

digitalhealth

REWIRED
BIRMINGHAM 12-13 MARCH 2024

Headline Sponsors:



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Buckinghamshire Healthcare NHS Trust

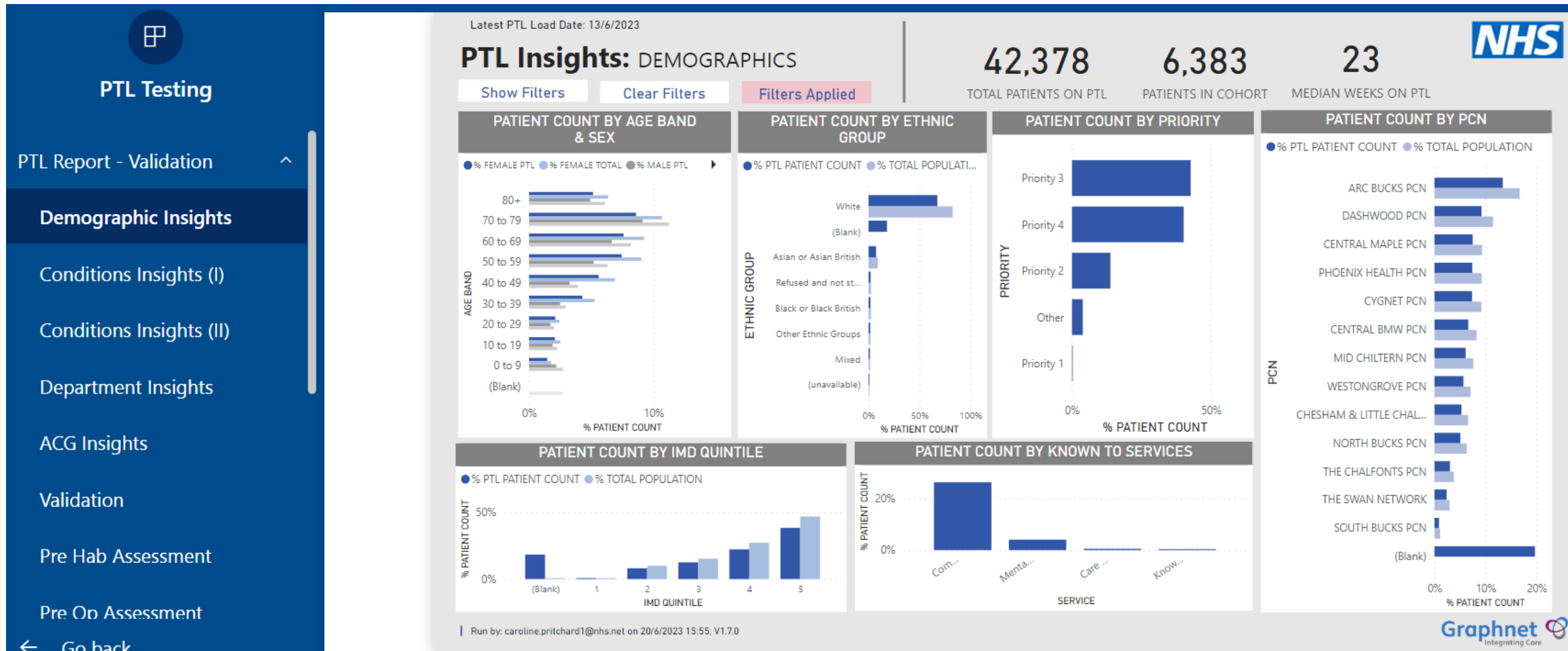


**INTEGRATED
CARE
STAGE**

Stage Sponsor:



Surgical population health dashboard development



New demographic insights: Activity and frailty Burden

This report includes all waiting list entries. Please use filters to remove deceased patients from the report.

Latest PTL Load Date: 23/02/2024

Conditions

BETA VERSION

44,863

7,576

7,715

94

Show Filters

Clear Filters

Filters Applied

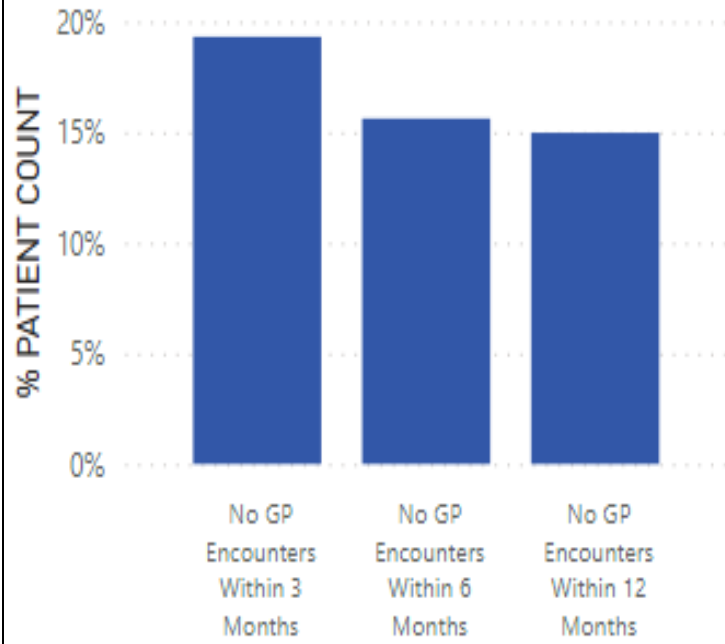
TOTAL PATIENTS ON W/L

PATIENTS IN COHORT

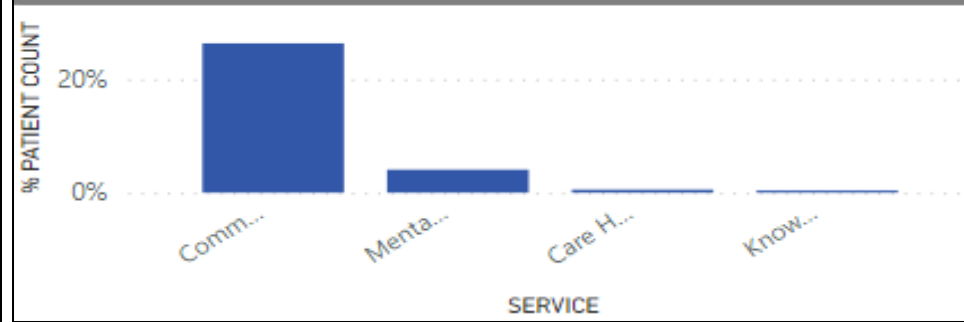
NO OF WAITING ENTRIES

MAX WEEKS ON W/L

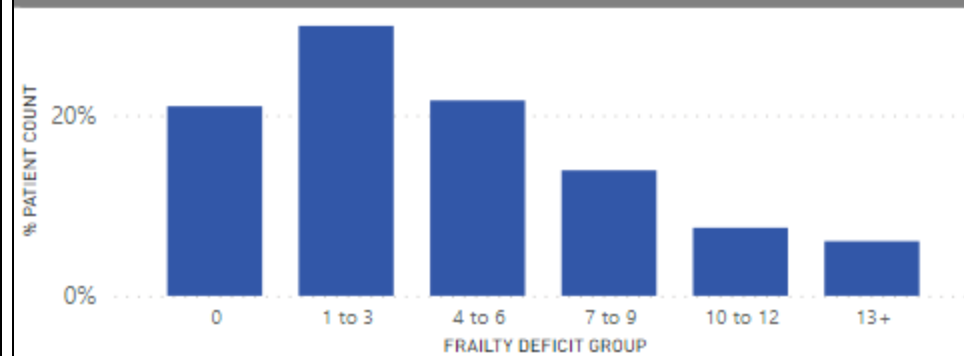
PATIENTS WHO HAVE NOT HAD A GP ENCOUNTER WITHIN 3,6 & 12 MONTHS



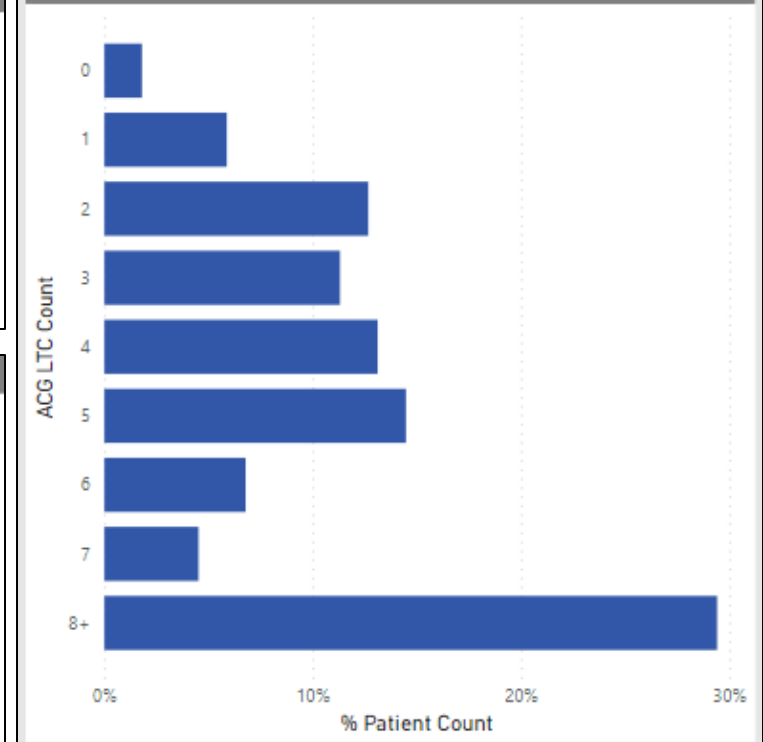
PATIENT COUNT BY KNOWN TO SERVICES



PATIENT COUNT BY FRAILTY DEFICIT COUNT



PATIENT COUNT BY ACG LTC COUNT



Filtering to analyse the surgical waiting list

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Risks

BETA VERSION

The 'risk category' buttons interact with each other using 'AND' logic except the '# QOF LTCs' buttons which interact with each other using 'OR' logic.

7,576

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94

PATIENTS IN COHORT

NO OF WAITING ENTRIES

MAX WEEKS ON W/L

Consultant	AF or HF	Asthma or COPD	BMI >= 35	Emergency Admissio...	Hypertension	Latest HbA1c >=47 a...	Stroke/TIA
All	Anaemic	BMI < 18.5	Current or Ex Smoker	High Alcohol Consum...	0 -1 QOF LTCs		

Waiting List Filters	Demographic Filters	Disease & Tests Filters	Waiting List Filters	Demographic Filters	Disease & Tests Filters
Consultant <input type="text" value="All"/>	Treatment Function <input type="text" value="All"/>	Procedure <input type="text" value="All"/>	QOF Condition (OR) <input type="text" value="All"/>	QOF Condition (AND) <input type="text" value="All"/>	RUB <input type="text" value="All"/>
Provider Name, Site Name <input type="text" value="All"/>	Booking Status <input type="text" value="All"/>	Procedure Complexity <input type="text" value="All"/>	Alcohol Consumption <input type="text" value="All"/>	QOF LTC Count <input type="text" value="0"/> <input type="text" value="0"/>	Latest BMI <input type="text" value="0.00"/> <input type="text" value="93.46"/>
Wait List Type <input type="text" value="Admitted"/>	Weeks on W/L <input type="text" value="1"/> <input type="text" value="121"/>	Patient Optimisation Category <input type="text" value="All"/>	Smoking Status <input type="text" value="All"/>	Risk of Emergency Admission <input type="text" value="0.01"/> <input type="text" value="0.96"/>	Latest HbA1c <input type="text" value="0.0"/> <input type="text" value="147.0"/>
Priority <input type="text" value="All"/>	TCI Date <input type="text" value="Last"/> <input type="text" value="1"/> <input type="text" value="Select"/>	Pre-Op Assessment Category <input type="text" value="All"/>	Anticoagulant Prescribed (3M) <input type="text" value="All"/>	Risk of Extended Hospitalisation <input type="text" value="0.00"/> <input type="text" value="0.91"/>	Mortality Risk Score <input type="text" value="-9"/> <input type="text" value="114"/>
Future Activity <input type="text" value="All"/>	<input type="text" value="No filters applied"/>		Anaemia Flag <input type="text" value="All"/>	<input type="text" value="0.00"/> <input type="text" value="0.91"/>	Latest Hb <input type="text" value="10"/> <input type="text" value="209"/>

Case study: Poorly controlled diabetics

This report includes all waiting list entries. Please use filters to remove deceased patients from the report.

Latest PTL Load Date: 23/02/2024



Conditions II

BETA VERSION

44,863

144

145

76

Show Filters

Clear Filters

Filters Applied

TOTAL PATIENTS ON W/L

PATIENTS IN COHORT

NO OF WAITING ENTRIES

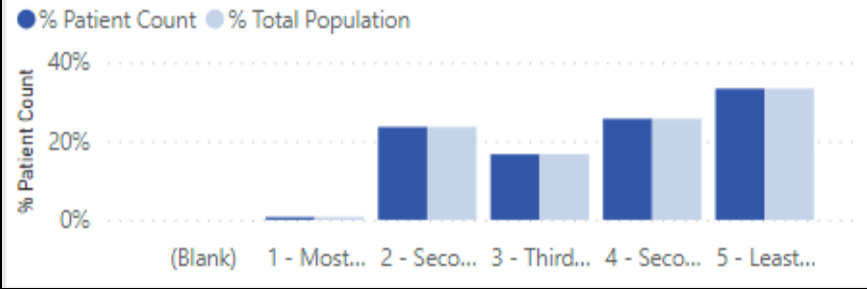
MAX WEEKS ON W/L

ACG Conditions

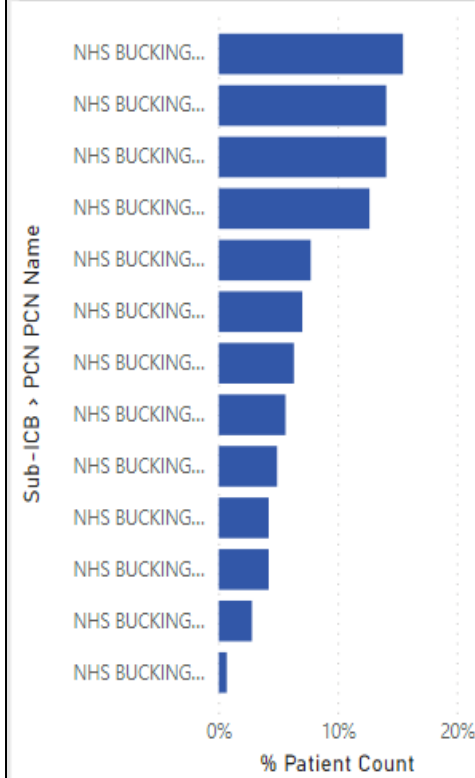
Frailty Deficits

EDCs

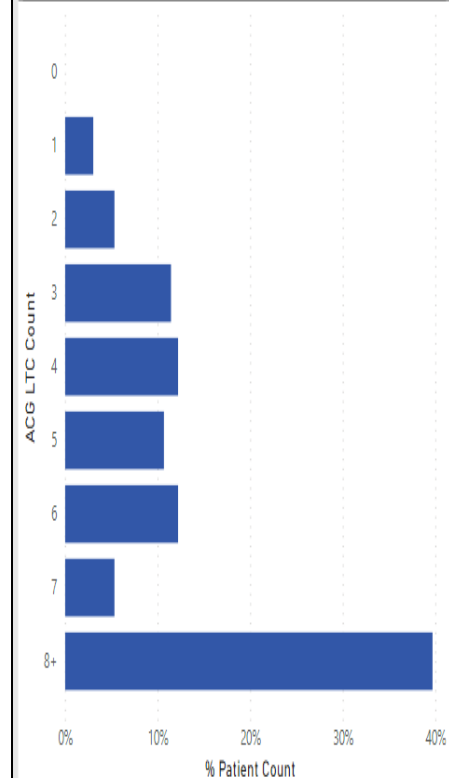
PATIENT COUNT BY IMD QUINTILE



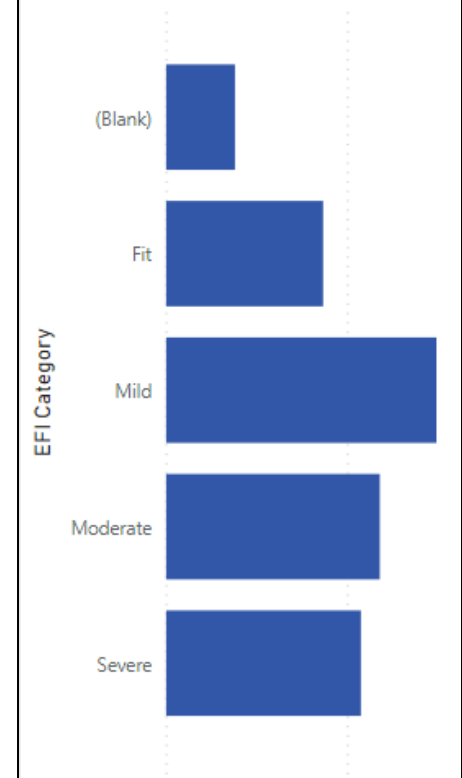
PATIENT COUNT BY SUB-ICB > PCN



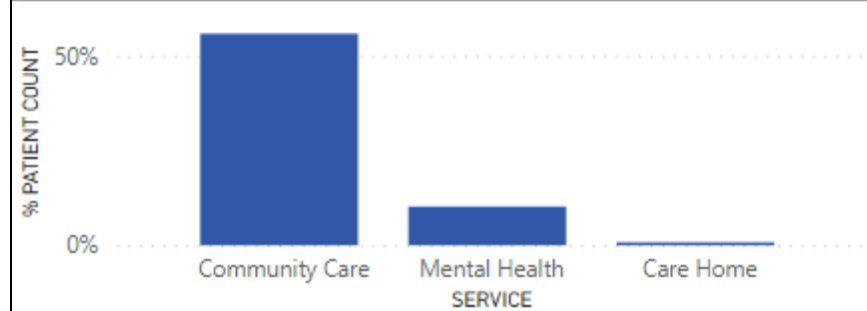
PATIENT COUNT BY ACG LTC COUNT



PATIENT COUNT BY EFI CATEGORY



PATIENT COUNT BY KNOWN TO SERVICES



Poorly controlled diabetics: Target resources wisely

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Latest PTL Load Date: 23/02/2024



Conditions II

BETA VERSION

44,863

144

145

76

Show Filters

Clear Filters

Filters Applied

TOTAL PATIENTS ON W/L

PATIENTS IN COHORT

NO OF WAITING ENTRIES

MAX WEEKS ON W/L

ACG Conditions

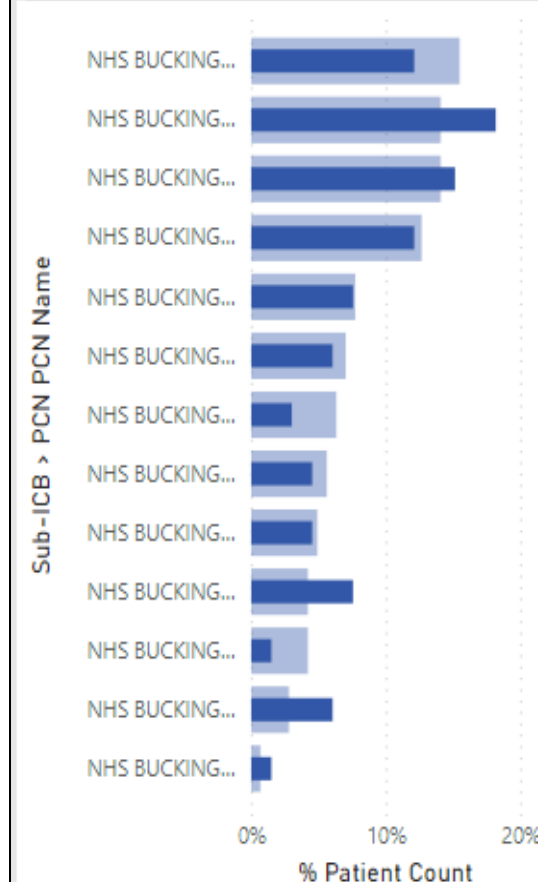
Frailty Deficits

EDCs

PATIENT COUNT BY TREATMENT FUNCTION

Treatment Function	Patient Count	Max Weeks on W/L
Ophthalmology Service	44	48
Trauma and Orthopaedic Service	41	76
Urology Service	18	65
General Surgery Service	16	62
Pain Management Service	11	47
Plastic Surgery Service	7	44
Gynaecology Service	4	66
Ear Nose and Throat Service	3	32
Interventional Radiology Service	1	15

PATIENT COUNT BY SUB-ICB > PCN



Peri-op dashboard development

Operational data

- PTL National Minimum Dataset
- PAS system data

Clinical data

- SCR
- POA colour coded comorbidities
- Surgical complexity – AXA/BUPA PPP

ASA 1 fit and well	Golden
ASA 2 well controlled	Green
F2F Nurse POA	Orange
High risk, Likely Anaesthetic review.	Red
Very complex, end of life, extremes of age, multi comorbid.	Purple

POA triage: Supporting operational teams to book safely

Latest PTL Load Date: 16/2/2024

PTL Insights: E-OP ASSESSMENT

Show Filters Clear Filters Filters Applied

Note that this report is currently under development. It should only be used as an indication for pre-hab and pre-op purposes currently and the information should be triangulated with other local data sources as appropriate

44,873 7,564 24
TOTAL PATIENTS ON PTL PATIENTS IN COHORT MEDIAN WEEKS ON PTL



Consultant		NHS Number																			Gold	Green	Orange	Red	Unclassified
NHS Number	Forenames	Surname	DOB	Date Listed	Weeks Listed	Booking Status	Consultant Name	Procedure	Surgical Category	Cardiovascular	Respiratory	Neurological	Haematological	Endocrine	GIT/GU	Simple Drugs Count	Social	General	Previous Anaesthetics	Triage Category	POA Date	POA Outcome	POA Clinic Code	Attended	
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	04/08/22	81	TCI booked	A Graham	lesion of peritoneum	MINOR	Green	Gold	Gold	Gold	Gold	Orange	Green	Gold	Green		Orange	19/01/24	Discharge	WHPOG		
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	04/08/22	81	TCI booked	C Wayne	Unspecified division of fascia	MAJOR	Gold	Gold	Gold	Gold	Orange	Gold	Green	Gold	Gold		Orange	07/12/23	Discharge	WHPOG		
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	08/08/22	80	TCI not booked	S Miah	Total abdominal hysterectomy NEC	MAJOR	Orange	Gold	Red	Gold	Gold	Orange	Green	Gold	Orange		Red	22/11/23	Discharge	WHPOG		
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	09/08/22	80	TCI booked	J Baxter	Endoscopic resection of prostate NEC	NYC	Gold	Gold	Gold	Gold	Gold	Gold	Green	Gold	Gold		Green					
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	09/08/22	80	TCI not booked	K Davda	Adjustment to muscle origin of tendon	NYC	Gold	Green	Green	Orange	Gold	Gold	Green	Gold	Gold		Orange					
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	15/08/22	79	TCI booked	A Pendse	Osteotomy of first metatarsal bone NEC	MAJOR	Gold	Gold	Gold	Gold	Gold	Gold	Green	Gold	Green		Green					
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	15/08/22	79	TCI booked	A Pendse	Subacromial decompression	Procedure Code Missing	Gold	Gold	Gold	Gold	Gold	Gold	Green	Gold	Green		Green					
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	16/08/22	79	TCI not booked	J Baxter	Subacromial decompression	NYC	Gold	Green	Gold	Gold	Gold	Gold	Gold	Gold	Gold		Green					
XXXXXXX	XXXXXXX	XXXXXXX	XXXXXX	16/08/22	79	TCI not booked	J Baxter	Repair of capsule and anterior labrum for stabilisation of glenohumeral	NYC	Gold	Green	Gold	Gold	Gold	Gold	Gold	Gold	Gold		Green					

Run by: caroline.pritchard1@nhs.net on 29/2/2024 11:27: V1.7.0

- Copy
- Share
- Show as a table
- Include
- Exclude
- Drill through

- Patient Details
- Patient List
- Pre Op Assessment Risks
- Admissions

Drill down: Full GP summary

PTL Insights:

PATIENT DETAILS

XXXXXXXX XXXXXXXX XXXXXXXX

Patient Details

DEMOGRAPHICS

Attribute	Value
Age	89
Sex	M
Ethnic Group	White
IMD Quintile	5: Least Deprived
Care Home Flag	N
Social Care Flag	N
Mental Health Flag	N

REPEAT MEDICATIONS

Medication Date	Medication Description
07/05/2024	Apixaban 5mg tablets
07/04/2024	Apixaban 5mg tablets
08/03/2024	Apixaban 5mg tablets
04/03/2024	Allopurinol 100mg tablets
04/03/2024	Atorvastatin 40mg tablets
07/02/2024	Apixaban 5mg tablets
05/02/2024	Brilliant AquaFlate all silicone catheter male 14Ch DA310114 10ml balloon (Teleflex)
05/02/2024	Cathejell Lidocain CJLL12501 (Teleflex)
05/02/2024	Uoo 10 non-sterile drainable night

ACUTE ACTIVITY

Activity	Group	Date	Specialty	Procedure Code	Procedure Description
IP	EM	07/11/2023 08:47:00	Respirator y Medicine		
EM	EM	06/11/2023 12:02:00			

FRAILTY

Attribute	Item Value
Deficit Count	10
EFI Category	Moderate (SCORE: 0.28)
EFI Deficits	Arthritis, Atrial fibrillation, Cerebrovascular disease, Chronic kidney disease, Dementia, Heart fail

LATEST TEST RESULTS (LAST 12M)

Test Type	Activity Date	Value	Units
Blood Pressure	06/12/2023	132.000/75.000	mmHg
Blood Pressure	06/12/2023	132.000/76.000	mmHg
Blood Pressure	06/12/2023	132.000/77.000	mmHg
BMI	17/01/2024	30.360	kg/m2
Creatinine	06/06/2023	101.000	umol/l

NON REPEAT MEDICATIONS (LAST 6M)

Medication Date	Medication Description
27/10/2023	Amoxicillin 500mg capsules
22/10/2023	Comirnaty Omicron XBB.1.5 COVID-19 mRNA Vaccine 30micrograms/0.3ml dose dispersion for injection multidose vials (Pfizer Ltd)
16/10/2023	Instillagel Gel (11 MI Syringe)
16/10/2023	Instillagel Gel (11 MI Syringe)
07/10/2023	Adjuvanted quadrivalent influenza vaccine (surface antigen, inactivated) suspension for injection 0.5ml pre-filled syringes (Comirnaty UK Ltd)

SMOKING

Attribute	Value

RISK SCORES

Attribute	Value
Mortality Risk Score	93
RUB	Very High

QOF CONDITIONS

QOF CONDITIONS
Stroke/TIA
Smoking 2
Smoking 1
Obesity
Atrial fibrillation

ACG CONDITIONS

ACG CONDITION
Chronic Renal Failure

EDCs

EDCs
Acute lower respiratory tract infection
Administrative concerns and non-specific laboratory abnormalities
Cardiac arrhythmia

Run by: caroline.pritchard1@nhs.net on 29/2/2024 13:15; V1.7.0

Fast track service to surgery: Golden patients; low risk cohort

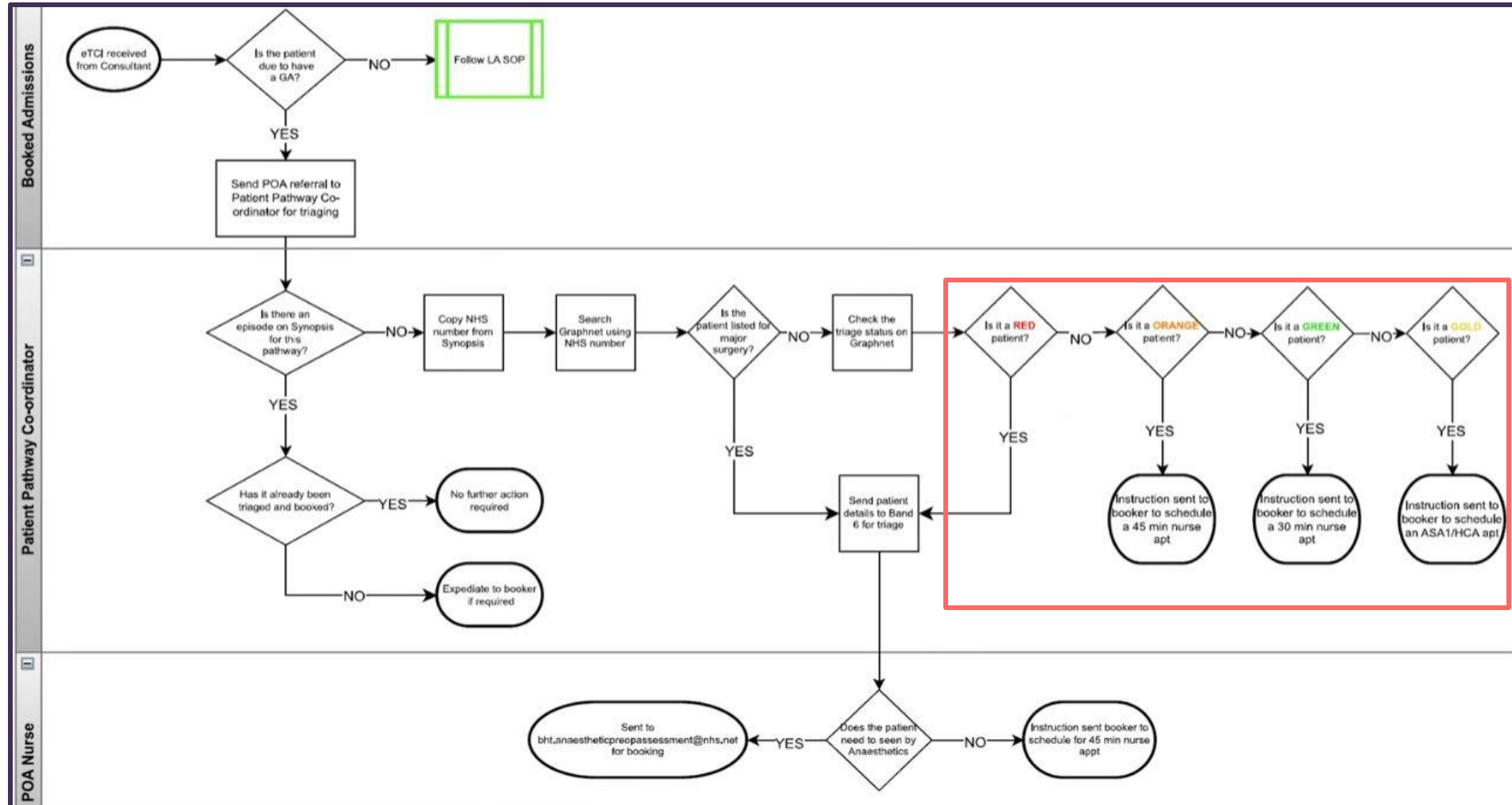
Pathway redesign

- Allocating the right resources enables
 - Improved patient throughput
 - Improved quality of care
 - Patient centred experience.
- Whilst also reducing costs

....If the SCR was complete at the point of referral

	Mar-23	Sep-23	Nov-23
Number of gold patients audited	99	84	35
Mean age (years)	42.3	41.7	40.3
Mean BMI	26.7	26.7	28.0
% on medication	36%	19%	23%
Clinical improvements			
Mean wait to sign off (d)	18.6	14.9	2.3
Median wait to sign off (d)	4.0	3.0	2.0
BMI > 35	6%	4%	9%
Current Smokers	3%	15%	17%
Alcohol >14	13%	13%	11%
%ASA1	80.8	86.9	82.9
%ASA2	19.2	13.1	17.1
Clinic evaluation			
Staff	Band 5	Band 3	Band 3
Time (minutes)	45	15	15

Remapping pathways



NHSE Requirements: Early screening

PTL Testing

PTL Report - Validation

Demographics

Conditions

Conditions II

Department

Priority

ACG

Validation

Risks

Patient Optimisation

Very Complex Patients

Pre-Operative Assessme...

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Patient Optimisation BETA VERSION

Note that this report is currently under development. It should only be used as an indication for pre-op purposes currently and the information should be triangulated with other local data sources as appropriate

7,576 PATIENTS IN COHORT 7,715 NO OF WAITING ENTRIES 94 MAX WEEKS ON W/L

Latest PTL Load Date: 23/02/2024

Show Filters Clear Filters Filters Applied

Consultant: All NHS Number: All

To select more than 1 category at a time, hold down 'Ctrl' on your keyboard whilst clicking the buttons

Exportable Data

	No Current Requirement	Early Optimisation	Complex Patients	Very Complex Patients	Unclassified								
Repeat (last 12M)	Latest Opioid Prescription	Latest Anticoagulant Prescription	Hb	Hb Units & Date	HbA1c	HbA1c Units & Date	BMI	BMI Units & Date	Systolic Blood Pressure	Diastolic Blood Pressure	Blood Pressure Units & Date	Sodium	Sodium Units & Date
4	2024-02-19, Codeine 30mg tablets		122 (g/L)	20/02/2024	36.0 (mmol/mol)	20/02/2024	52.38 (kg/m2)	27/01/2023	140	82 (mmHg)	27/01/2023	138 (mmol/L)	20/02/2024
4	2024-02-28, Zomorph 10mg modified-release capsules (Ethypharm UK Ltd)		135 (g/L)	30/11/2023	39.0 (mmol/mol)	30/11/2023	52.16 (kg/m2)	30/11/2023	170	78 (mmHg)	30/11/2023	138 (mmol/L)	30/11/2023
0			140 (g/L)	26/05/2021	43.0 (mmol/mol)	26/05/2021	51.51 (kg/m2)	17/11/2023				140 (mmol/L)	26/05/2021
8			143 (g/L)	04/05/2023	48.0 (mmol/mol)	12/10/2023	51.26 (kg/m2)	13/06/2023	166	93 (mmHg)	11/09/2023	140 (mmol/L)	12/10/2023

Report generated on 1/3/2024 08:38; V2.1.0

Graphnet Transforming Care

NHSE Requirements: Early screening

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Consultant:
 NHS Number:

Latest PTL Load Date: 23/02/2024

250

PATIENTS IN COHORT

262

NO OF WAITING ENTRIES

94

MAX WEEKS ON W/L

No Current Requirement
Early Optimisation
Complex Patients
Very Complex Patients
Unclassified

Smoking Status	Alcohol Consumption	IMD Quintile	Patient Need Group	Attendances	Admissions
Current Smoker 6/22/2023		1 - Most Deprived Quintile	8 Dominant Psych Behavioral Cond	0	0
Past Smoker 9/26/2022		1 - Most Deprived Quintile	3 Low Need Adult	0	0
Current Smoker 5/20/2021	Non drinker alcohol consumption 08/02/2024	1 - Most Deprived Quintile	9 Dominant Major Chronic Cond	1	1
	Non drinker alcohol consumption 14/01/2022	1 - Most Deprived Quintile	5 MultiMorbid Med Complexity	0	0

To select more than 1 category at a time, hold down 'Ctrl' on your keyboard whilst clicking the buttons

Comorbidity	Gaps on the SCR
BMI	3,611 (46%)
Smoking	5,491 (71%)
Alcohol	6,448 (83%)
BP	2,462 (32%)

Digital Transformation: Lessons learnt

- Service transformation
- Patient safety
- Efficient use resources
- Collaboration and Culture: Primary care, Public health, Long term conditions teams in community, Frailty teams
- Operational teams, Digital teams, Clinicians
- Public Private collaboration
- Novel measures from cross speciality working – Johns Hopkins Population Health analytics, Mortality risk scores, PNG.
- Thank you