

## 1 Introduction

SPAN is one of five national diagnostic networks, commissioned by NHS Scotland to improve pathology services through:

- · Steering modernisation, including service change and redesign;
- Improving quality;
- Ensuring provision of an effective pathology service, which anticipates and responds to user needs, future requirements, and national guidelines; and meets United Kingdom Accreditation/ISO 15189 Standards (previously Clinical Pathology Accreditation Standards).

In order to do this effectively, SPAN needs access to data on workload and service performance across Scotland, enabling benchmarking and the identification of variation. SPAN therefore works with labs each year to collect and analyse data, providing this back to the service as an enabler for change, innovation and improvement.

This report provides an insight into the performance of individual pathology departments, set in the context of the performance of other NHS Boards. Some data are also displayed against the Royal College of Pathology turnaround times.

If you would like further support to analyse your data or to use your data to drive forward quality in your NHS Board, please contact <a href="mailto:NSS.imsrequests@nhs.scot">NSS.imsrequests@nhs.scot</a>.

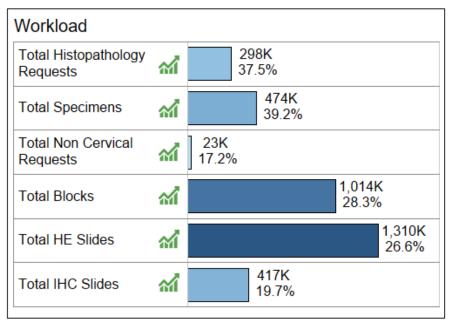
There are some instances where data in 2021-22 is not comparable to previous years, the most significant is:

-NHS Tayside were unable to submit medical staff data this year. For reference, last year the medical staff headcount for Tayside was 15.

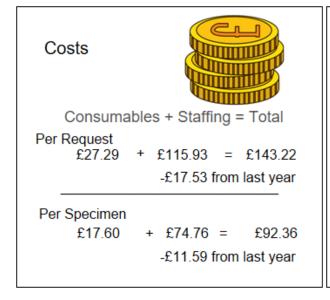
Version	Date	Changes
0.1	10/10/22	Initial Draft for steering group consideration.
0.2	23/11/22	Added Lung and Duodenal Biopsy visualisations.  Workforce changes according to data resubmitted, mainly in relation to Advanced Practitioners.  Additional commentary on data provided in Introduction.
1.0	18/01/22	Approved Version.

#### 2 NHS Scotland Dashboard

This dashboard shows the changes in key metrics from the last financial year.



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-5%		1%	8%	0%	1%	-6%
75.6 A&C WTE	7.8 Adv. P. WTE	48.6 APT WTE	77.4 Assoc. P. WTE	257.6 BMS WTE	94.9 HCS Asst. WTE	146.8 Medical HC





8.9% of Histo Requests reported in 3 calendar days -36.4% from last year

30.5% of Histo Requests -34.3%

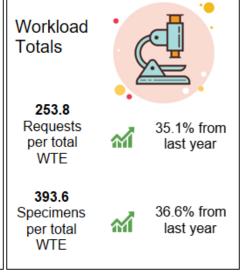
85.8% of Breast Needle Core reported in 7 calendar days

reported in 7 calendar days

-34.3% from last year

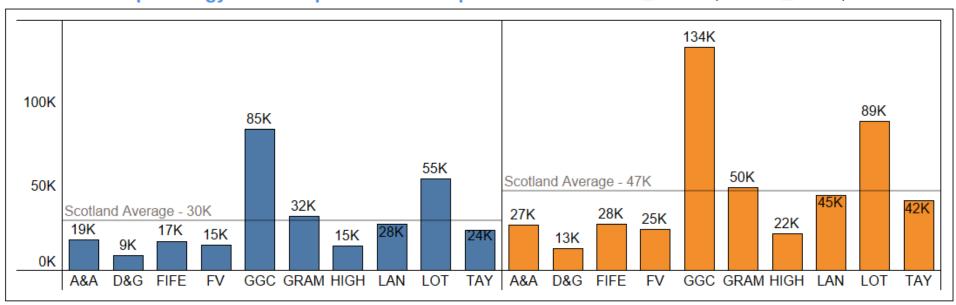
m

-5.4% from last year



#### 3 Histopathology: 3.1 Requests, Specimens, Blocks and Slides

Table 1: Histopathology Total Requests & Total Specimens Volume ■ Total Requests ■ Total Specimens



- NHS Scotland received **298,236** Total Histopathology Requests in **21/22**.



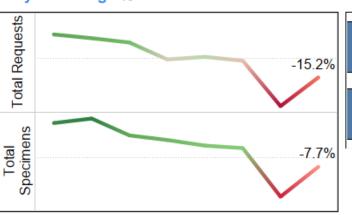
This is **UP** 37.5% from last year.

- NHS Scotland received **474,011** Total Specimens in **21/22**.

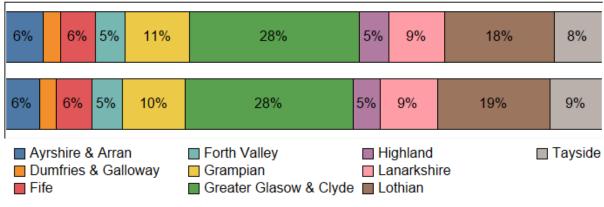


This is **UP** 39.2% from last year.

#### 10 year change %

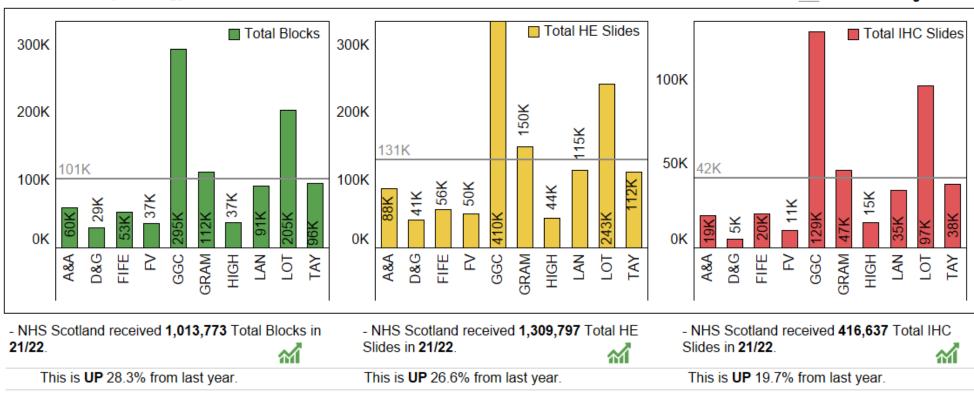


#### % of Scotland Total

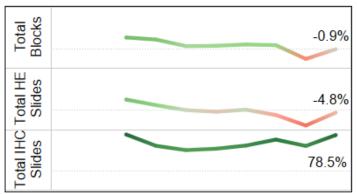


#### 3 Histopathology: 3.1 Requests, Specimens, Blocks and Slides

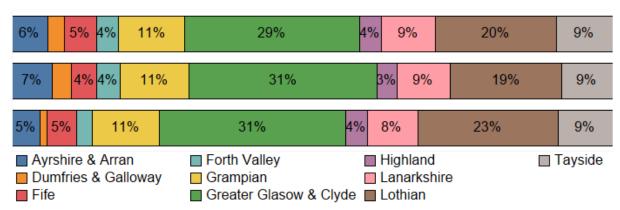
Table 2: Histopathology Workloads for total Blocks, H&E Slides and IHC Slides



#### 10 year change %

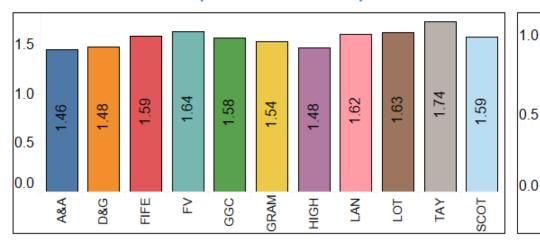


#### % by Board of Scotland Total



Scotland average

Table 3: Ratio of Total Specimens: Total Requests



The Specimens:Requests ratio for Scotland in 21/22 of 1.59 is UP 1.2% from last year.

M

The ICCSlides: Specimens ratio for Scotland in 21/22 of 0.88 is DOWN -14.0% from last year.

0.43

 $\geq$ 

38

D&G

A&A

FIFE



SCOT

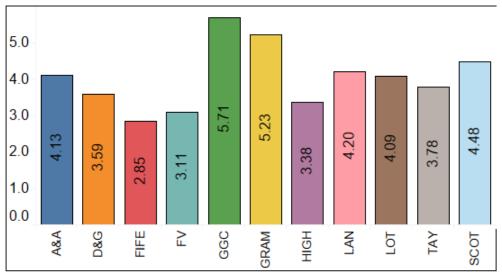
TΑΥ

0.88

1.09

ГОТ

Table 4: Ratio of Total Slides: Total Specimens



The Slides: Specimens ratio for Scotland in 21/22

Table 6: Ratio of Total Blocks : Total Specimens

Table 5: Ratio of Total ICC Slides: Total Requests

0.97

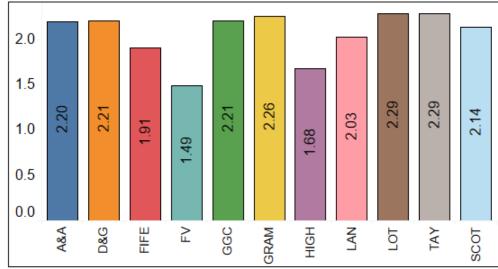
GGC

0.94

GRA.

HGH

LAN



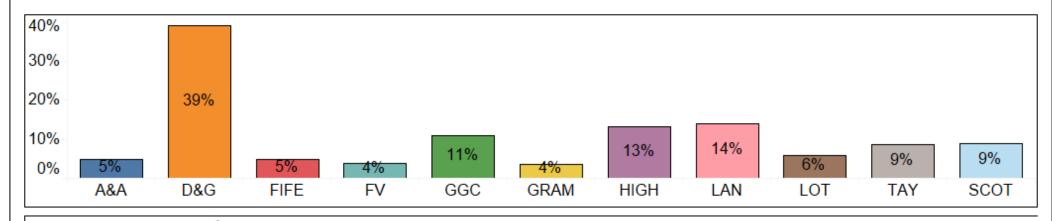
The Blocks: Specimens ratio for Scotland in 21/22 of 2.14 is DOWN -7.8% from last year.



of 4.48 is DOWN -10.8% from last year.

# 3.2 Histopathology Turnaround Times

Table 7: Standard Histopathology Requests Reported in 3 Calendar Days



The % Turnaround against target for Scotland is **DOWN** -36.4% from last year.

Table 8: Standard Histopathology Requests Reported in 7 Calendar Days

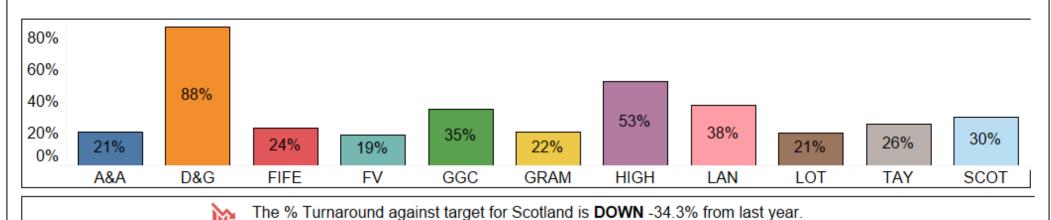


Table 9: Percentage of Breast Needle Core, Prostate Needle Core and Colorectal Endoscopy biopsies reported within 7 calendar days

Table 9 displays a combined graph of NHS Scotland's Health Boards % turnaround for the excisions and resections, in line with the Scotlish weighted average and the 80% RCPath KPI.

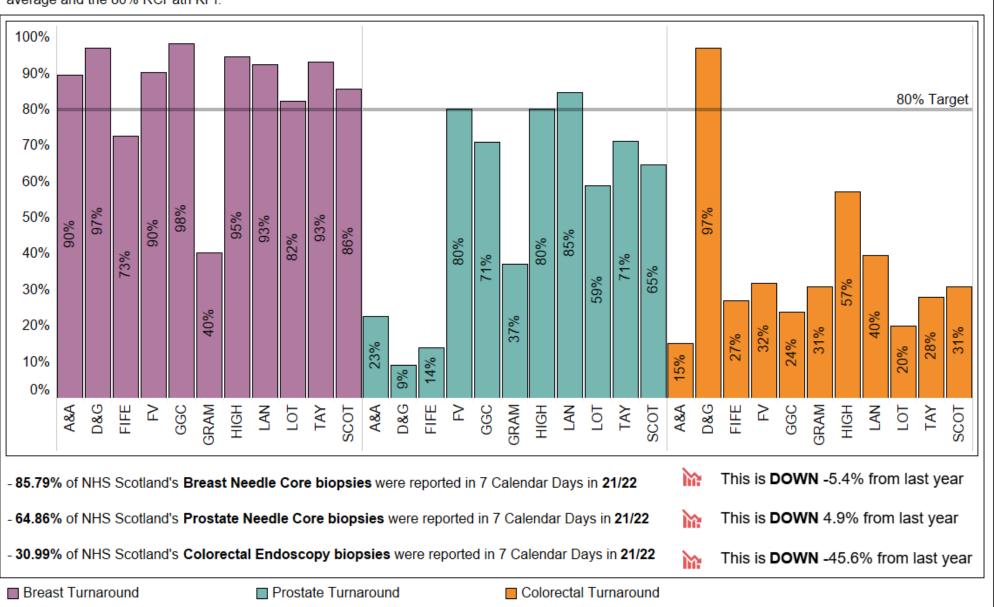
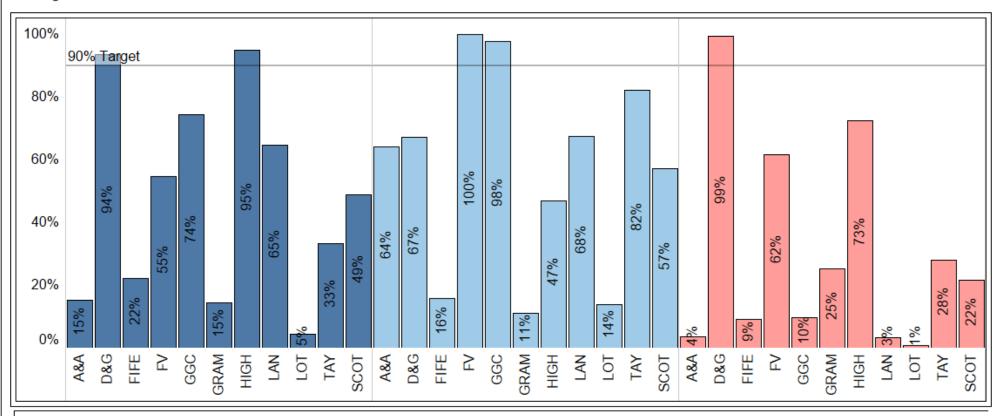


Table 10: Turnaround times (in hours) for Breast Needle Core, Prostate Needle Core and Colorectal Endoscopy Biopsies. Breast Hours 21/22 54.59 ⊉18.29 113.07 10 30 60 110 120 130 140 150 160 170 180 190 200 210 220 Prostate 21/22 Hours 124.08 180.15 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 Colorectal 21/22 Hours 99.00 1,192.06 421.92 200 300 500 700 800 900 1,000 100 400 600 1,100 1,200 - NHS Scotland's breast needle core turnaround time in mean calendar hours for 21/22 is 113.07. This is UP 6.6% from last year - NHS Scotland's prostate needle core turnaround time in mean calendar hours for 21/22 is 180.15. This is UP 7.9% from last year This is UP 96.5% from last year - NHS Scotland's colorectal endoscopy biopsies turnaround time in mean calendar hours for 21/22 is 421.92. Ayrshire & Arran Fife Highland Lothian Grampian ■ Greater Glasow & Clyde ■ Lanarkshire ■ Dumfries & Galloway ■ Forth Valley ■ Tayside ■ Scotland Figures (Weighted Average)

Table 11: Percentage of Rectal Anterior Resections, Breast Wide Local Excisions (WLE) and Gallbladder Resections reported within 10 calendar days.

Table 11 displays a combined graph of NHS Scotland's Health Boards % turnaround for the excisions and resections, in line with the Scotlish weighted average and the 90% RCPath KPI.







This is DOWN 6.2% from last year

- 57.28% of NHS Scotland's Breast Wide Local Excisions were reported in 10 Calendar Days in 21/22



This is DOWN -9.0% from last year

- 21.59% of NHS Scotland's Gallbladder Resections were reported in 10 Calendar Days in 21/22



This is DOWN -46.0% from last year

■ Rectal Turnaround

■ Breast Wide Turnaround

■ Gallbladder Turnaround

Table 12a: Turnaround times (in hours) for Rectal Anterior Resections, Breast Wide Local Excisions (WLE) and Gallbladder Resections.

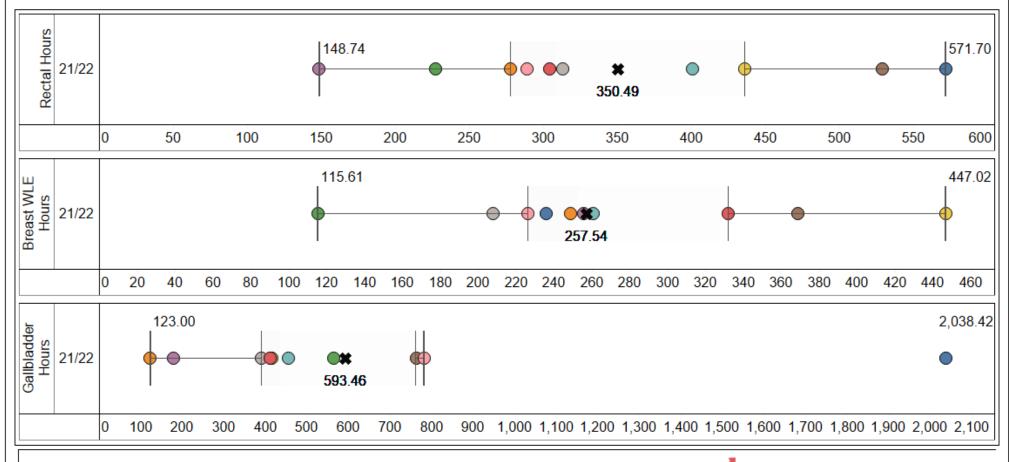
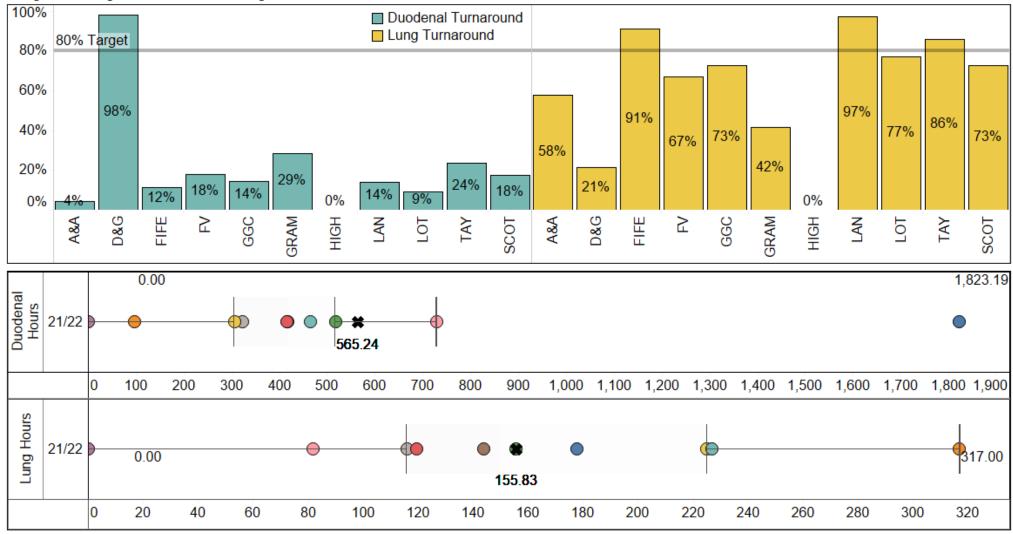




Table 12b: Percentage of Lung and Duodenal Biopsies reported within 7 calendar days

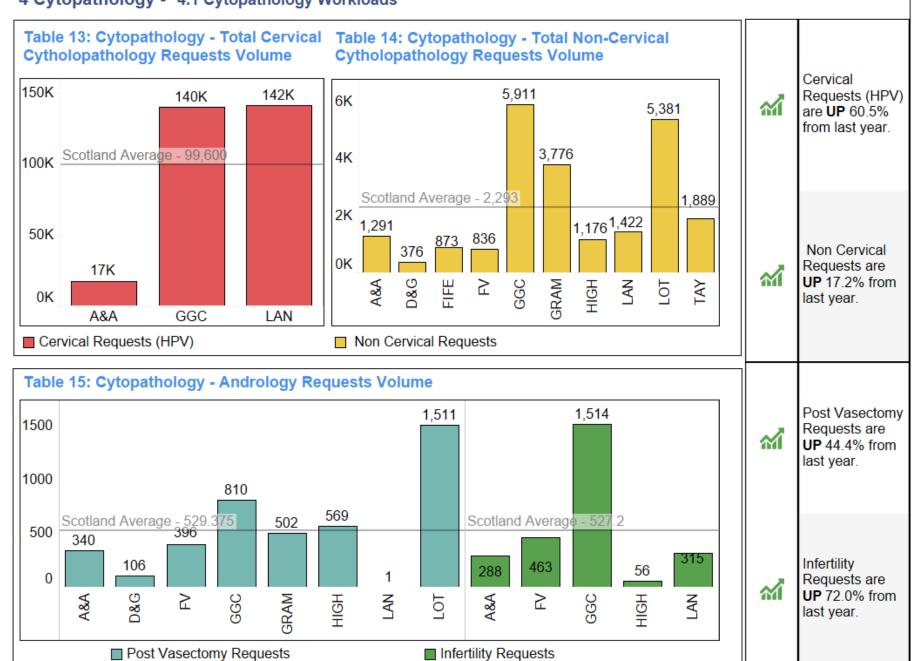
Table 12b displays a combined graph of NHS Scotland's Health Boards % turnaround in 7 days for Lung and Duodenal Biopsies, in line with the Scotlish weighted average and RCPath 80% Target.



17.56% of NHS Scotland's **Duodenal Biopsies** were reported in 7 Calendar Days in 21/22

72.94% of NHS Scotland's Lung Biopsies were reported in 7 Calendar Days in 21/22

#### 4 Cytopathology - 4.1 Cytopathology Workloads



## 4.2 Cytopathology Turnaround Times (% change from last year)

Table 16: Cytopathology – Non-Cervical/Diagnostic Cytopathology Requests Completed in 3 Calendar Days

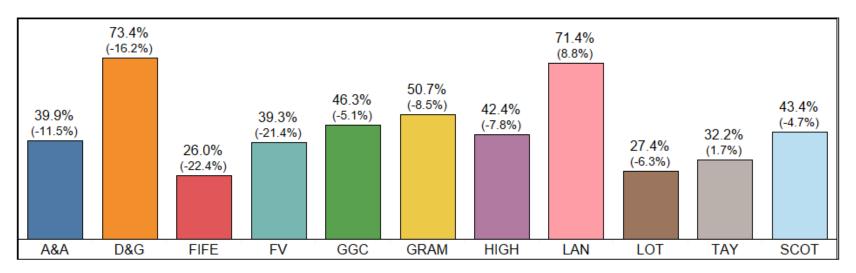
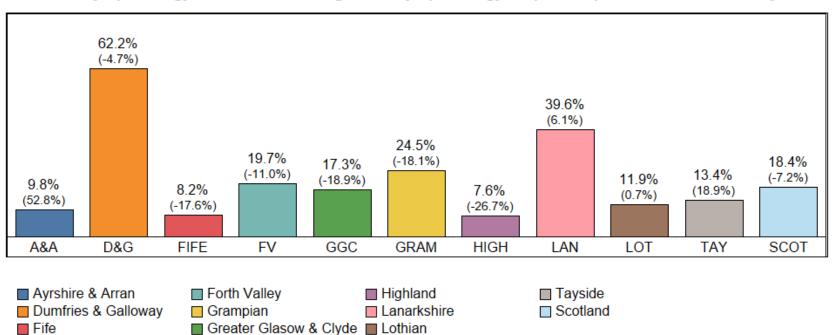
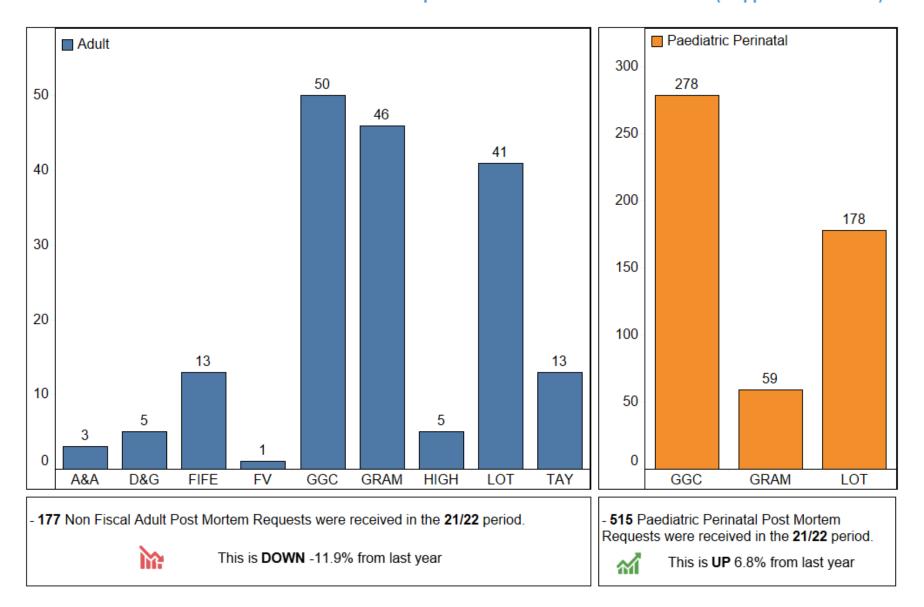


Table 17: Cytopathology – Non-Cervical/Diagnostic Cytopathology Request Reported in 1 Calendar Day



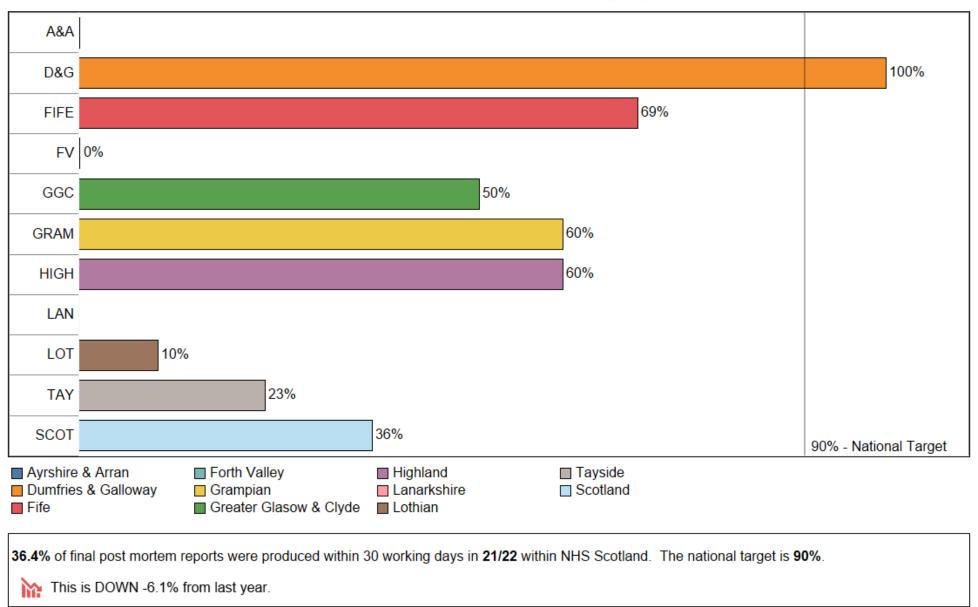
# **5 Post Mortem Requests**

Table 18: Post Mortem – Non-Fiscal Post Mortem Requests Volume for Adults & Paediatrics (if applicable to board)



## 5 Post Mortem Requests (continued)

Table 19: Post Mortem - Post Mortem Requests with a Final Report at 30 Working Days



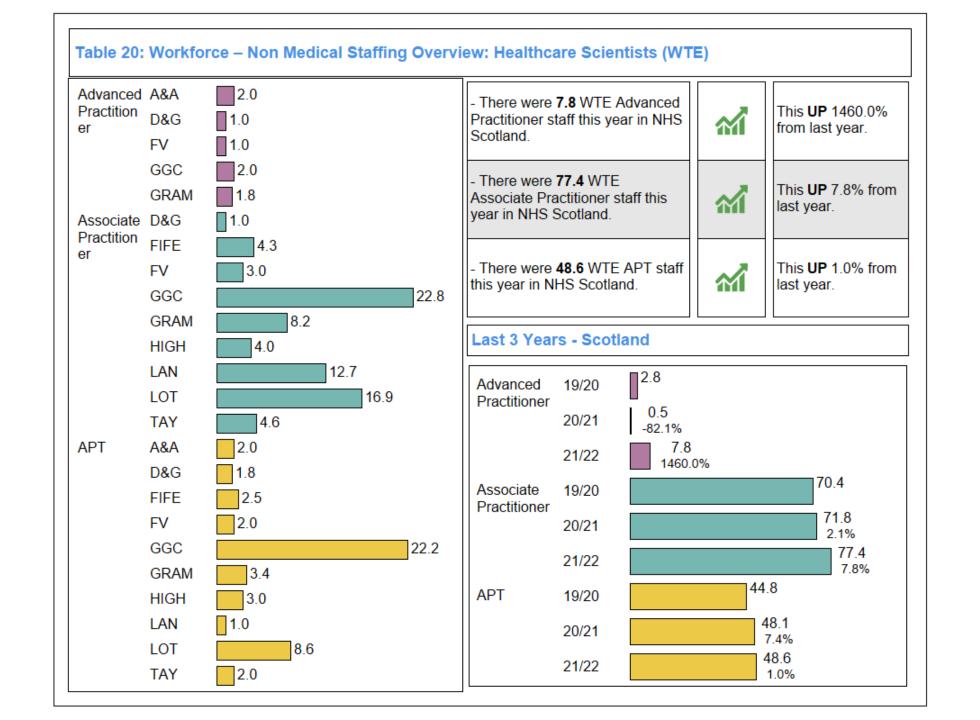
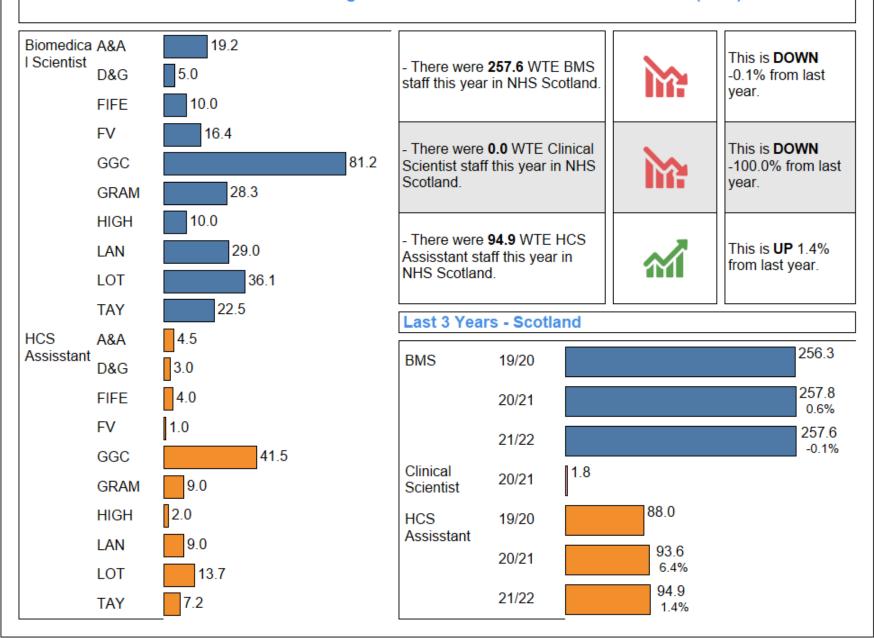
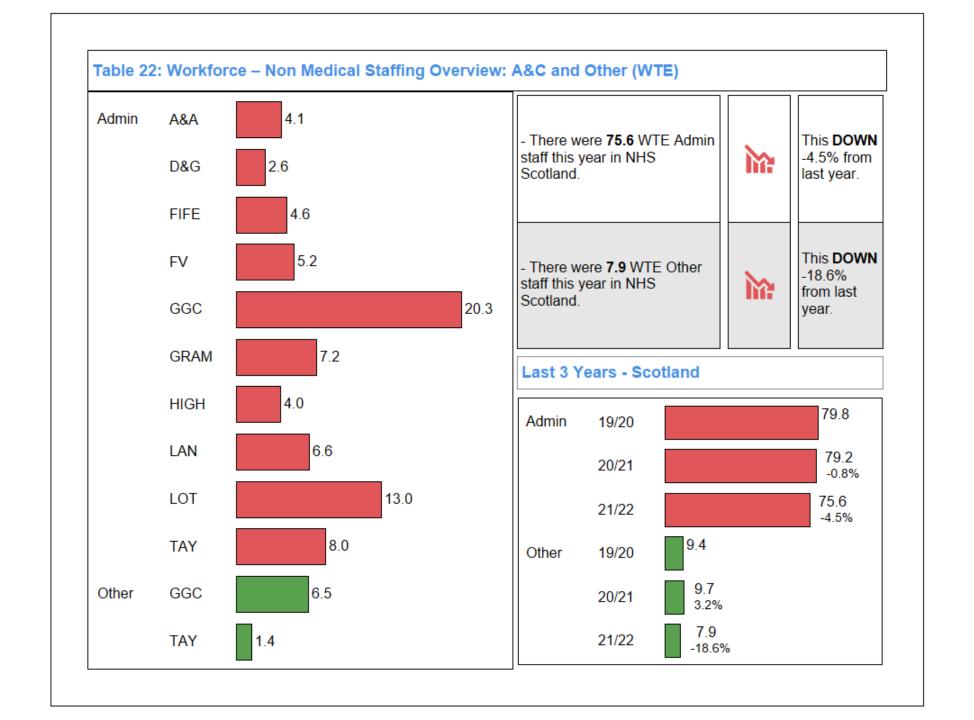
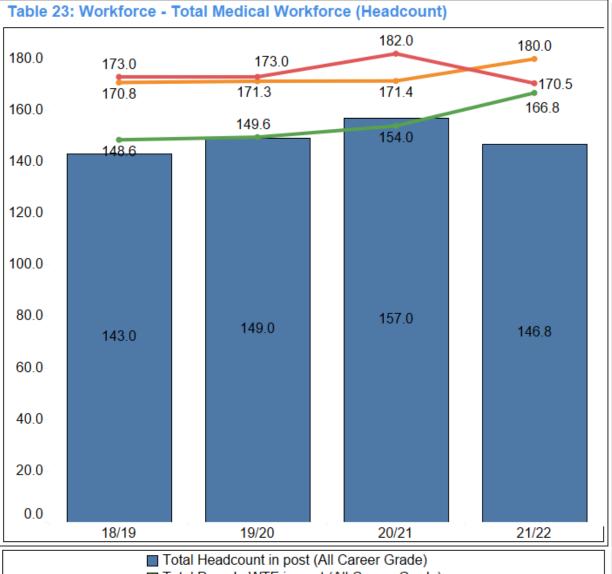


Table 21: Workforce – Non Medical Staffing Overview: Healthcare Scientists Continued (WTE)







# ■ Total Headcount in post (All Career Grade) ■ Total Pseudo WTE in post (All Career Grade) ■ Total Headcount (Uni+NHS+Approved Vacancies) ■ Total Pseudo WTE All Career Grade+Vacancies)

#### **Formulas**

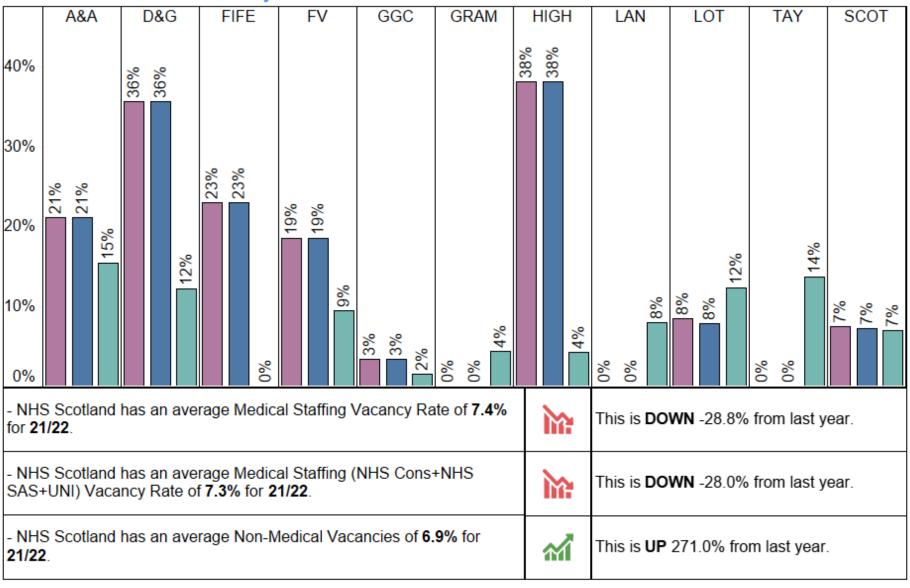
Total Headcount (Uni+NHS+Approved Vacancies) = NHS consultants in post + NHS Consultants Vacancies + Non-consultant career grade medical staff in post + University consultants in post (Headcount) + University consultant vacancies (Approved vacancies -Headcount)

Total NHS Headcount in post (All Career Grade) = NHS consultants in post + Non-consultant career grade medical staff in post

Total Pseudo WTE in post (All Career Grade) =
(Number of Direct Clinical Contact (DCC)
Programmed Activities (PA) in post + Extra
Programmed Activities (EPA) in post + Supporting
Professional Activities (SPA) in post + Additional
Responsibilities PA in post + External Duties PA
in post + Non-consultant career-grade medical
staff Sessions or Programmed Activities in post) /
10

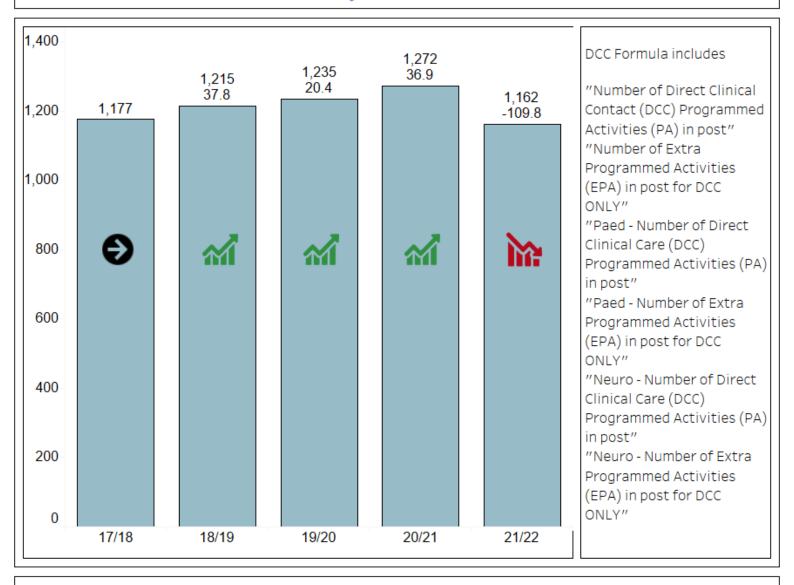
Total Pseudo WTE in post (All Career Grade+Vacancies) = (Number of Direct Clinical Contact (DCC) Programmed Activities (PA) in post + Number of Extra Programmed Activities (EPA) in post + Number of Supporting Professional Activities (SPA) in post + Number of Additional Responsibilities PA in post + Number of External Duties PA in post + Non-consultant career-grade medical staff Sessions or Programmed Activities in post + NHS consultant vacancies (WTE) / 10.

**Table 24: Workforce – Vacancy Rate** 



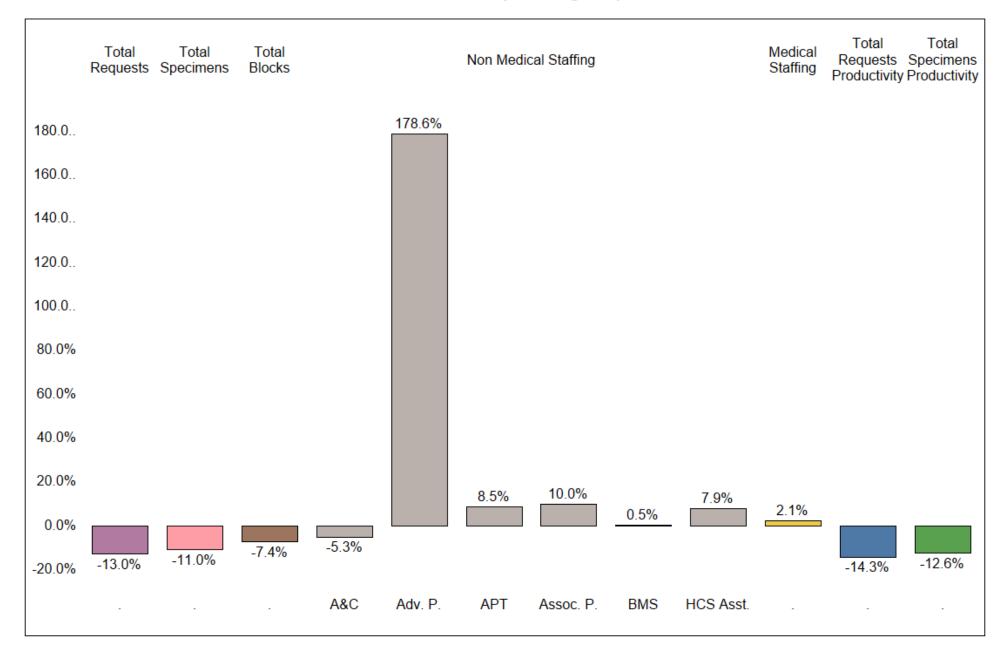
- Medical Staffing Vacancy Rate
- Med and Uni/SAS Consultant Vacancy Rate
- Non Medical Staffing Vacancy Rate

Table 25: Workforce - Total DCC Sessions by Year



The 21/22 DCC figure of 1,162 represents a FIVE year % Change of -1.2%

# 7 Workload vs. Workforce Table 26: Workload vs. Workforce - 3 year Change Snapshot



### 8 Notional Productivity

Table 27: Productivity - Notional Non-Screening Requests per WTE

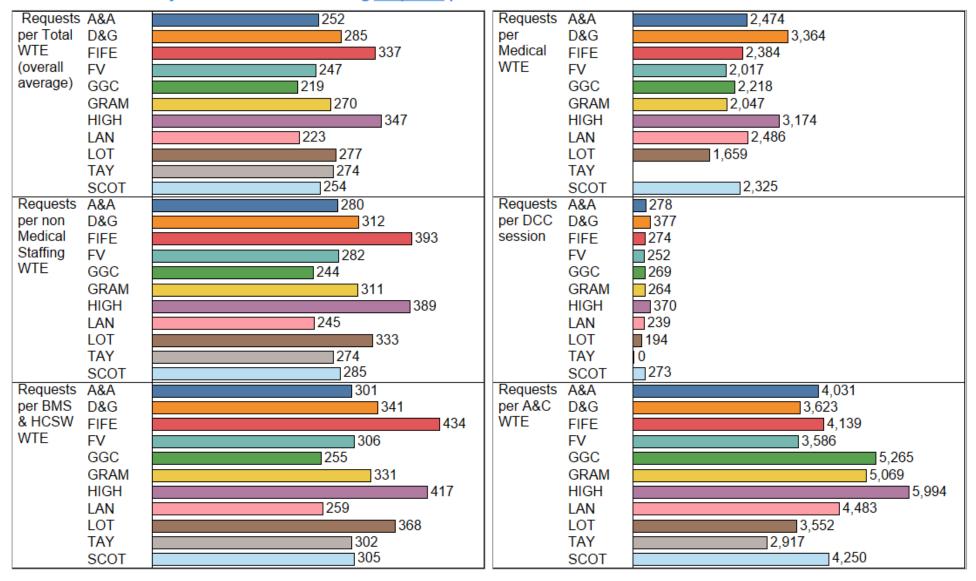
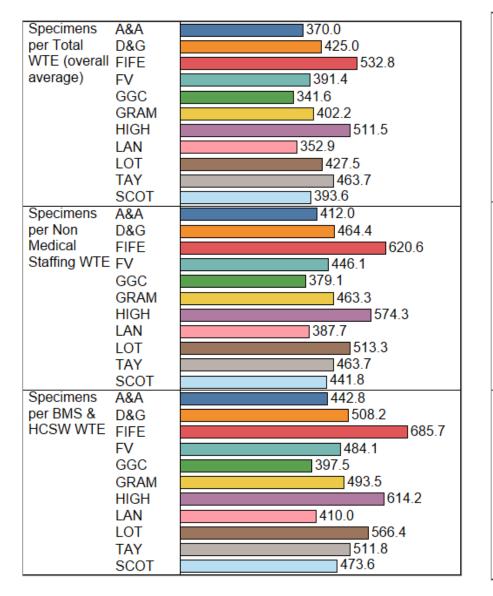
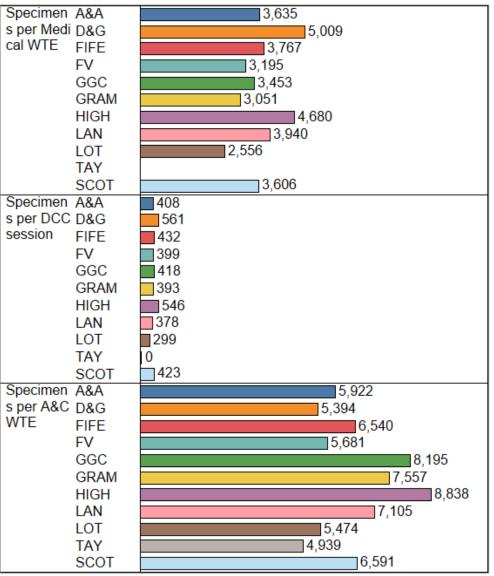




Table 28: Productivity - Notional Non-Screening Specimens per WTE





The average notional Non-Screening specimens per total WTE for NHS in 21/22 was 53.88 specimens to 1 WTE.



This is DOWN -32.9% from last year.

#### 9 Notional Costs

Table 29: Costs – Notional Total Non-Screening Requests, Overview (Costs / Number of Requests)

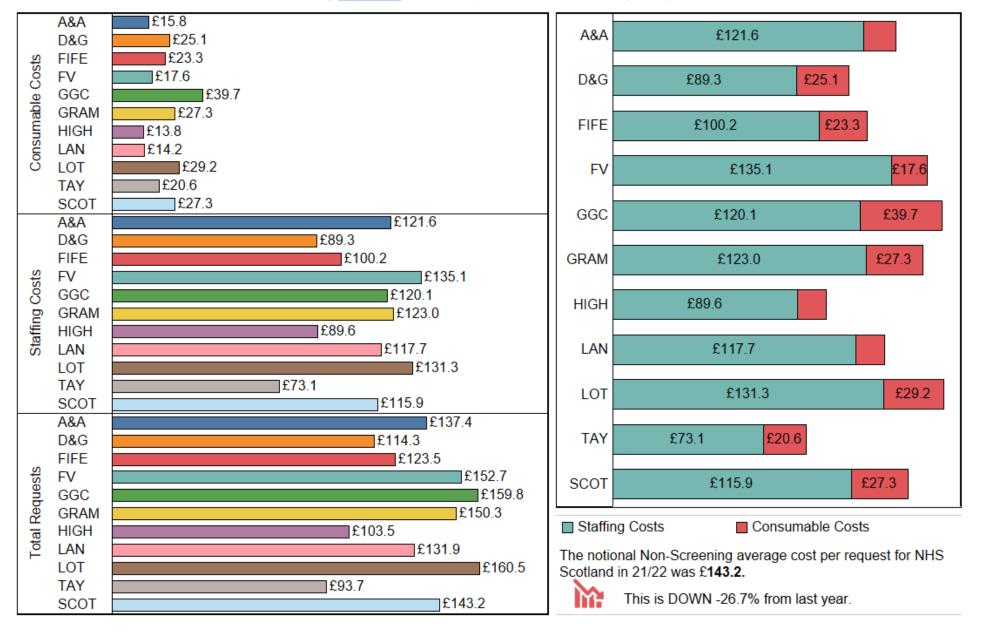
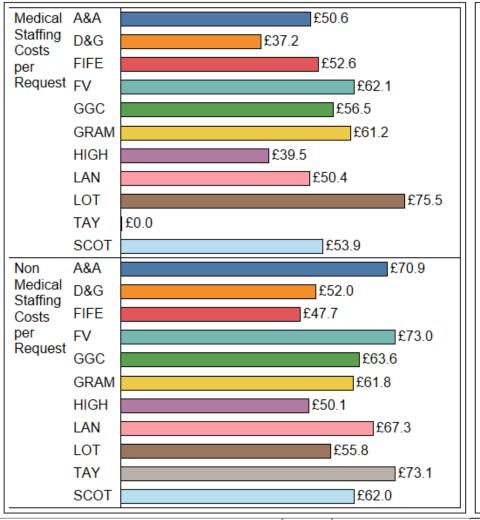
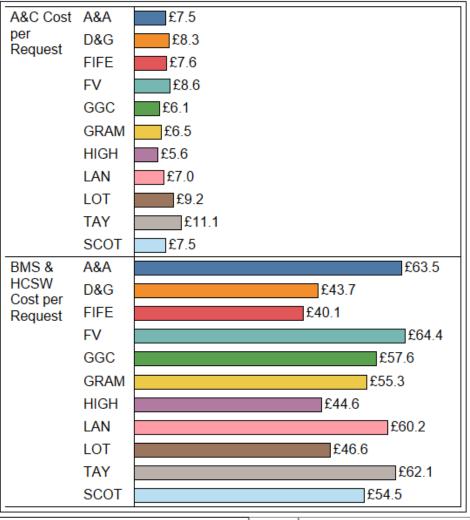


Table 30: Costs – Notional Non-Screening Requests, Staffing Costs Drill Down (Costs / Number of Requests)





The average Medical Staffi Request for NHS in 21/22 v	1-37 9% Imm last	The average A&C Cost per Request for NHS in 21/22 was £7.53.	-	This is <b>DOWN</b> -27.8% from last year.
The average Non Medical S Request for NHS in <b>21/22</b> v	This is <b>DOWN</b> -24.9% from last year.	The average BMS & HCSW Cost per Request for NHS in 21/22 was £54.52.	m	This is <b>DOWN</b> -24.4% from last year.

Table 31: Costs – Notional Non-Screening Specimens, Overview (Costs / Number of Specimens)

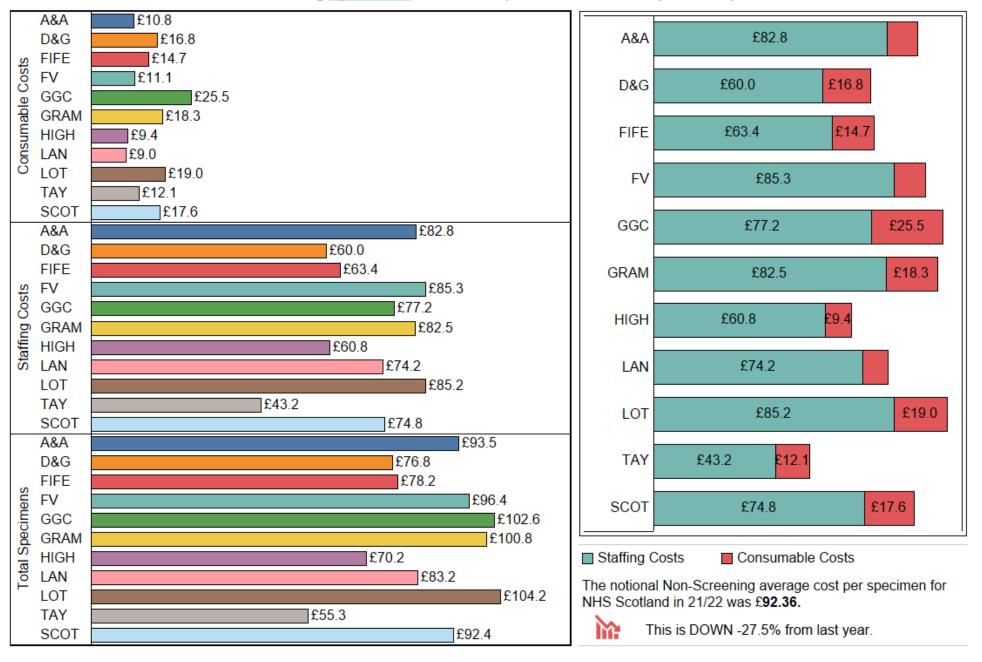


Table 32: Costs – Notional Non-Screening Specimens, Staffing Costs Drill Down (Costs / Number of Specimens)

