



National Cardiac Audit Programme (NCAP)

## Appendix to National Congenital Heart Disease Audit (NCHDA) Report 2025

2024/25 and 2022/25 data





## **Activity**

Monthly activity trends (countable procedures)  
by procedure type

NCHDA Monthly Activity Trends (Age Group)

NCHDA Specific Procedures

Dual Consultant Operator

Ethnicity (%)

Live Births vs CHD Procedures

## **Outcome**

Specific Procedure Funnel Plots

Antenatal Diagnosis Rates by ICB

Data Quality Index (DQI)

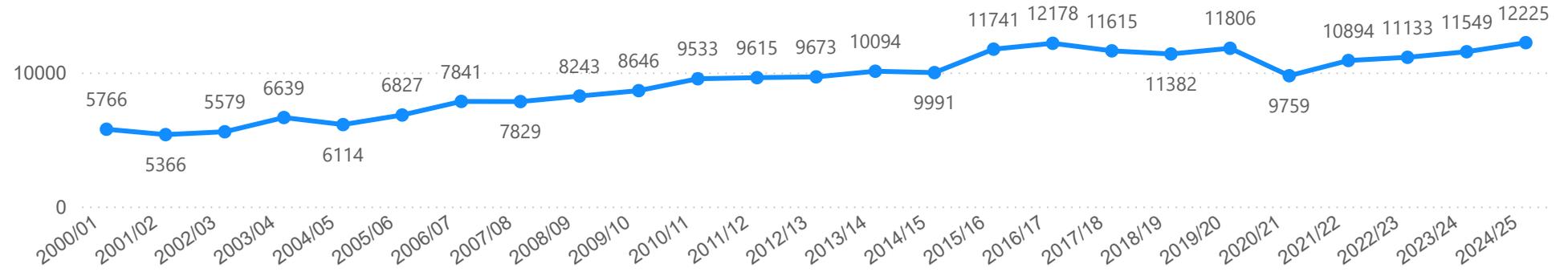
# Monthly activity trends (countable procedures) by procedure type



## Procedure Type

- Select all
- Diagnostic Catheter
- EP/PACING/ICD
- Intervention
- Surgical

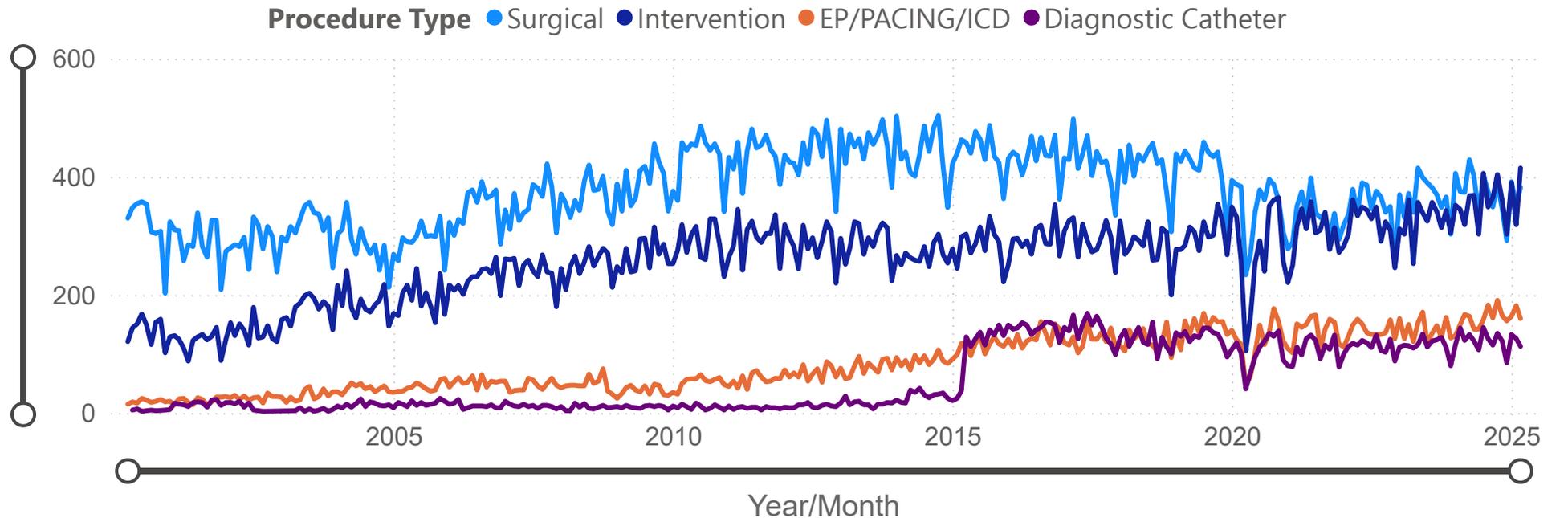
## Yearly Countable Procedures



## Hospital

All

## Monthly Activity by Procedure Type



**Note:** Diagnostic catheter data were collected from most centres from 2015/16 onwards. The data collected before 2015/16 are therefore incomplete.

# Monthly activity trends (countable procedures) by age group



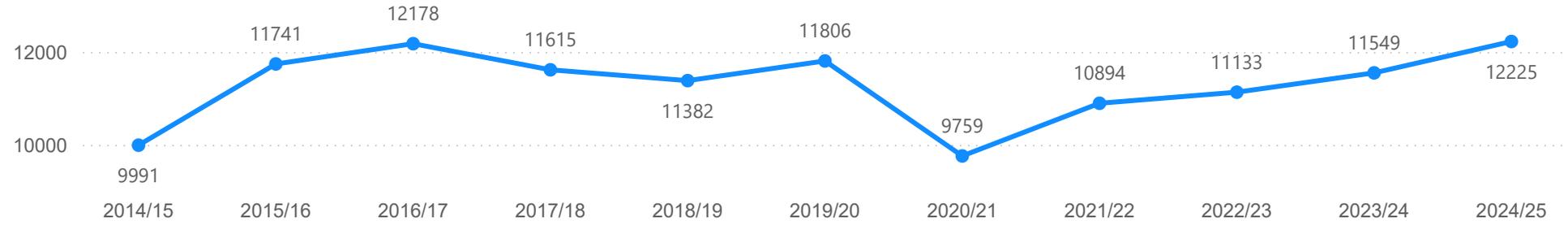
## Age Group

- Select all
- adult
- child
- infant
- neonate

## Hospital

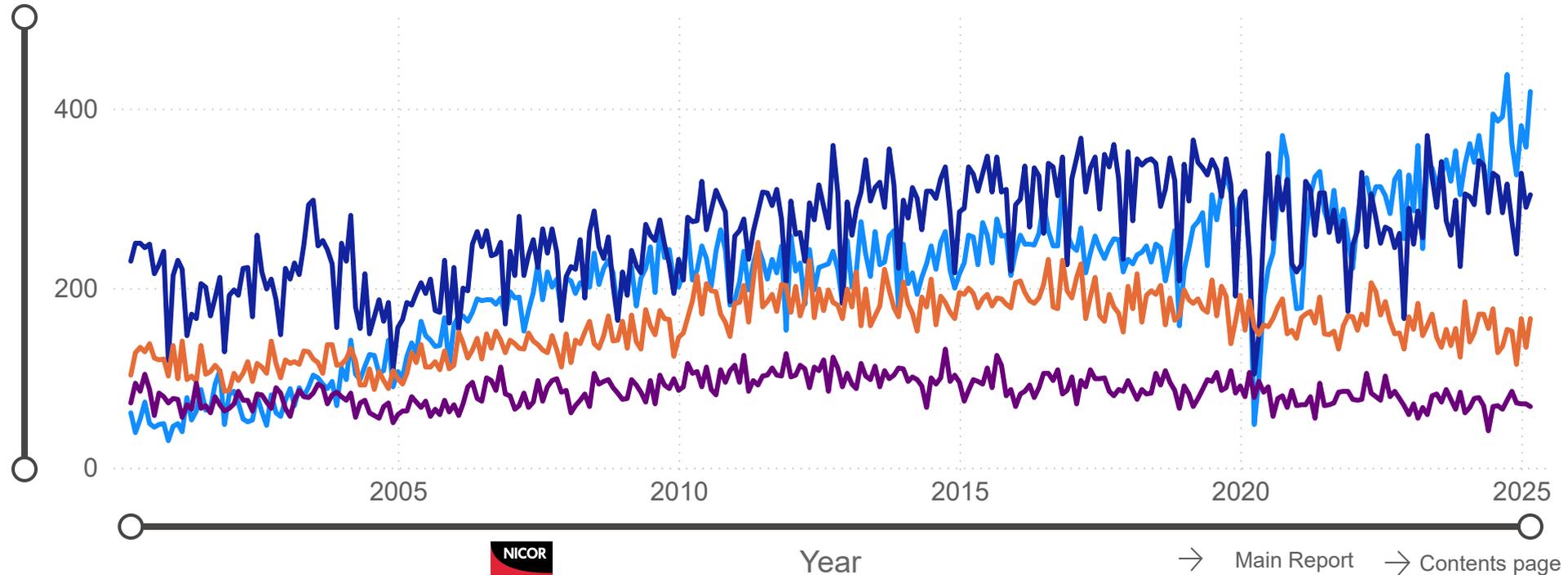
- Select all
- ACH. Liverpool Alder Hey Hospital
- AHM. Manchester BMI Alexandra ...
- BAS. Basildon Essex Cardiothoraci...
- BCH. Birmingham Children's Hosp...
- BHL. Liverpool Heart and Chest H...
- BRC. Bristol Royal Hospital for Chil...
- CHN. Nottingham City Hospital
- FRE. Newcastle Freeman Hospital
- GEO. London St George's Hospital
- GHB. Spire Bristol Hospital
- GOS. London Great Ormond Stree...

## Yearly Countable Procedures



## Monthly Activity (Age Group)

Age group ● Adult ● Child ● Infant ● Neonate



# Dual consultant operator procedures in 2024/25



# 877

**Procedures with Dual Consultant Operators**

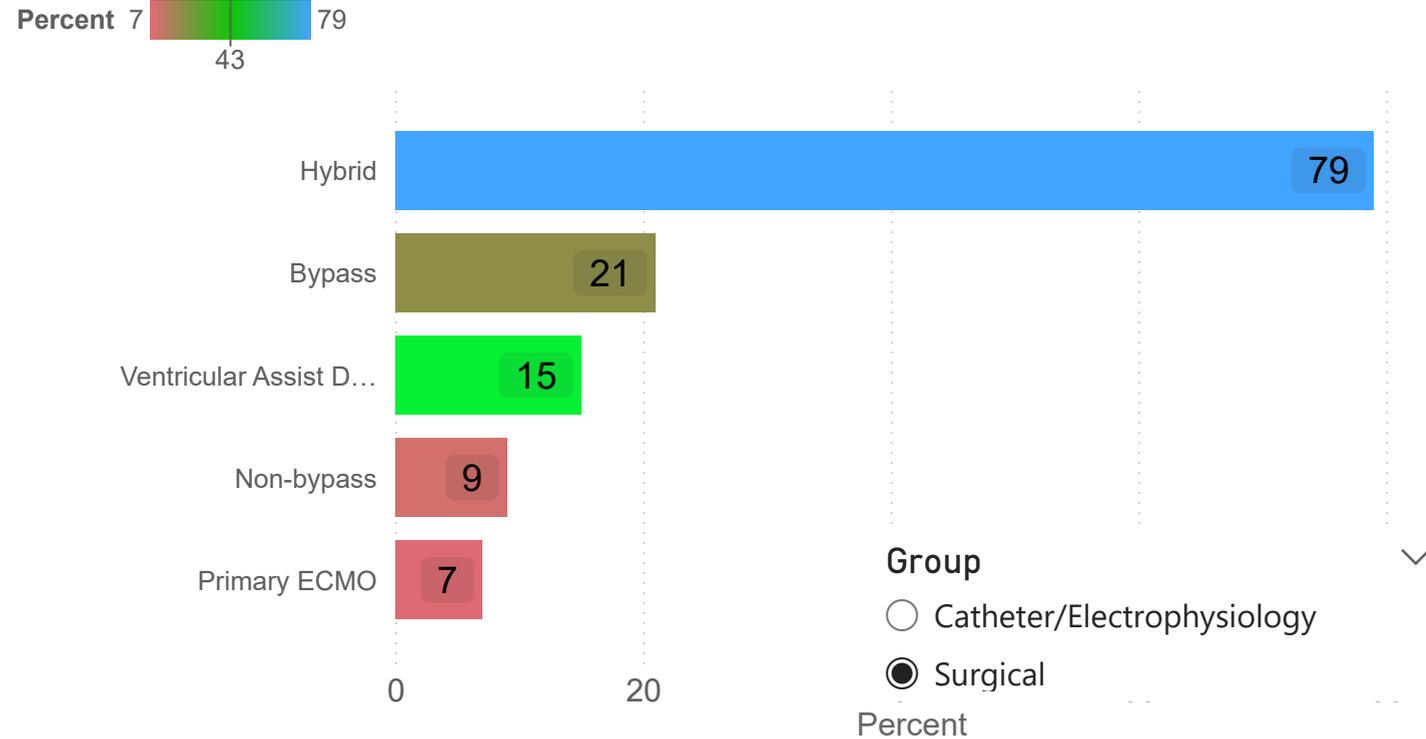
# 4443

**Countable Procedures**

# 20%

**Percent**

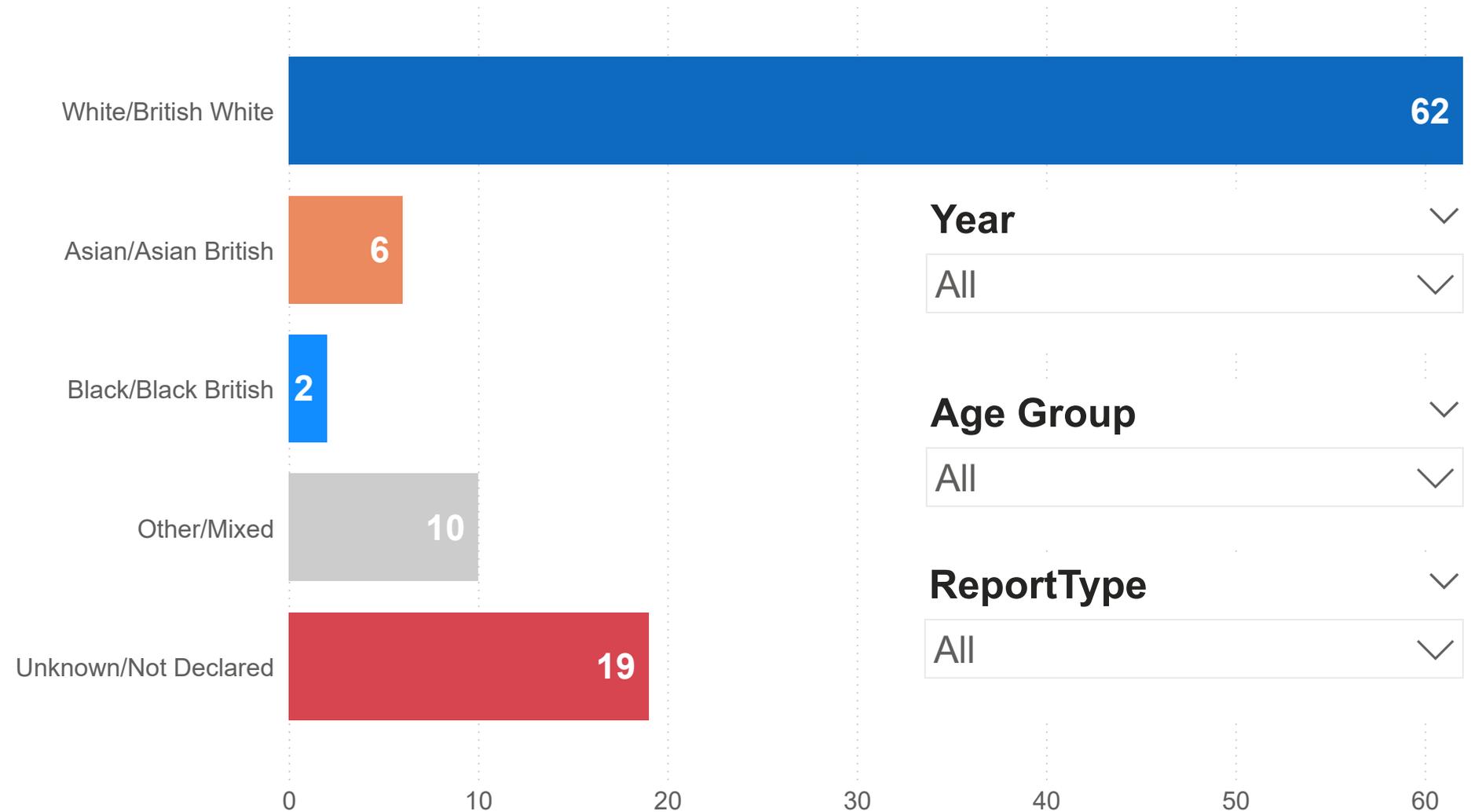
*Note: Hybrid procedures require input by both a consultant surgeon and consultant catheter interventionist due to case or procedure complexity, such as atypical coronary anatomy when undertaking an arterial switch procedure, or with transcatheter valve implantation. The reason for the discrepancy (79% when one expects 100%) is likely to be a data entry error: either the procedure has been misclassified as hybrid or the procedure did not involve a consultant cardiologist but rather just a highly trained junior doctor. Going forwards the NCHDA will ensure this discrepancy is addressed by the centres at the time of data entry, such that the software brings up an alert in this scenario.*



Group	Procedure Type	Countable Procedure	Dual consultant operator	Perce
Surgical	Bypass	3622	771	2
Surgical	Non-bypass	669	66	9
Surgical	Primary ECMO	94	7	7
Surgical	Hybrid	38	30	7
Surgical	Ventricular Assist Device (VAD)	20	3	1

# Percent of all procedures with recorded ethnicity of the patient

## Percent of all procedures by ethnicity (%)



All hospitals should include the ethnicity of the patient to allow an assessment of equitable treatment.

**Year**

All

**Age Group**

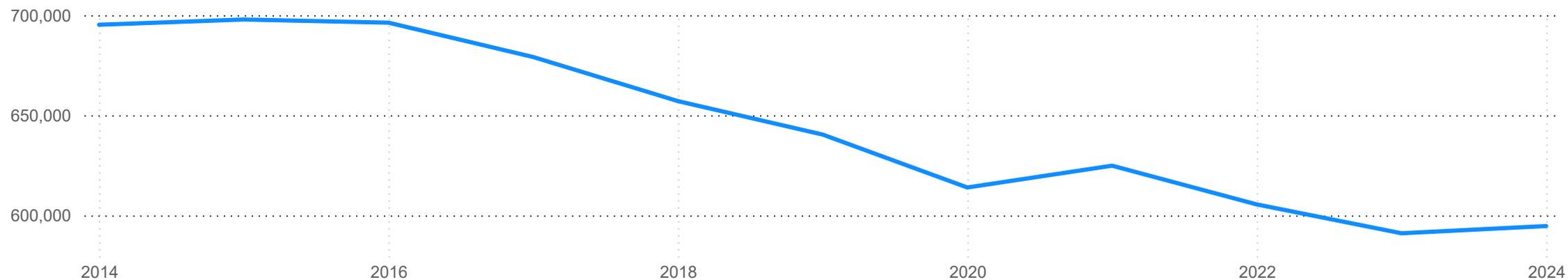
All

**ReportType**

All

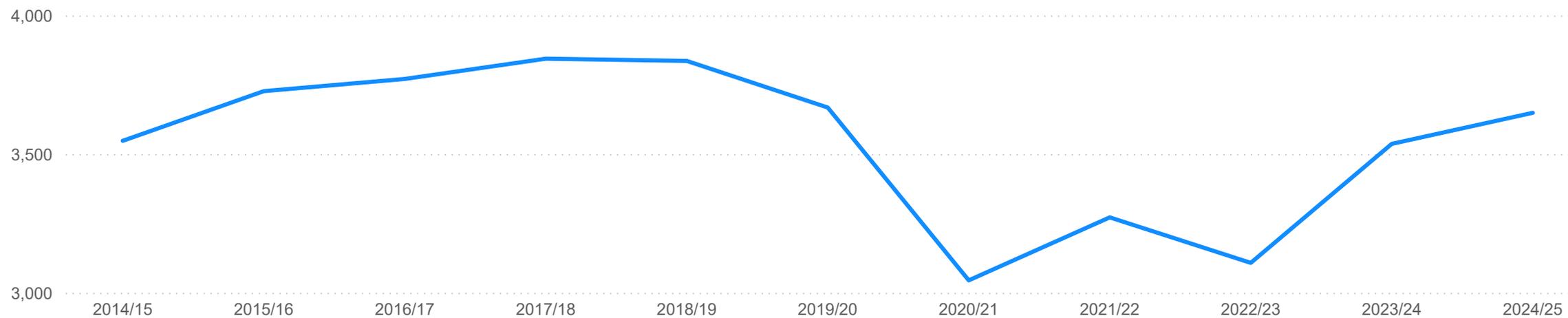


## Number of Live Births by Year



Source: [Births in England and Wales from the Office for National Statistics](#)

## Paediatric Yearly Countable Procedures



# Specific procedure activity over 12 years



## Specific Procedure

Procedures

## Hospital

All

## Age Group

Select all

adult

child

infant

neonate

## Year/Month

Select all

2000/01

2001/02

2002/03

2003/04

Specific Procedure	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
<b>Anomalous coronary artery origin or course (eg ALCAPA) repair</b>	16	14	29	38	27	25
<b>Aortic root replacement (non-Ross)</b>	97	98	93	96	97	97
<b>Aortic valve repair</b>	70	93	88	55	70	41
<b>Aortic valve replacement (non-Ross)</b>	148	137	145	121	137	190
<b>Aortopulmonary (AP) window repair</b>	07	11	12	06	11	12
<b>Arterial switch and aorta arch repair</b>	24	20	17	17	12	18
<b>Arterial switch and ventricular septal defect (VSD) repair</b>	46	42	48	46	41	30
<b>Arterial switch procedure</b>	100	129	122	114	117	110
<b>Atrial septal defect (ASD) closure - surgical</b>	267	244	257	239	229	236
<b>Total</b>	<b>8,85x</b>	<b>10,54x</b>	<b>10,92x</b>	<b>10,305</b>	<b>10,08x</b>	<b>10,42x</b>

# Specific procedure funnel plots for 2022/23 to 2024/25



## Procedure Type

- Electrophysiology
- Surgical
- Transcatheter

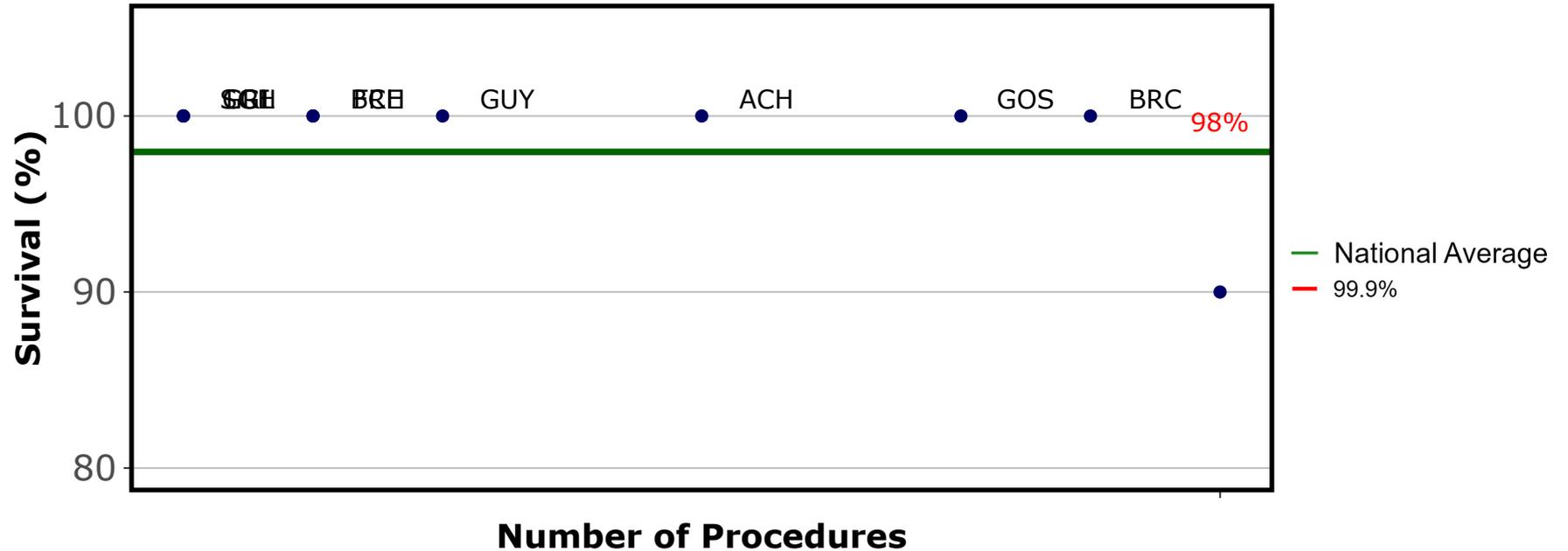
## Specific Procedure

- Anomalous coronary artery origin or c...
- Aortic root replacement (non-Ross)
- Aortic valve repair
- Aortic valve replacement (non-Ross)
- Aortopulmonary (AP) window repair
- Arterial switch and aorta arch repair
- Arterial switch and ventricular septal d...

## Age Group

- Paediatric
- Adult

[Click here to Interactive SP Funnels](#)



ProcedureType	Hospital Code	Hospital Name	Specific Procedure	Number of Procedures	Survival
Surgical	BCH	Birmingham Children's Hospital	common_arterial_trunk_repair	3	100.00
Surgical	BRC	Bristol Royal Hospital for Children and Bristol Heart Institute	common_arterial_trunk_repair	9	100.00
Surgical	OLS	Dublin Our Lady's Children's Hospital	common_arterial_trunk_repair	10	90.00
Surgical	GUY	Guy's Hospital	common_arterial_trunk_repair	4	100.00
Surgical	LGI	Leeds General Infirmary	common_arterial_trunk_repair	2	100.00
Surgical	GRL	Leicester Glenfield Hospital	common_arterial_trunk_repair	2	100.00

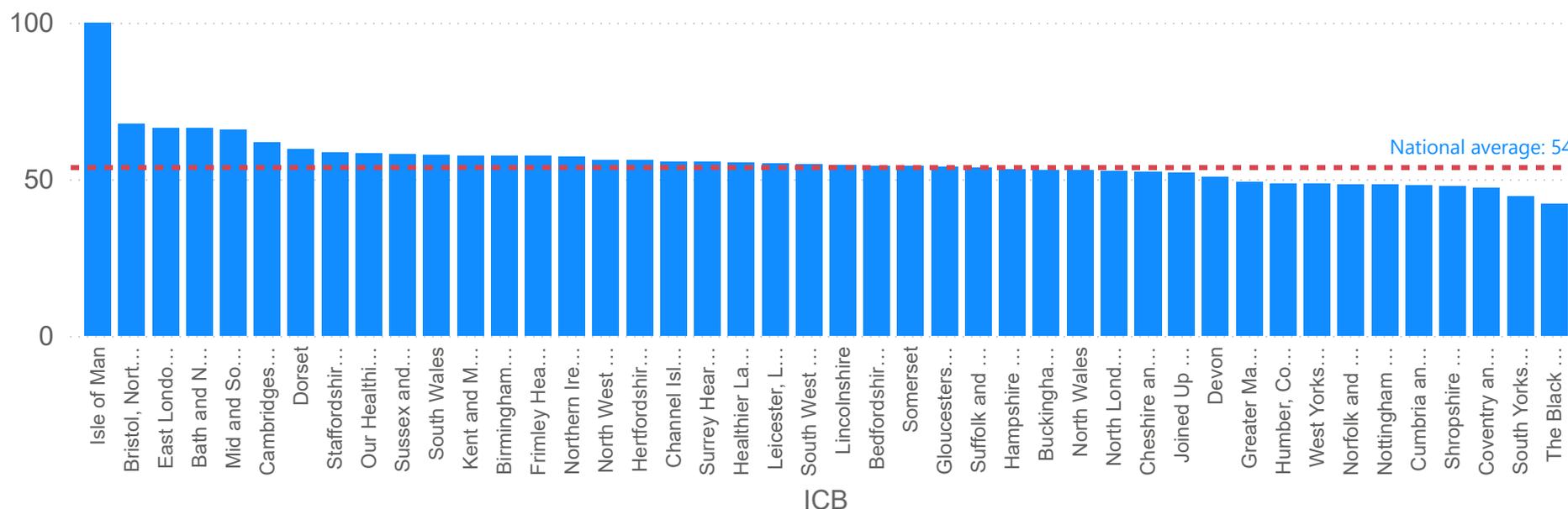
# Antenatal diagnosis rates by Integrated Care Board (ICB) in 2024/25



## Lesion

- Complete atrioventricular septa...
- Hypoplastic left heart syndrom...
- Overall Diagnosis
- Tetralogy of Fallot
- Transposition of the great arteri...

Percentage of cases undergoing a procedure in the first year with an antenatal diagnosis



**Note:** 'Overall Diagnosis' means for all infants requiring a procedure in the first year of life.

Lesion	ICB	ICB Name	Numbers diagnosed	Percent
Overall	Channel Islands	Channel Islands	5	55.6
Overall	Isle of Man	Isle of Man	4	100.0
Overall	North Wales	North Wales	24	52.7
Overall	Northern Ireland	Northern Ireland	99	57.2
Overall	QE1	Healthier Lancashire and South Cumbria	73	55.3
Overall	QF7	South Yorkshire and Bassetlaw	57	44.5
Overall	QGH	Herefordshire and Worcestershire	19	40.4

# Data Quality Index (DQI)



## Hospital Type

- Adult Only  
 Paediatric/Mixed

## Year

2024/25

Hospital Name	Hospital Code	Data Quality Index (%)	Year
Belfast Royal Victoria	RVB		2024/25
Birmingham Children's Hospital	BCH	99.50	2024/25
Bristol Royal Children's Hospital	BRC	99.50	2024/25
Dublin, Our Lady's Hospital	OLS	98.00	2024/25
Leeds General Infirmary	LGI	98.75	2024/25
Leicester Glenfield Hospital	GRL	96.00	2024/25
Liverpool Alder Hey Childrens Hospital	ACH	99.00	2024/25
London Evelina Childrens Hospital	GUY/GSTT	94.50	2024/25
London Great Ormond Street	GOS	99.75	2024/25
London Harley Street Clinic	HSC		2024/25
London Royal Brompton & Harefield	NHB		2024/25
Newcastle Freeman	FRE	99.60	2024/25
Southampton Wessex Cardiothoracic Centre	SGH	97.00	2024/25

The table shows the coloured Data Quality Indicator (DQI) for participating paediatric and mixed paediatric-adult centres. Centres that score more than 98% overall are of an extremely high standard, green is good, amber is acceptable, and red is a cause for concern. If a centre has not submitted data to NCHDA, the centre will not show up in the data table for that financial year.

Overall DQI scores remain very good.

It is recommended that each Level 1 provider of congenital cardiac services meets the recommended staffing levels specified in the NHS England New CHD Review 2016/17.

*Note: Belfast Royal Victoria (RVB) hospital became an ACHD centre in 2017/18;  
 London Harley Street Clinic (HSC) has submitted no data since 2018/19;  
 Manchester Royal Infirmary (MRI) service has transferred since 2017/18;  
 Liverpool Heart & Chest Hospital (BHL) had no service from 2015/16 to 2017/18;  
 London Royal Brompton (NHB) has merged with London Evelina to GUY/GSTT in 2022/23*

	<90
	90 to <95
	95 to <98
	>=98