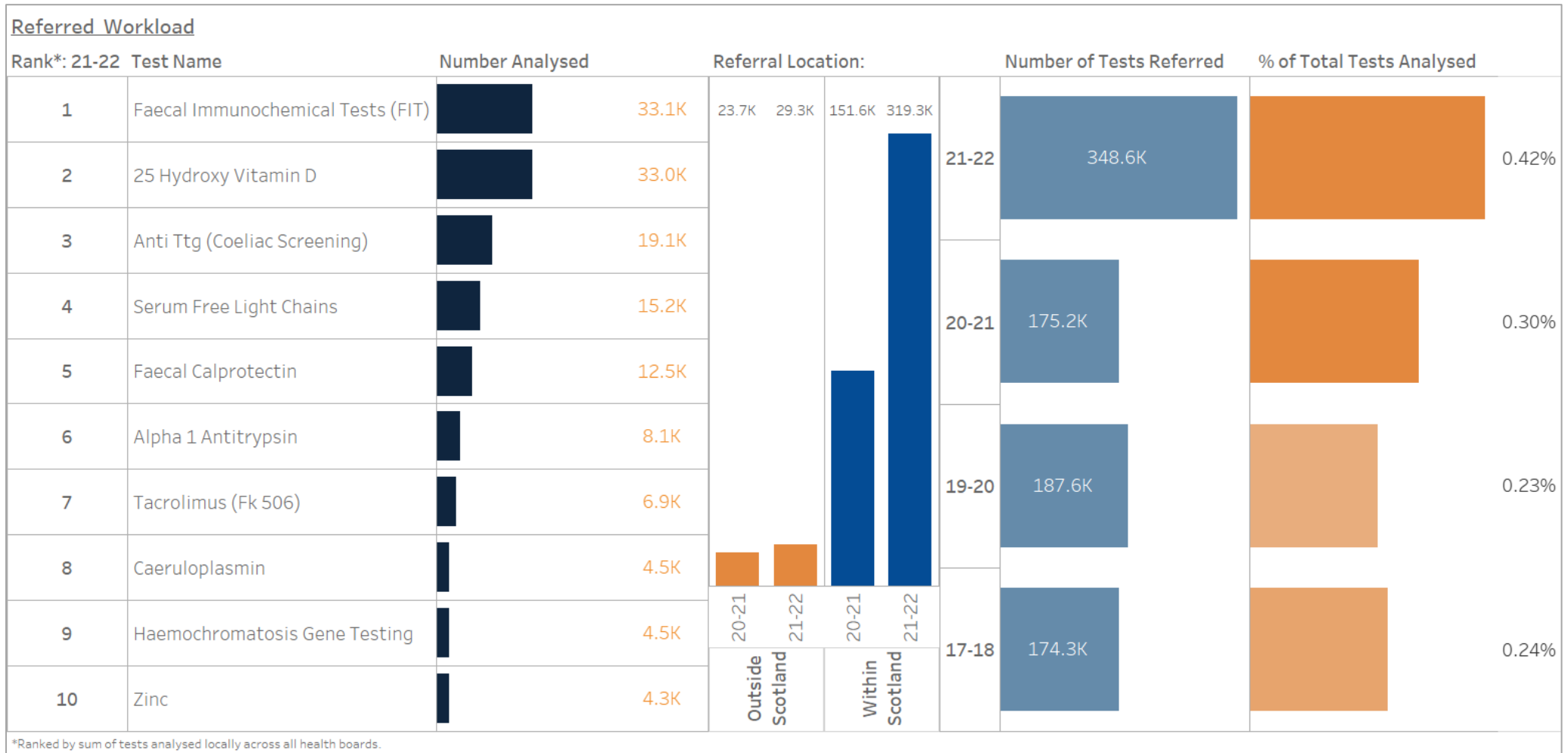
Workload – Top 11 - 20 tests by Count Nationally



Workload – Top 11 - 20 tests adjusted to tests per 100k population in health board:



Workload – Referral and ranking of most frequent tests



Workload referred within Scotland saw a marked increase in 21-22, predominantly driven by increased number of tests supporting GI pathways (FIT, Faecal Calprotectin and Coeliac screening). Workload referred outside of Scotland did not see increases of a similar magnitude, suggesting that efforts to retain work within Scotland have been successful.

Workload – Highlight Table: % Change of Selected Tests (1/4)

-30% +30%		A&A	BOR	D&G	FIF	FV	GGCC	GGCN	GGCS	GJE	GRA	HIGH	LAN	LTH	ORK	SHET	TAY	SCOT	
20-21	Alkaline Phosphatase	321.5K	79.5K	121.0K	228.2K	216.2K	322.7K	405.6K	563.8K		441.8K	157.2K	527.5K			0.0K	329.9K	3,714.9K	
	C-Reactive Protein	200.0K	36.4K	106.3K	118.2K	153.6K	232.5K	311.7K	416.3K		314.4K	127.7K	427.8K			10.1K	178.5K	2,633.4K	
	Faecal Calprotectin		1.4K			4.2K			18.9K			3.0K		3.6K					31.1K
	Faecal Immunochemical Tests (FIT)		2.6K						35.0K			13.3K		15.0K				41.8K	107.7K
	Gamma Glutamyl Transferase	7.4K	2.9K	28.3K	12.6K	15.4K	28.7K	31.2K	33.2K		428.6K	13.1K	62.9K			15.9K	12.6K	692.8K	
21-22	Alkaline Phosphatase	396.4K +23%	90.9K +14%	144.7K +20%	279.2K +22%	272.7K +26%	386.1K +20%	508.0K +25%	687.9K +22%	51.2K	548.7K +24%	218.0K +39%	668.0K +27%	0.0K	21.0K	0.0K	395.0K +20%	4,667.8K +26%	
	C-Reactive Protein	233.6K +17%	40.6K +11%	122.4K +15%	143.8K +22%	183.6K +19%	259.3K +12%	366.7K +18%	479.1K +15%	40.1K	368.0K +17%	148.4K +16%	510.2K +19%	408.9K	10.6K	10.7K +6%	210.4K +18%	3,536.6K +34%	
	Faecal Calprotectin	0.0K	2.0K +40%	0.0K	0.0K	6.2K +45%	0.0K	30.7K +62%	0.0K	0.0K	4.1K +35%	0.0K	6.7K +88%	21.5K	0.0K	0.0K	0.0K	71.1K +128%	
	Faecal Immunochemical Tests (FIT)	0.0K	3.2K +20%	0.0K	0.0K	0.0K	0.0K	51.7K +48%	0.0K	0.0K	20.2K +52%	0.0K	28.0K +87%	11.3K	0.0K	0.0K	59.6K +43%	174.0K +62%	
	Gamma Glutamyl Transferase	9.8K +34%	3.6K +24%	33.4K +18%	15.3K +21%	19.0K +24%	33.8K +18%	38.6K +24%	44.0K +33%	0.0K	532.8K +24%	14.3K +9%	77.9K +24%	71.2K	20.4K	15.9K +0%	15.5K +23%	945.7K +37%	

There have been significant increases in workload for Faecal Calprotectin and Faecal Immunochemical Tests (FIT), as Scottish Laboratories support the remobilisation of GI pathways and adopted the 2020 Scottish Government guidance for use of FIT testing. The increase of this testing has been required to aid triage of patients with lower abdominal symptoms and manage colonoscopy demand.

Workload – Highlight Table: % Change of Selected Tests (2/4)

-30%  +30%		A&A	BOR	D&G	FIF	FV	GGCC	GGCN	GGCS	GJE	GRA	HIGH	LAN	LTH	ORK	SHET	TAY	SCOT
20-21	Glucose	95.6K	38.4K	34.4K	97.9K	49.8K	113.1K	130.2K	197.8K		96.3K	25.8K	202.6K			2.0K	116.3K	1,200.3K
	HbA1c	61.8K	9.4K	23.2K	29.4K	55.0K	51.2K	45.0K	65.3K		54.9K	52.1K	102.9K			5.4K	30.8K	586.4K
	HDL	58.0K	5.2K	22.5K	49.7K	20.0K	41.5K	30.3K	58.2K		81.3K	31.4K	87.1K			1.1K	53.0K	539.2K
	T4 (Free)	98.6K	6.0K	6.4K	17.3K	13.2K	85.8K	73.7K	115.0K		130.6K	19.7K	140.6K			1.1K	1.5K	709.4K
	TSH (Routine)	98.6K	25.3K	37.5K	90.8K	62.9K	85.8K	73.7K	115.0K		130.7K	56.6K	155.5K			6.0K	98.7K	1,037.1K
21-22	Glucose	119.7K +25%	46.3K +20%	46.6K +35%	123.7K +26%	53.7K +8%	142.7K +26%	165.7K +27%	250.9K +27%	10.5K	132.4K +37%	27.6K +7%	255.8K +26%	281.2K	3.5K	1.8K -10%	147.5K +27%	1,809.4K +51%
	HbA1c	90.9K +47%	14.0K +49%	33.1K +43%	43.9K +49%	88.4K +61%	73.1K +43%	65.9K +47%	96.0K +47%	2.7K	81.9K +49%	71.9K +38%	160.0K +55%	147.0K	7.9K	5.9K +9%	40.3K +31%	1,022.7K +74%
	HDL	85.2K +47%	7.8K +49%	34.7K +54%	69.9K +41%	31.3K +57%	65.3K +57%	52.6K +74%	86.7K +49%	1.2K	123.9K +52%	44.5K +42%	136.3K +56%	135.1K	6.1K	0.5K -58%	70.2K +32%	951.2K +76%
	T4 (Free)	133.1K +35%	6.8K +14%	7.8K +23%	22.7K +32%	16.2K +23%	67.3K -22%	69.9K -5%	161.1K +40%	2.2K	175.4K +34%	22.7K +15%	207.8K +48%	0.0K	2.6K	1.1K +1%	21.4K +1350%	918.3K +29%
	TSH (Routine)	133.1K +35%	31.4K +24%	49.4K +32%	120.7K +33%	86.9K +38%	86.7K +1%	88.0K +19%	161.1K +40%	2.2K	175.7K +34%	72.0K +27%	228.0K +47%	256.3K	8.1K	6.1K +3%	124.0K +26%	1,629.9K +57%

There have been almost universal increases in tests for diagnosis and monitoring of common, chronic conditions across Scotland from the preceding pandemic year. This is in line with remobilisation of routine services in primary care.

Workload – Highlight Table: % Change of Selected Tests (3/4)

				A&A	BOR	D&G	FIF	FV	GGCC	GGCN	GGCS	GJE	GRA	HIGH	LAN	LTH	ORK	SHET	TAY	SCOT
20-21	BNP/NTproBNP	0.0K	0.1K	2.2K	0.4K	2.4K	3.6K	4.1K	7.6K		4.9K	1.9K	1.4K				0.9K	1.3K	30.8K	
	Cardiac Troponin	18.7K	5.0K	7.6K	10.8K	12.8K	18.4K	28.6K	39.2K		21.9K	9.5K	34.7K				0.9K	15.6K	223.7K	
	Opiates	0.0K	0.0K	0.0K	1.4K	0.0K	0.0K	0.0K	6.2K		1.9K	0.0K	1.2K				0.0K	0.6K	11.3K	
	Procalcitonin	0.5K	0.0K	0.0K	1.4K	0.0K	0.0K	6.6K	0.0K		0.6K	0.4K	0.0K				0.0K	5.9K	15.3K	
21-22	BNP/NTproBNP	0.0K	0.5K +353%	3.1K +42%	0.7K +54%	4.1K +71%	6.6K +82%	7.6K +82%	11.4K +51%	3.1K	7.9K +64%	2.9K +54%	2.5K +75%	2.6K	0.7K	1.0K +21%	2.7K +116%	57.5K +87%		
	Cardiac Troponin	21.6K +15%	4.8K -3%	9.1K +19%	12.7K +18%	14.6K +14%	20.8K +13%	33.8K +18%	39.0K +0%	3.2K	25.1K +15%	11.3K +18%	40.5K +17%	44.6K	0.9K	1.1K +26%	17.4K +11%	300.4K +34%		
	Opiates	0.0K	0.0K	0.0K	1.9K +36%	0.0K	0.0K -100%	0.0K	8.0K +30%	0.0K	3.0K +59%	0.0K	2.4K +92%	3.7K	0.0K	0.0K	0.0K -100%	19.0K +67%		
	Procalcitonin	0.5K -14%	0.0K	0.0K	1.5K +6%	0.0K	0.0K -100%	4.9K -25%	0.0K	0.0K	1.0K +80%	0.5K +39%	1.5K	0.6K	0.0K	0.0K	8.0K +35%	18.5K +21%		

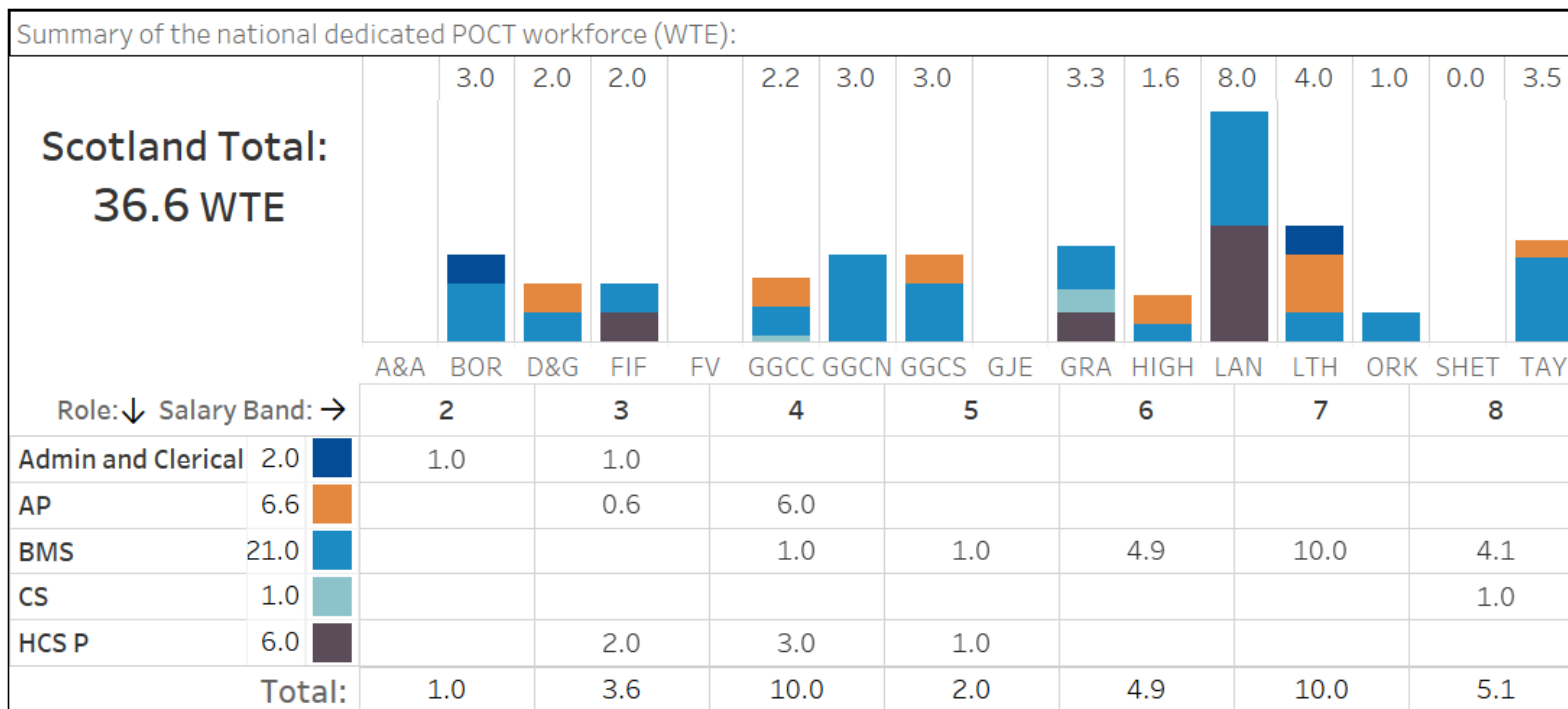
As A&E services saw attendances rise from the previous pandemic year, corresponding increases were seen across most of Scotland in numbers of Cardiac Troponin requests. Natriuretic peptide requests to investigate heart failure increased across Scotland, likely attributable from delayed investigation of patients with potential heart failure from pandemic year and in some areas, to increased availability to services to support remobilisation of echocardiogram services. In centres offering Toxicology services, there were increases in workload from the previous pandemic year as Addiction services remobilised. Finally, Procalcitonin workload showed variable changes across Scotland. Some services saw marked drops as services that had implemented or scaled up for the management of COVID-19 patients either scaled back or removed, whilst other services continued to see increases in requesting numbers from the pandemic year.

Workload – Highlight Table: % Change of Selected Tests (4/4)

				A&A	BOR	D&G	FIF	FV	GGCC	GGCN	GGCS	GJE	GRA	HIGH	LAN	LTH	ORK	SHET	TAY	SCOT
19-20	BNP/NTproBNP					2.2K	0.3K	2.0K	3.4K	3.5K	6.2K	2.8K	4.3K	0.8K	1.2K	1.7K	0.6K	1.0K	1.0K	31.0K
	Cholesterol	95.0K		36.2K	79.0K	58.9K	80.8K	85.6K	114.4K	2.3K	145.6K	45.0K	158.5K	179.3K	5.8K	5.2K	99.3K		99.3K	1,190.9K
	Faecal Calprotectin							4.3K	0.0K	24.8K			3.6K	0.0K	4.0K	21.2K			0.0K	57.9K
	Faecal Immunochemical..							0.0K	0.0K	26.9K			10.4K	0.0K	7.5K	0.0K			29.7K	74.5K
	HbA1c	78.3K		27.3K	39.8K	70.2K	64.2K	59.5K	80.3K	1.8K	79.2K	66.7K	140.9K	122.1K	6.4K	6.4K	44.7K		44.7K	887.8K
	Opiates			3.5K	8.3K	0.0K	0.0K	0.0K	17.2K	0.0K	9.5K	0.0K	4.3K	3.6K					10.5K	56.8K
	Procalcitonin				0.7K	0.0K	0.0K	0.0K					0.0K	0.0K		0.0K			4.6K	5.3K
21-22	BNP/NTproBNP	0.0K	0.5K	3.1K +43%	0.7K +126%	4.1K +111%	6.6K +93%	7.6K +117%	11.4K +84%	3.1K +11%	7.9K +85%	2.9K +267%	2.5K +104%	2.6K +47%	0.7K +30%	1.0K +4%	2.7K +160%		2.7K +160%	57.5K +85%
	Cholesterol	85.2K -10%	25.0K	36.9K +2%	69.8K -12%	54.8K -7%	46.1K -43%	79.2K -7%	110.3K -4%	2.8K +23%	124.0K -15%	44.5K -1%	137.8K -13%	178.5K +0%	6.2K +7%	0.9K -83%	70.2K -29%		70.2K -29%	1,072.3K -10%
	Faecal Calprotectin	0.0K	2.0K	0.0K	0.0K	6.2K +44%	0.0K	30.7K +24%	0.0K	0.0K	4.1K +11%	0.0K	6.7K +69%	21.5K +2%	0.0K	0.0K	0.0K		0.0K	71.1K +23%
	Faecal Immunochemical..	0.0K	3.2K	0.0K	0.0K	0.0K	0.0K	51.7K +93%	0.0K	0.0K	20.2K +94%	0.0K	28.0K +272%	11.3K	0.0K	0.0K	59.6K +101%		59.6K +101%	174.0K +134%
	HbA1c	90.9K +16%	14.0K	33.1K +21%	43.9K +10%	88.4K +26%	73.1K +14%	65.9K +11%	96.0K +20%	2.7K +49%	81.9K +3%	71.9K +8%	160.0K +14%	147.0K +20%	7.9K +25%	5.9K -9%	40.3K -10%		40.3K -10%	1,022.7K +15%
	Opiates	0.0K	0.0K	0.0K -100%	1.9K -77%	0.0K	0.0K	0.0K	8.0K -53%	0.0K	3.0K -69%	0.0K	2.4K -45%	3.7K +3%	0.0K	0.0K	0.0K -100%		0.0K -100%	19.0K -67%
	Procalcitonin	0.5K	0.0K	0.0K	1.5K +115%	0.0K	0.0K	4.9K	0.0K	0.0K	1.0K	+26.4K% 0.5K	1.5K	0.6K	0.0K	0.0K	8.0K +75%		8.0K +75%	18.5K +253%

This data set compares workload in 21-22 to 19-20 to assess how workload post-pandemic compares to pre-pandemic. Across most of Scotland, there have been increases in HbA1c workload as Diabetic services remobilise post-pandemic. Whilst cholesterol and urine toxicology workload have increased in 21-22 compared with 20-21, they have not reached the levels seen in 19-20. This suggests that services such as Keep Well screening and Addiction Services have not yet fully remobilised. Finally, the increases seen in Faecal Calprotectin and FIT requests are marked compared with 19-20, suggesting their increased adoption in GI patient pathways and adoption of the 2020 Scottish Government guidance for use of FIT testing.

Workload Questions – Point of Care Testing

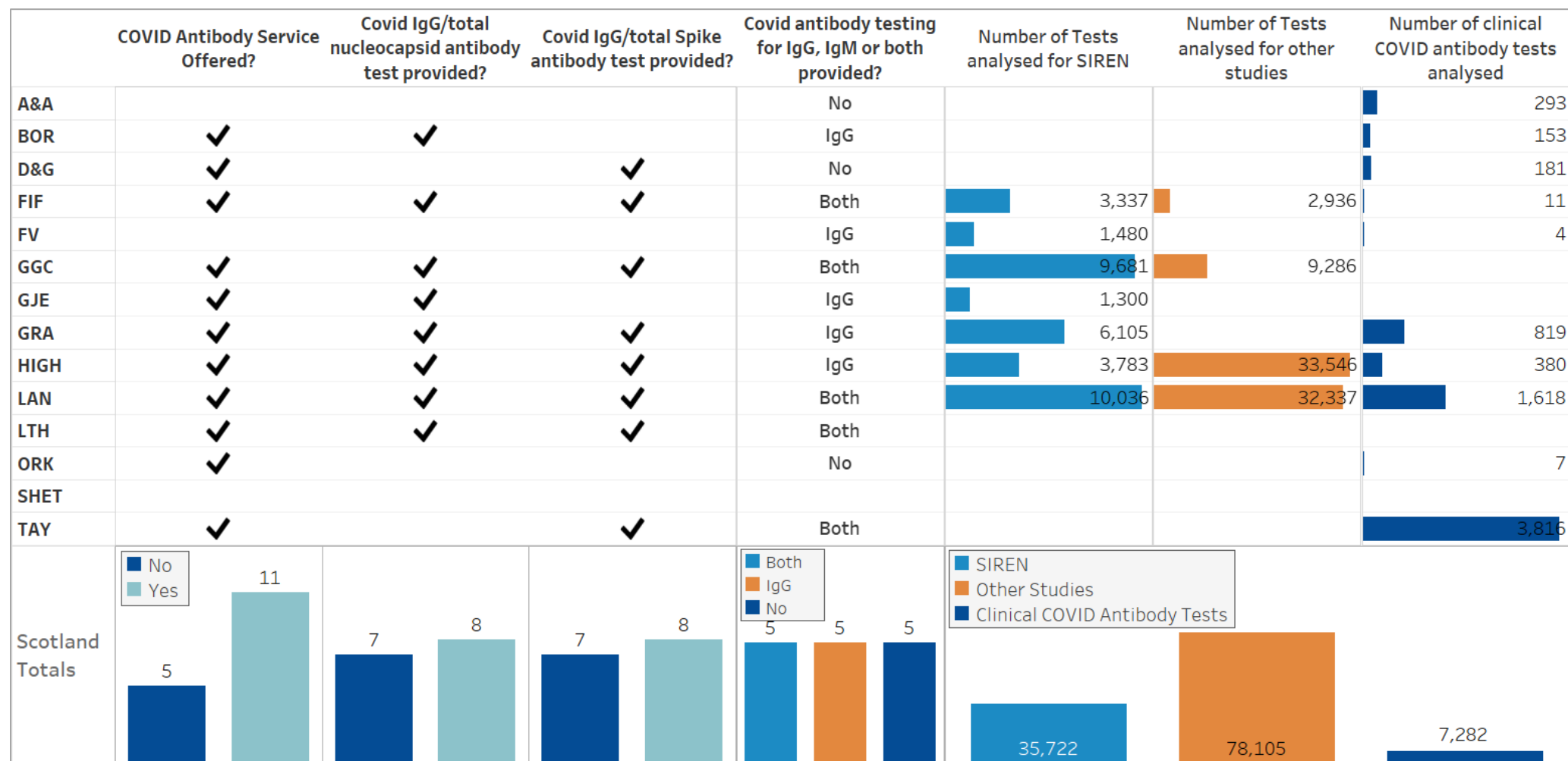


There has been an increase in demands placed on POCT services, as Clinical Services look to increase both the ranges of repertoire and locations where POCT is available. This summary of workforce across Scottish laboratories that are dedicated to POCT highlights that this demand is being dealt with by relatively small teams and that there is variation in the services that are being supported.

Which boards can support the following POCT tests?

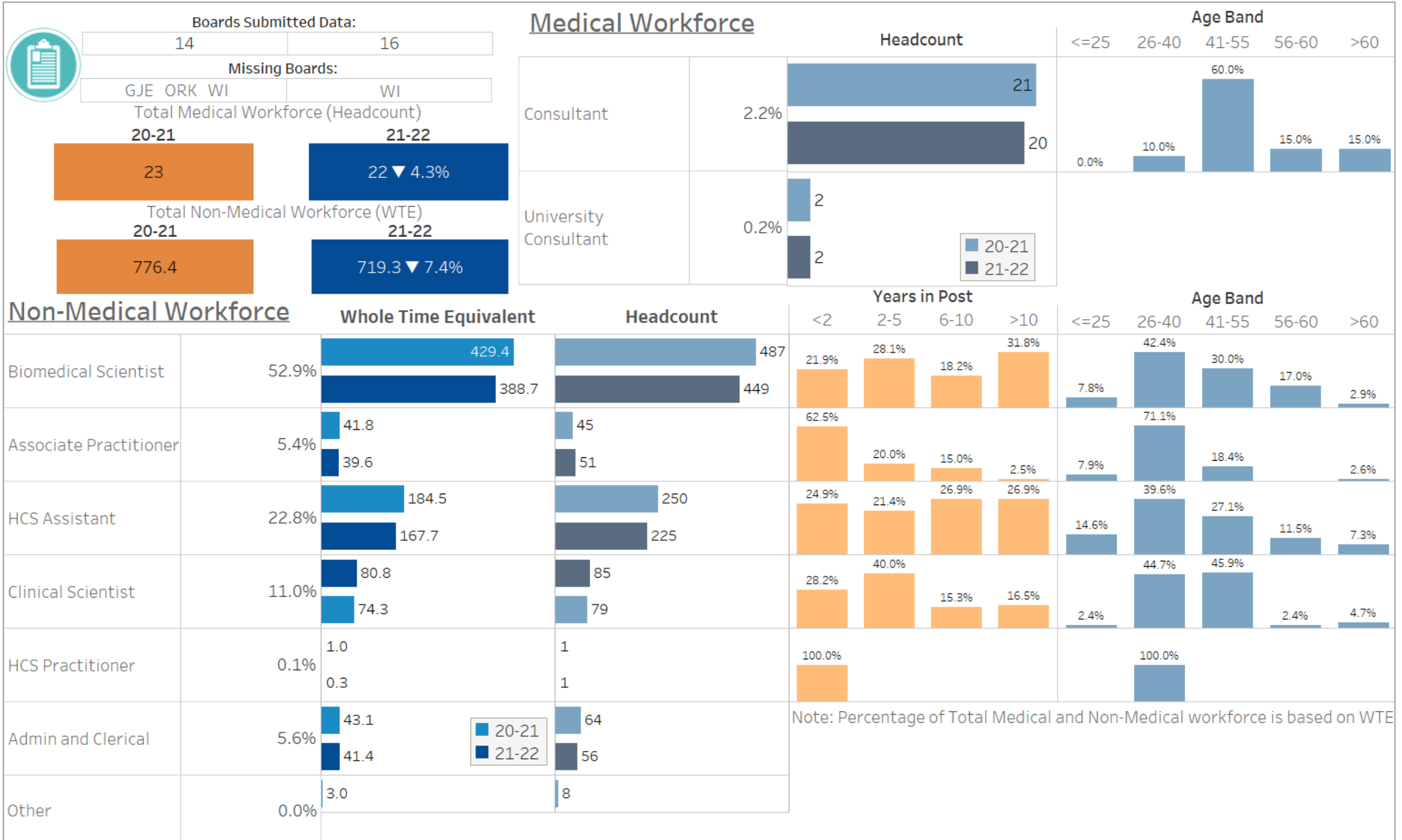
	A&A	BOR	D&G	FIF	FV	GGCC	GGCN	GGCS	GJE	GRA	HIGH	LAN	LTH	ORK	SHET	TAY	SCOT
Blood Gas	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14
Blood Glucose	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	14
POCT HbA1C			✓	✓		✓		✓		✓	✓		✓		✓	✓	9
POCT natriuretic peptide	✓																1

Workload Questions – COVID Antibodies:

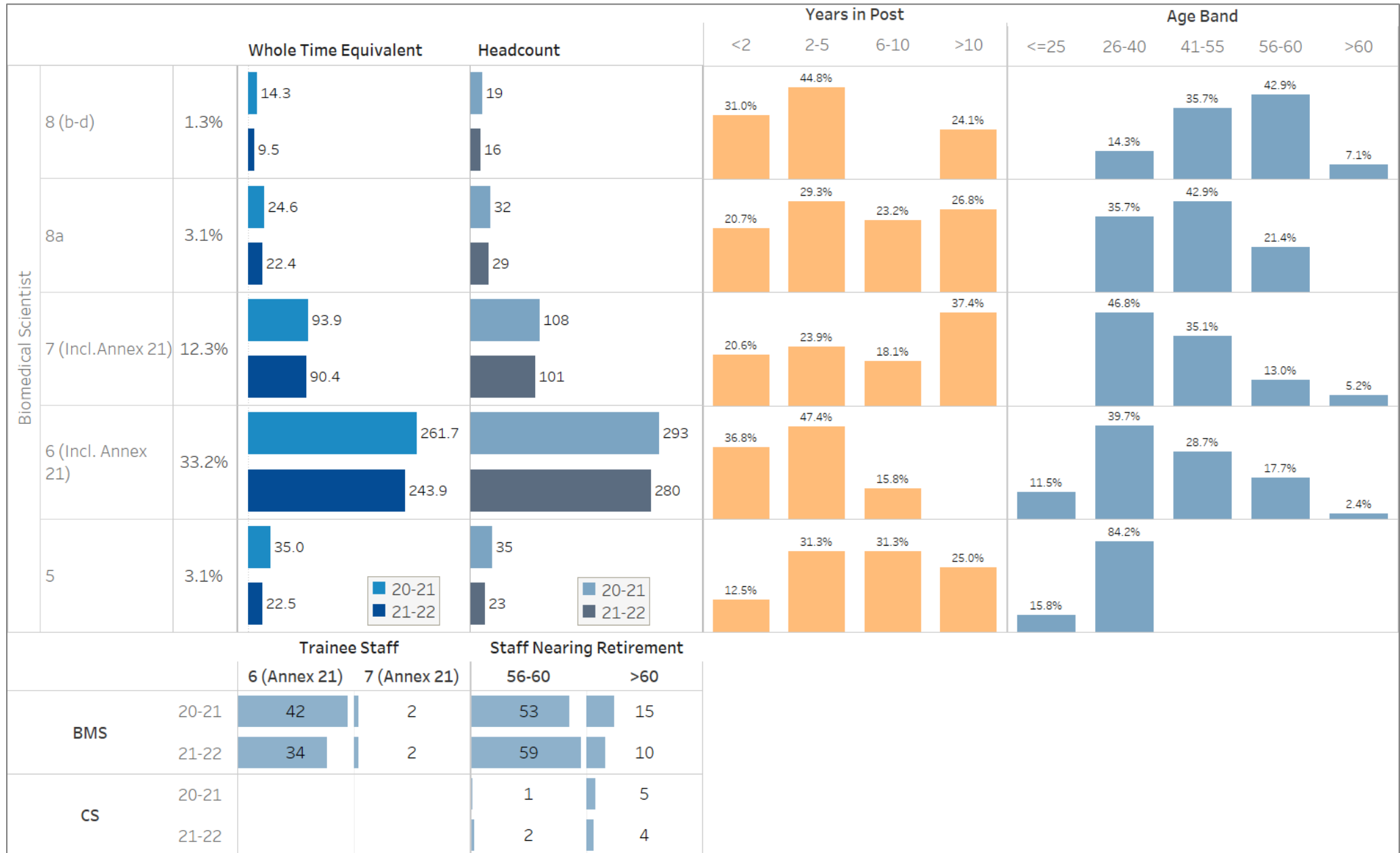


In response to the COVID-19 pandemic, Biochemistry services rapidly implemented SARS CoV2 antibody testing to help guide the prescription of antibody therapies, evaluate immune responses to COVID-19 and provide insight into reinfection rates. Many services are offering both nucleocapsid and spike protein antibody testing to allow differentiation of immune response from prior COVID-19 infection to vaccine response.

Workforce - National Overview



Workforce - National Biomedical Scientists Overview



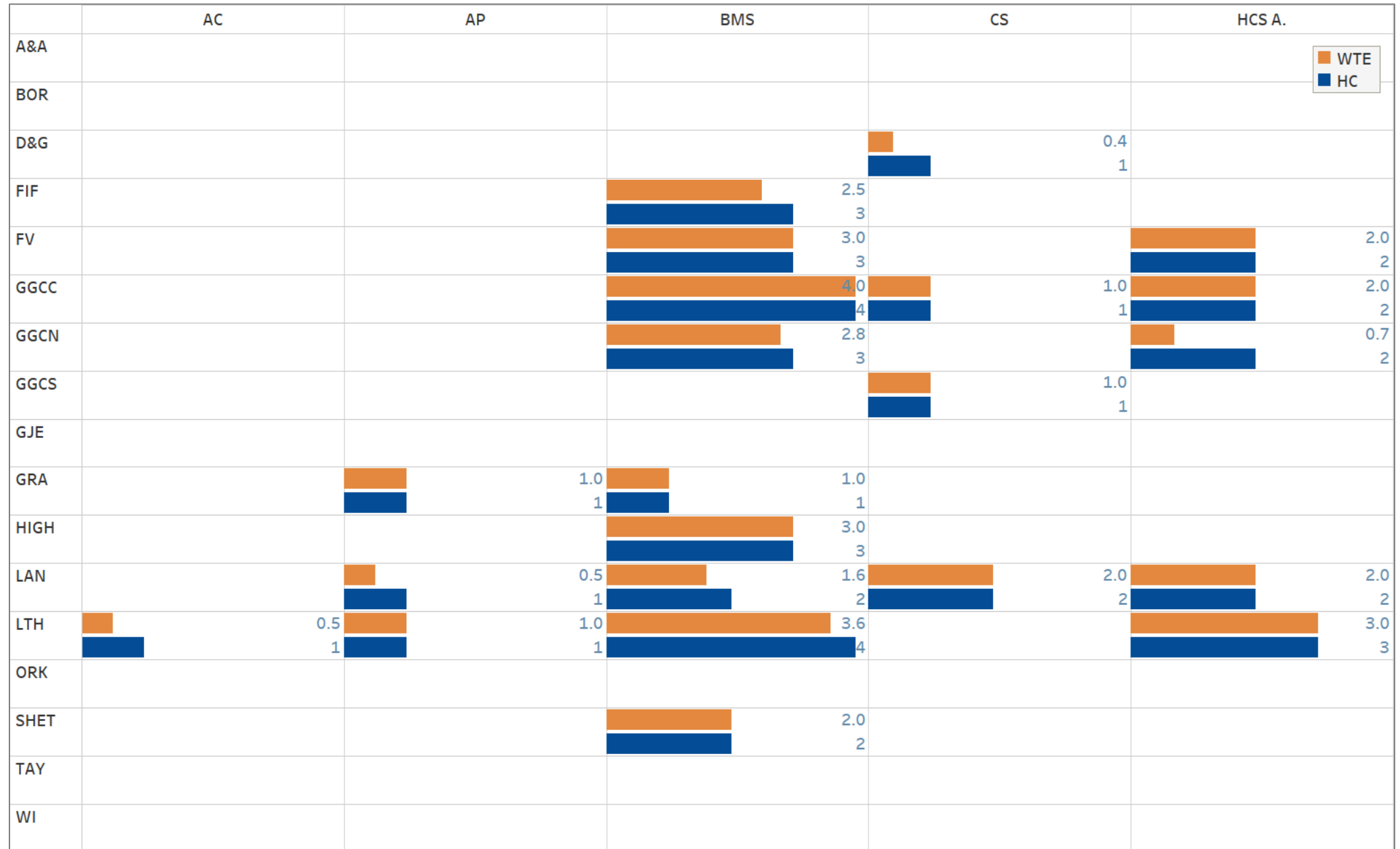
Workforce – Number of each Non-Medical Role by Board

	AC	AP	BMS	CS	HCS A.	HCS P.
A&A				2.0		
				2		
BOR	0.7		11.5		4.0	
	2		14		4	
D&G	2.2	2.3	11.9	1.0	5.0	
	3	5	14	1	12	
FIF	1.3		17.4	3.0	4.5	
	4		19	3	5	
FV			15.6	1.8	4.6	
			17	2	3	
GGCC	1.7		29.3	3.0	8.0	
	2	3	40	3	9	
GGCN	9.9	6.7	53.2	21.8	26.7	
	13	10	57	22	37	
GGCS	3.7	10.0	51.1	10.4	25.3	
	5	10	53	11	31	
GJE			11.5			
			12			
GRA	3.0	4.4	30.2	7.0	9.6	1.0
	4	5	33	8	14	1
HIGH	1.8		17.8	2.0	7.6	
	2		30	2	21	
LAN	6.8	4.0	47.6	9.0	43.2	
	7	5	55	10	53	
LTH	1.0	9.8	60.3	13.0	19.5	
	2	10	67	14	20	
ORK		0.5	3.1		1.4	
		1	6		4	
SHET	3.6	1.0	3.0			
	6	1	3			
TAY	5.7	1.0	25.1	6.8	8.4	
	6	1	29	7	12	













Workforce – Number of each Non-Medical Role by Salary Band

Salary Band	AC	AP	BMS	CS	HCS A.	HCS P.
9				1.0 1		
8d			1.0 1	11.0 12		
8c			3.6 6	10.4 11		
8b			4.9 9	21.2 23		
8a			22.4 29	15.4 16		
7	4.2 5		90.1 99	9.8 10		
7 (Annex 21)			0.3 2			
6	1.9 3		211.2 242	12.0 12		
6 (Annex 21)			32.7 38			
5	3.3 4		22.5 23			1.0 1
4	10.7 15	39.6 51				
3	14.9 20				152.0 201	
2	5.9 7				15.7 24	
Unknown	0.6 2					

Workforce - Number of Non-Medical Role Vacancies in each Board



Workforce – Medical Posts and Vacancies in each Health Board

	Consultant		University Consultant	
	Post	Vacancy	Post	Vacancy
A&A		2		
BOR		1		
D&G		1		
FIF				
FV				
GGCC		2		
GGCN		3		
GGCS		4		
GJE				
GRA		3		1
HIGH		1		
LAN				
LTH		2		
ORK				
SHET				
TAY		1		1
WI				

Workforce – Age Profile by Health Board, Role and Salary Band

	<=25	26-40	41-55	56-60	>60	Headcount of Staff in Health Board
A&A			3	1		4
BOR	2	8	4	3	2	19
D&G	2	13	9	6	3	33
FIF		12	7	8		27
FV		11	5	6	1	23
GGCC		1	4			5
GGCN	16	60	31	18	4	129
GGCS	5	52	40	10	2	109
GJE	3	6	2	1		12
GRA	13	26	16	6	3	64
HIGH	4	16	25	7	2	54
LAN	14	54	34	15	6	123
LTH		7	11	1	1	20
ORK		1	6			7
SHET	1	1	2			4
TAY		23	15	4	8	50

Job and Band	<=25	26-40	41-55	56-60	>60	Headcount of Staff in Role and Salary Band	
BMS	8d		1			1	
	8c		1	1	3	5	
	8b		1	3	3	1	8
	8a		10	12	6		28
	7 (Annex 21)		1	1			75
	7		35	26	10	4	2
	6 (Annex 21)	9	24	1			175
	6	15	59	59	37	5	34
5	3	16				19	
HCS	5	1				1	
	3	21	72	50	16	9	168
	2	7	4	2	6	5	24
CS	9				1	1	
	8d		2	9		1	12
	8c			9	1	1	11
	8b		10	12	1		23
	8a		10	5		1	16
	7		6	4			10
	6	2	10				12
AP	3	27	7		1	38	

Workforce – Years in Post by Health Board, Role and Salary Band

	<2	2-5	6-10	>10	Headcount of Staff in Heath Board
A&A	1	1			2
BOR	1	4	3	10	18
D&G	8	12	2	10	32
FIF		11	5	11	27
FV	10	5	2	5	22
GGCC	4	16	23	12	55
GGCN	46	28	13	39	126
GGCS	36	28	12	29	105
GJE	4	2	3	3	12
GRA	21	18	8	14	61
HIGH	14	11	13	15	53
LAN	22	32	46	23	123
LTH	6	6	3	3	18
ORK	2	1		1	4
SHET	3		1		4
TAY	6	18	9	16	49

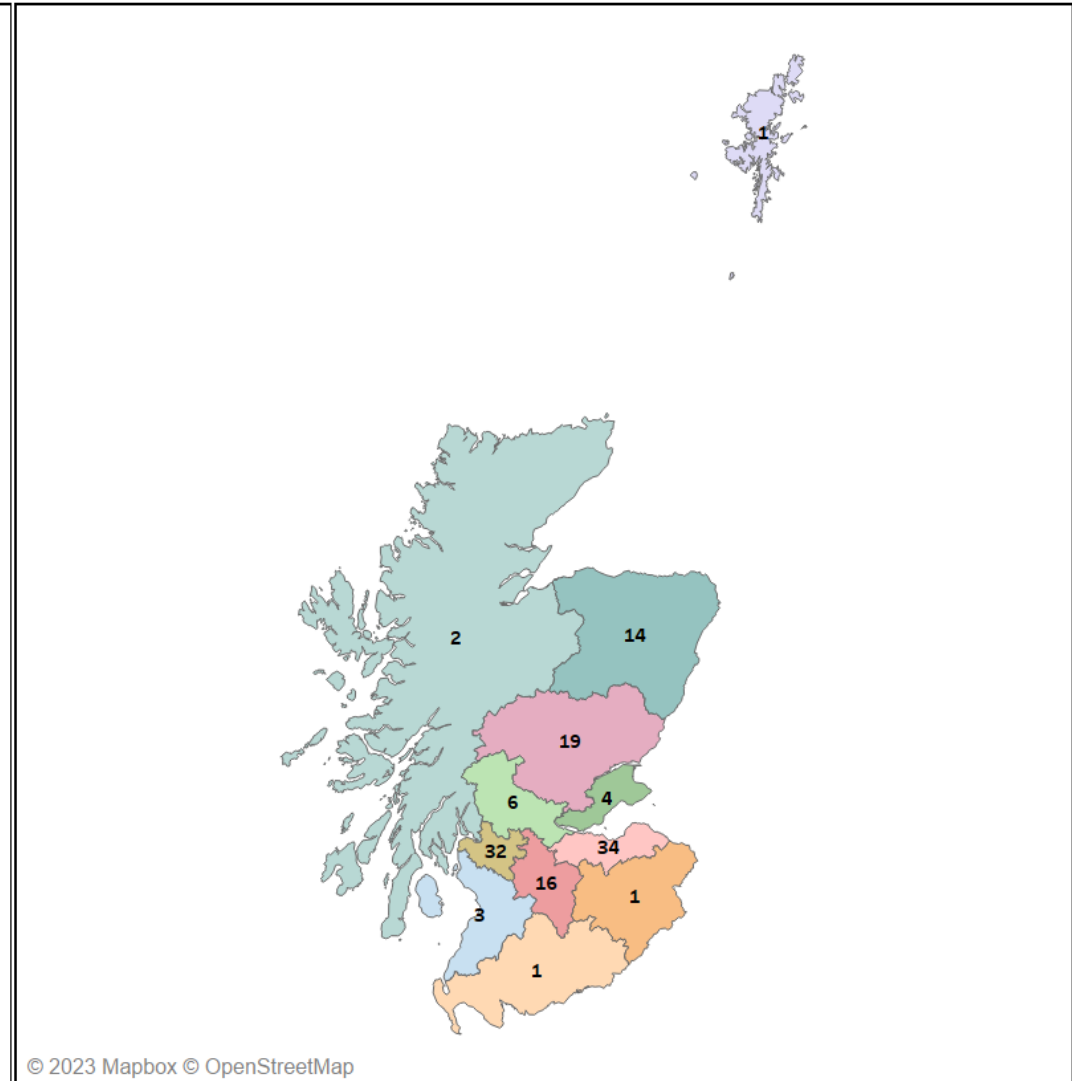
Job and Band	<2	2-5	6-10	>10	Headcount of Staff in Role and Salary Band	
BMS	8d	1			1	
	8c		1	4	6	
	8b	1	4	1	3	9
	8a	9	13		7	29
	7	16	24	18	22	80
	7 (Annex 21)	1		1		2
	6	31	37	43	89	200
	6 (Annex 21)	18	20			38
5	7	9	3		19	
HCS	5	1			1	
	3	41	40	52	44	177
	2	9	3	2	10	24
CS	9			1	1	
	8d	1	5	3	3	12
	8c	2	2	2	5	11
	8b	6	10	7		23
	8a	4	8	1	3	16
	7	3	5		2	10
	6	8	4			12
AP	4	8	6	1	40	

Workforce – Leavers

Leavers By Reason

Leavers By Health Board

Retirement	41
Internal Promotion	34
Moving to other NHS Scotland Board	28
Other	10
Internal Movement	10
Moving outwith Scotland	6
Move to private Industry	4



Appendix 1 – Tests included in each category

Other Urine Tests	
5 Hydroxy Indole Acetic Acid	Mercury
Albumin/Microalbumin (Urine)	Mucopolysaccharides
Alcohol	Myoglobin
Amino Acid Profiles	Nag
Amino Acids	Nitrogen
Amylase	Normetadrenaline
B2 Microglobulin	Organic Acids
Bilirubin	Osmolality
Calcium	Oxalate
Catecholamines (Inc. Metadrenaline) - Count As 1 Test	Paraquat
Chloride	Phosphate
Copper	Porphobilinogen
Cortisol	Porphyrins
Cortisol (Ufc)	Potassium and Sodium
Cotinine	Pregnancy Test (Not By Quantitation Of Hcg)
Creatinine	Protein (24Hr)
Cystine	Protein (Reported As Creatinine Ratio)
Dpd	Reducing Substances
Glucose	Sodium
Iron	Steroid Profile
Laxative Screen	Urate
Laxative Screen 1	Urea
Light Chains	Urine Volume
Magnesium	Urobilinogen

Other Chemistry Tests			
3-Methoxytyramine (B&U)	(Sweat) Sweat Test	Faecal Elastase	Phenylalanine (B)
7-Dehydrocholesterol (B)	(Typh) Phenylalanine/Tyro	Faecal Fat	Plasma Erythropoietin
(Adl) Adalimumab	(Ugagsc) U Glycosaminogly	Faecal Immunochemical Tests (FIT)	Plasma Gb3
(Adlabf) Adalimumab Ab Fr	(Uoscrn) Oligosaccharide	Faecal Occult Blood (Non-Immuno)	Quetiapine (Plasma)
(Adlabt) Adalimumab Ab To	(Vdz) Vedolizumab	Faecal Ph	Renal Calculus
(Bcama) Branched-Chain Aa	(Vori) Voriconazole	Faecal Reducing Substances	Sars-Cov-2 Igg
(Bet) Betaine	Adalimumab	Faecal Total Porphrins	Serum Adalumimab
(Biot) Biotinidase	Albumin/Creatinine Ratio (Ratio**)	Faecal Total Porphyrins	Serum Amyloid A
(Bro) Bromide	Alpha Galactosidase (B)	Faecal Weight	Serum B12
(Chit) Chitotriosidase	Alpha-Glucosidase (Bs)	Fluid Bilirubins	Serum Infliximab
(Crc) Chromium Clearance	Alphafetoprotein (Csf)	Fluid Ca125	Serum Placental Growth Factor
(Dbsabg) B-Glucocerebrosi	Anti Ttg (Igg)	Fluid Ca199	Serum Sflt-1
(Dbsasm) Sphingomyelinase	Anti-Thyroglobulin Antibody (B)	Fluid Cea	Serum Vitamin B12
(Dbsbga) Beta-Galactosida	Asialotransferrin (Fluid)	Fluid Cholesterol	Sweat Chloride (Sw)
(Dbsfab) Alpha-Galactosid	Biotinidase	Fluid Lactate	Sweat Test (Sw)
(Dbsgal) Galactocerebrosi	Biotinidase (B)	Fluid Osmolality	Tandem Mass Spec For Doa Confirmation
(Dbssha) Hexosaminidase A	Bloodspot 17-OHprogesterone	Fluid Triglycerides	Thioguanine Metabolites
(Dbslal) Acid Lipase	Cart (B)	Free Carnitine (B)	Thioguanine Nucleotides (B)
(Dbsmii) Iduronate2Sulpha	Chitotriosidase	Free Fatty Acid	Thiopur Metabolites,6Tgn&6Mmpn
(Dbspom) Alpha Glucosidas	Cholestenone	Free Fatty Acids	Topiramate (B)
(Dbsppt) P-P Thioesterase	Chromogranin A (Tumour Marker)	Gabapentin (B)	Trimethylamine (U)
(Dbsthx) Total Hexosamini	Chromogranin A/B	Gal-1-Put Screen (B)	Tryptase
(Dbstpp) Tripeptidyl Pept	Citrate	Gallstone	Tyrosine (B)
(Etn) Etanercept	Citrate (U)	Guanidinoacetate (U)	Urea Breath Test
(G1Put) Gal-1-P-Ut Screen	Clozapine (Plasma)	Hyaluronic Acid	Urinary Gb3
(G1Putq) Gal-1-Put	Csf Amino Acids	Igf li (B)	Urine Citrate
(Gpd) G6Pd Screen	Csf Lactate	Immuno-Reactive Trypsin	Urine Drugs Of Abuse (Hram)
(Gpdq) Gpd (Quantitative)	Csf Lactate Dehydrogenase	Infliximab	Urine Ph
(Hxg) Hexanoylglycine	Csf Neurotransmitters	Intrinsic Factor Abs Screen	Urine Total Protein (For Electrophoresis)
(Ifx) Infliximab	Csf Orexin	Levetiracetam (B)	Vanillylmandelic Acid (U)
(Ifxabf) Infliximab Ab Fr	Csf Potassium	Liver Iron	Vedolizumab
(Ifxabt) Infliximab Ab To	Csf Pterine	Lysosomal Enzymes	Vegf (B)
(Itra) Itraconazole	Csf Pyridoxyl Phosphate	Lysosomal Enzymes (B)	Very Long Chain Fatty Acids
(Lysl) Lysosomal Enzymes	Csf Tetrahydrobiopterin	Metanephrines (Spot U)	Vit B12
(Lysp) Lysosomal Enzymes	Csf Total Neopterin	Methylmalonate (B)	Vitamin B1 (Thiamin)
(Lysx) Lysosomal Enzymes.	Csf Urea	Mycophenolate (B)	Vitamin B2 (Riboflavin)
(Mpsvii) Beta-Glucuronida	Erythropoietin	Olanzapine (B)	Vitamin K
(Nefa) Non-Ester Fatty Ac	Erythropoietin (B)	Oligosaccharides (U)	Vlc Fatty Acids (B)
(Oro) Orotic Acid -Tms	Everolimus (B)	Other Chemistry Tests	White Cell Cystine (B)
(Posa) Posaconazole	Faecal Calprotectin	Pancreatic Lipase (B)	
(Siala) Sialic Acid Scree	Faecal Chromatography	Phenylalanine	

Other Chemistry Tests (additional for GGCS)	
(Adl) Adalimumab	(G1Putq) Gal-1-Put
(Adlabf) Adalimumab Ab Fr	(Gpdq) G6Pd Screen
(Adlabt) Adalimumab Ab To	(Gpdq) Gpd (Quantitative)
(Bcama) Branched-Chain Aa	(Hxg) Hexanoylglycine
(Bet) Betaine	(Ifx) Infliximab
(Biot) Biotinidase	(Ifxabf) Infliximab Ab Fr
(Bro) Bromide	(Ifxabt) Infliximab Ab To
(Chit) Chitotriosidase	(Itra) Itraconazole
(Crc) Chromium Clearance	(Lysl) Lysosomal Enzymes
(Dbsabg) B-Glucocerebrosi	(Lysp) Lysosomal Enzymes
(Dbsasm) Sphingomyelinase	(Lysx) Lysosomal Enzymes.
(Dbsbga) Beta-Galactosida	(Mpsvii) Beta-Glucuronida
(Dbsfab) Alpha-Galactosid	(Nefa) Non-Ester Fatty Ac
(Dbsgal) Galactocerebrosi	(Oro) Orotic Acid -Tms
(Dbshxa) Hexosaminidase A	(Posa) Posaconazole
(Dbslal) Acid Lipase	(Siala) Sialic Acid Scree
(Dbsmii) Iduronate2Sulpha	(Sweat) Sweat Test
(Dbspom) Alpha Glucosidas	(Typh) Phenylalanine/Tyro
(Dbsppt) P-P Thioesterase	(Ugagsc) U Glycosaminogly
(Dbsthx) Total Hexosamini	(Uoscrn) Oligosaccharide
(Dbstpp) Tripeptidyl Pept	(Vdz) Vedolizumab
(Etn) Etanercept	(Vori) Voriconazole
(G1Put) Gal-1-P-Ut Screen	

Fluids
Albumin
Alpha-Fetoprotein
Amylase
Creatinine
Csf Glucose
Csf Igg
Csf Protein
Glucose
Hcg
Lactate Dehydrogenase
Ph
Potassium and Sodium
Protein
Sodium
Sweat Tests
Tau Protein
Urate
Urea
Xanthochromia

Immunochemistry Tests
Anti Ttg (Coeliac Screening)
Cryofibrinogen Studies
Cryoglobulin Screen
Cryoglobulin Typing
Csf Oligoclonal Bands
Iga
Igd
Igg
Igg Subclasses (G1, 2, 3 And 4)
Igm
Mannose Binding Lectin
Protein Electrophoresis
Serum Free Light Chains
Serum Paraprotein Immunofixation
Serum Paraprotein Immunotyping
Serum Paraprotein Quantitation
Urine Electrophoresis
Urine Immunofixation

Urine Drugs of Abuse
Amphetamine
Barbiturates
Benzodiazepine
Buprenorphine
Cannabis
Cocaine
Gc/Ms Confirmation
Lsd
Methadone
Opiates
Rapid Slide Test
Tlc Confirmation

Plasma, Serum or Blood					
1,25 Hydroxy Vitamin D	Arsenic	CKMB Enzymatic	HCG (Non-Downs)	Osmolality	T3 (Total)
11-Deoxycortisol	Ascorbic Acid (Leucocyte)	CKMB Mass	HDL	Osteocalcein	T4 (Free)
17 Hydroxy Progesterone	AST	Cobalt	Homocysteine	P1CP (Bone Markers)	T4 (Total)
17 Oh Progesterone	B Hydroxybutyrate	Copper	IGF1	P1NP (Bone Markers)	Tacrolimus (Fk 506)
25 Hydroxy Vitamin D	B2 Microglobulin	Cortisol	IGFBP-3	P3NP (Not ELF testing)	Testosterone
ACTH	Bicarbonate	Creatinine Enzymatic	Inhibin A/B	Pancreatic Polypeptide	Theophylline
Acyl Carnitine	Bile Acids	Creatinine JAFFE	Insulin	Paracetamol	Thiamine Diphosphate
Adrenaline	Bilirubin (Conjugated)	CTx	Insulin C-Peptide	Phenobarbitone	Thyroglobulin
Albumin	Bilirubin (Total)	Cyclic AMP	Iron	Phenytoin	Thyroid Binding Globulin
Alcohol (Ethanol)	Bismuth	Cyclosporin	Iron Binding Capacity	Phosphate	Total Protein
Aldosterone	Blood Gas (Excluding Poct)	Cystatin	Lactate	PKU For Neonatal Screening	TPMT
Alkaline Phosphatase	Blood Spot Tsh	DHAS/DHEAS	Lamotrigine	Placental Alkaline Phosphatase	Transferrin
Alkaline Phosphatase Isoenzymes	Bnp/Ntprobnp	Digoxin	LDH	Porphyrins	Transketolase
Alpha 1 Antitrypsin	Bone Alkaline Phosphatase	Dihydrotestosterone	LDL	Potassium and Sodium	Triglyceride
Alpha 1 Antitrypsin Phenotype	C-Reactive Protein	Dopamine	Lead	Procalcitonin	Troponin I
Alpha-Fetoprotein (Non-Downs)	CA 15-3	Downs Screening	Leptin	Progesterone	Troponin T
ALT	CA 19-9	Elf Testing	LH	Proinsulin	TSH (Routine)
Aluminium	CA 125	Ethosuximide	Lipase	Prolactin	TSH Receptor Ab
Amino Acids	Cadmium	Ethylene Glycol	Lipoprotein Lipase	Protein S100	Urea
Amiodarone	Caeruloplasmin	Ferritin	Lithium	PSA (Free)	Uric Acid
Amitriptyline	Calcitonin	Flecainide	Lp(A)	PSA (Total)	Valproate
Ammonia	Calcium	Folate	Macroprolactin	Pth	Vasoactive Intestinal Polypeptide
Amylase	Carbamazepine	Folate (Red Cell)	Magnesium	Pthrp	Vitamin A
Androstenedione	Carbohydrate Deficient Transferrin	Fructosamine	Manganese	Pyruvate	Vitamin B6
Angiotensin Converting Enzyme	Carboxyhaemoglobin	FSH	Mercury	Quantitative Thyroid Hormone Bind	Vitamin B12
Anti Mullerian Hormone	Carotene	Gamma Glutamyl Transferase	Methaemoglobin	Renin Activity	Vitamin C
Anti Thyroid Peroxidase Antibodies (TPO)	Carotenoids	Gastrin	Methanol	Salicylate	Vitamin E
Antibiotics (Gentamycin)	CEA	Glucagon	Methotrexate	Selenium	White Cell Enzymes
Antibiotics (Other)	Chloride	Glucose	Myoglobin	Shbg	Zinc
Antibiotics (Tobramycin)	Cholesterol	Growth Hormone	Neurone Specific Enolase	Sirolimus	
Antibiotics (Vancomycin)	Cholinesterase	Gut Hormone Screen	Noradrenaline	Sodium	
APO A1	Cholinesterase Phenotyping	Haemochromatosis Gene Testing	Nortriptyline	Somatostatin	
APO B	Chromium	Haptoglobin	Oestradiol	Sulphonylureas	
APO E Genotype	CK (Creatine Kinase)	HbA1c	Orosomuroid	T3 (Free)	