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National Cardiac Audit Programme (NCAP)

## Appendix to National Adult Cardiac Surgery Audit (NACSA) Report 2025

**2024/25 and 2022/25 data**





NACSA activity	Surgical incision (number)	Percent (%) of bypass grafts performed in isoCABG
NACSA hospital level activity	Surgical incision (death)	Number of having IMA (internal mammary artery) and LAD coronary artery for isoCABG
NACSA hospital level mortality	isoAVR implant type	Number of graft conduit (1 to 12) having IMA (internal mammary artery) and LAD coronary artery for isoCABG
Hospital activity by procedure type	isoMVR implant type	
NACSA waiting time	Consultant activity	Percent (%) of number of graft conduit (1 to 12) having IMA (internal mammary artery) and LAD coronary artery for isoCABG
Need for a return to theatre for any cause	Quorate preop MDT	
Reoperation for bleeding	Blood transfusion	Other procedure (cases)
Deep sternal wound infection	Dual consultant	Other procedure (deaths)
Any new post-operative CVA/TIA	Consultant and trainee in COP	Other procedure (mortality)
Kidney failure	Cardiopulmonary bypass usage for isolated CABG	30 Days readmission rate (%)
EuroSCORE II	Off Pump coronary artery bypass	Readmission (%) vs length of days
Incision type (number)	Number of bypass grafts performed in isoCABG	Patient ethnicity (%)
		Glossary of abbreviations
		Hospital names/codes

# UK, nation and hospital level activity (year and monthly)



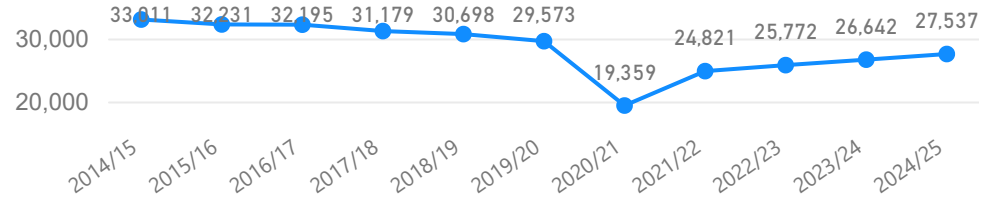
## Nation

- Select all
- England
- Northern Ireland
- Wales

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest H...
- BNH. Nuffield Health at St Bartholo...
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital
- HH. Harefield Hospital
- HHW. Wellington Hospital North
- HSC. Harley Street Clinic
- KCH. King's College Hospital
- LBH. London Bridge Hospital
- LGI. Leeds General Infirmary

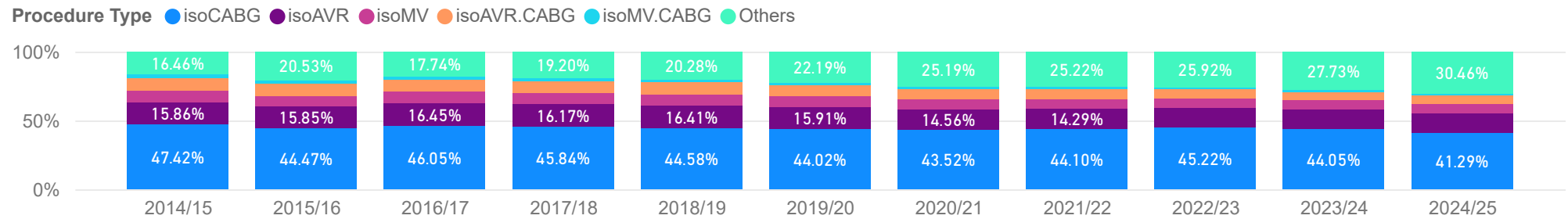
## Activity Level



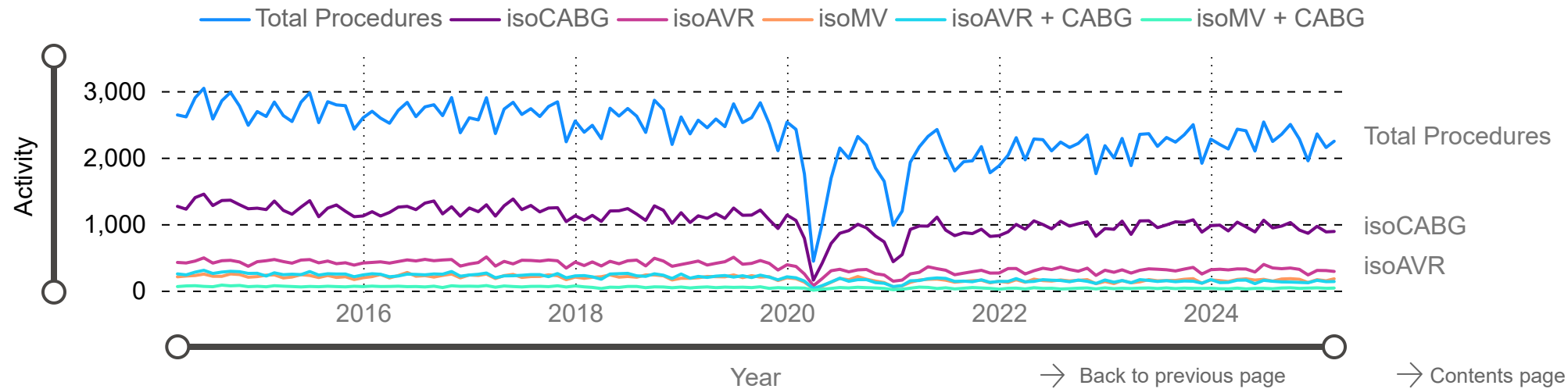
## Nation

Nation	2014/15	2015/16	2016/17	2017/18	2018/19
England	30,782	29,949	29,991	29,032	28,647
Northern Ireland	864	917	907	878	762
Wales	1,365	1,365	1,297	1,269	1,289
<b>Total</b>	<b>33,011</b>	<b>32,231</b>	<b>32,195</b>	<b>31,179</b>	<b>30,698</b>

## ACS Activity Bar Chart (%)



## ACS Monthly Activity



# UK, nation and hospital level activity



## Nation

- Select all
- England
- Northern Ireland
- Wales

## ProcedureType

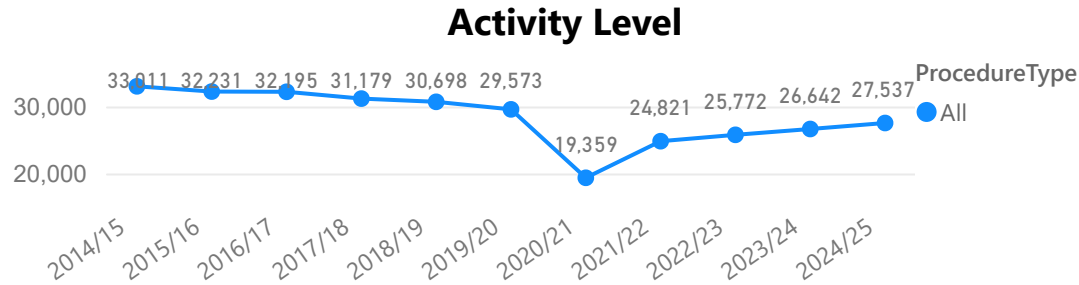
- All
- AnyTricuspid
- EmergencyMajorA...
- isoAVR
- isoAVR+CABG
- isoCABG
- isoMV
- isoMV repair
- isoMV+CABG
- isoMVR+CABG
- isoTricuspid
- LA\_Appendage\_O...
- MajorAortic

## Hospital

All

## Financial Year

All



## Nation

2014/15 2015/16 2016/17 2017/18 2018/19

England	30,782	29,949	29,991	29,032	28,647
Northern Ireland	864	917	907	878	762
Wales	1,365	1,365	1,297	1,269	1,289
<b>Total</b>	<b>33,011</b>	<b>32,231</b>	<b>32,195</b>	<b>31,179</b>	<b>30,698</b>

## Hospital

2014/15 2015/16 2016/17 2017/18 2018/19 2019/20 2020/21 2021/22 2022/23 2023/24

ANT. Spire St Anthony's Hospital	350	258	108	98	87	59	13	56	24	53
BAL. Barts and the London	940	1,654	1,837	1,933	2,124	2,001	1,461	1,728	1,806	1,933
BAS. Basildon Hospital	911	909	890	750	819	714	507	697	756	764
BHL. Liverpool Heart and Chest Hospital	1,935	1,908	2,067	2,040	1,891	1,765	1,134	1,627	1,537	1,490
BNH. Nuffield Health at St Bartholomew Hospital										
BRI. Bristol Royal Infirmary	1,407	1,315	1,308	1,257	1,331	1,186	911	1,053	1,005	1,070
CBS. Spire Southampton Hospital	449	403	407	401	336	612	216	364	347	317
CCL. Cleveland Clinic London								129	176	
CHH. Castle Hill Hospital	655	660	696	627	788	837	423	561	613	676
CHN. Nottingham City Hospital	572	550	535	603	611	548	471	502	457	555
CRO. Cromwell Hospital		2	33	21	33	15	23	9	16	90
FRE. Freeman Hospital	737	743	735	712	703	611	553	524	500	539
GEO. St George's Hospital	843	898	1,102	1,005	717	670	346	517	509	508
GHB. Spire Bristol Hospital										18
GRL. Glenfield Hospital	1,177	1,091	1,115	1,068	1,051	974	554	776	847	850
HAM. Hammersmith Hospital	619	626	591	600	620	619	327	451	457	487
<b>Total</b>	<b>33,011</b>	<b>32,231</b>	<b>32,195</b>	<b>31,179</b>	<b>30,698</b>	<b>29,573</b>	<b>19,359</b>	<b>24,821</b>	<b>25,772</b>	<b>26,642</b>

# UK, nation and hospital crude mortality rate % (by procedure)



## Nation

- Select all
- England
- Northern Ireland
- Wales

## ProcedureType

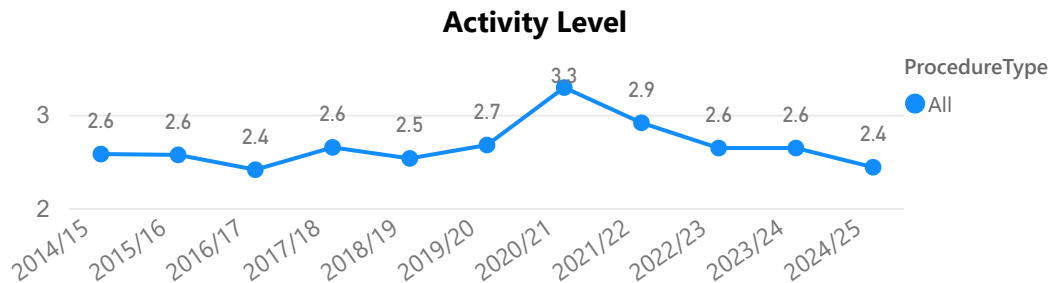
- All
- AnyTricuspid
- EmergencyMajorA...
- isoAVR
- isoAVR+CABG
- isoCABG
- isoMV
- isoMV repair
- isoMV+CABG
- isoMVR+CABG
- isoTricuspid
- LA\_Appendage\_O...
- MajorAortic

## Hospital

All

## Financial Year

All



Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
England	2.58	2.55	2.37	2.65	2.54	2.67	3.29	2.91	2.64	2.64	2.44
Northern Ireland	1.97	1.85	1.54	2.28	1.05	1.58	1.65	1.46	1.98	1.59	1.59
Wales	3.00	3.37	4.01	2.92	3.18	3.06	2.31	3.85	2.84	3.75	2.50
<b>Total</b>	<b>2.58</b>	<b>2.57</b>	<b>2.41</b>	<b>2.65</b>	<b>2.53</b>	<b>2.67</b>	<b>3.29</b>	<b>2.91</b>	<b>2.64</b>	<b>2.64</b>	<b>2.44</b>

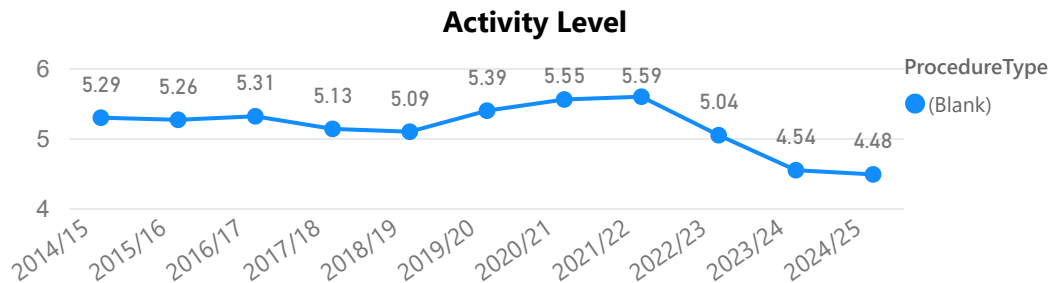
Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
WYT. Wythenshawe Hospital	1.47	1.14	1.56	2.22	2.07	2.17	0.90	1.83	1.41	1.09	1.68
WAL. University Hospital Coventry	2.89	3.24	2.95	2.59	5.02	4.93	2.45	3.86	2.98	4.56	1.87
VIC. Blackpool Victoria Hospital	3.00	1.98	1.94	2.69	2.81	2.85	2.61	2.53	2.20	2.52	1.62
UHW. University Hospital of Wales	2.54	2.66	3.77	2.61	2.20	2.15	1.93	1.78	1.69	1.68	2.26
UCL. University College Hospital	2.63	2.63									
STO. University Hospital of North Staffordshire	2.58	2.40	2.30	3.58	3.01	2.38	4.41	4.08	1.84	2.00	1.71
STH. St Thomas Hospital	2.32	2.48	2.25	2.51	1.87	2.81	3.62	2.52	3.11	1.76	2.02
SGH. Southampton General Hospital	2.48	1.22	2.14	1.74	1.72	1.78	2.20	2.43	3.03	2.02	2.26
SCM. James Cook University Hospital	2.57	3.23	2.52	2.67	3.06	2.14	2.31	2.15	2.75	2.27	1.38
RVB. Royal Victoria Hospital	1.97	1.85	1.54	2.28	1.05	1.62	2.37	2.28	2.62	1.37	2.02
RSC. Royal Sussex County Hospital	3.08	2.16	1.67	2.15	0.94	2.53	5.07	3.33	2.69	2.44	1.85
RAD. John Radcliffe Hospital	2.79	2.17	2.20	1.44	1.58	1.16	1.65	3.45	1.46	1.98	1.59
QEB. Queen Elizabeth Hospital	3.92	3.55	2.45	3.09	2.55	2.45	4.97	4.98	3.81	3.53	3.11
PLY. Derriford Hospital	2.36	3.12	2.08	2.77	2.27	1.98	2.37	2.16	1.67	2.20	2.45
PAP. Papworth Hospital	1.85	2.40	2.15	2.91	2.28	3.04	3.52	2.01	3.22	3.05	2.30
NHB. Royal Brompton Hospital	2.11	2.77	2.04	3.53	2.99	2.83	2.36	1.74	2.02	2.06	2.34
NGS. Northern General Hospital	1.94	3.06	2.91	2.72	2.31	3.85	2.83	4.17	2.84	3.75	2.50
<b>Total</b>	<b>2.58</b>	<b>2.57</b>	<b>2.41</b>	<b>2.65</b>	<b>2.53</b>	<b>2.67</b>	<b>3.29</b>	<b>2.91</b>	<b>2.64</b>	<b>2.64</b>	<b>2.44</b>

# Numbers and percent (%) of patients undergoing redo cardiac surgery



## Nation

- Select all
- England
- Northern Ireland
- Wales



Nation	2014/15	2015/16	2016/17	2017/18	2018/19
England	5.31	5.42	5.38	5.21	5.18
Northern Ireland	5.56	3.27	4.85	5.92	5.91
Wales	4.47	3.15	3.93	2.60	2.56
<b>Total</b>	<b>5.29</b>	<b>5.26</b>	<b>5.31</b>	<b>5.13</b>	<b>5.09</b>

## ProcedureType

All

## Number or Perc...

- Number
- Percent(%)

## Hospital

All

## Financial Year

All

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
ANT. Spire St Anthony's Hospital	5.14	6.59	6.48	7.14	6.90	8.47				1.89
BAL. Barts and the London	4.15	6.11	6.64	6.31	5.79	5.35	5.54	7.52	6.92	7.65
BAS. Basildon Hospital	1.10	3.85	3.15	2.40	2.20	2.10	3.35	3.01	3.04	3.01
BHL. Liverpool Heart and Chest Hospital	7.91	7.39	7.16	6.37	5.87	4.48	5.03	4.98	4.55	6.68
BRI. Bristol Royal Infirmary	6.75	6.39	6.96	7.40	6.16	8.52	7.57	9.12	7.76	7.91
CBS. Spire Southampton Hospital	3.34	2.98	1.47	1.50	0.89	0.33	0.46	0.55	0.58	0.32
CCL. Cleveland Clinic London									6.98	10.8
CHH. Castle Hill Hospital	4.58	4.55	4.74	5.10	3.55	2.63	3.07	3.21	2.94	3.40
CHN. Nottingham City Hospital	5.24	6.36	5.42	5.80	5.56	6.75	3.18	5.38	4.60	3.06
CRO. Cromwell Hospital				4.76						2.22
FRE. Freeman Hospital	7.19	4.85	5.17	3.37	4.55	5.73	7.41	4.96	7.00	5.75
GEO. St George's Hospital	5.10	5.23	5.72	3.98	4.04	3.13	5.20	4.45	3.73	3.15
GHB. Spire Bristol Hospital										11.1
GRL. Glenfield Hospital	5.61	4.86	6.01	4.96	4.85	5.75	6.14	4.90	2.95	3.88
HAM. Hammersmith Hospital	3.39	3.51	3.05	4.50	4.03	5.33	4.28	7.10	4.16	3.29
HH. Harefield Hospital	6.08	7.64	7.10	6.60	6.39	6.45	7.58	6.93	5.32	4.55
HHW. Wellington Hospital North	8.26	4.96	9.68	5.43						
<b>Total</b>	<b>5.29</b>	<b>5.26</b>	<b>5.31</b>	<b>5.13</b>	<b>5.09</b>	<b>5.39</b>	<b>5.55</b>	<b>5.59</b>	<b>5.04</b>	<b>4.54</b>

# Hospital activity by procedure type



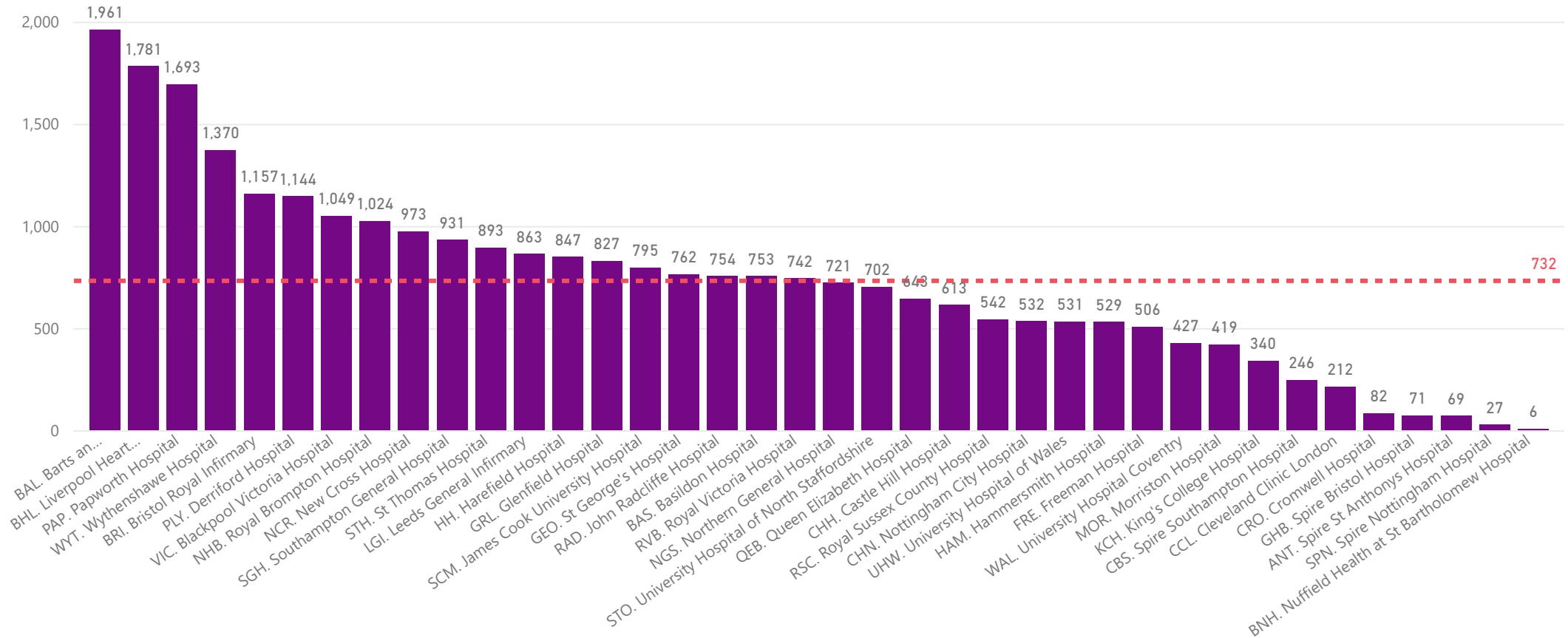
Financial Year ▼

2024/25 ▼

ProcedureType ▼

- All
- AnyTricuspid
- EmergencyMajorA...
- isoAVR
- isoAVR+CABG
- isoCABG
- isoMV
- isoMV repair
- isoMV+CABG
- isoMVR+CABG
- isoTricuspid
- LA\_Appendage\_O...
- MajorAortic

ProcedureType ● All



# Waiting times for surgery (from angiogram) by procedure



## Urgent Status

- Elective
- Urgent

## ProcedureType

- All
- AnyisoTricuspid
- isoAVR
- isoAVR+CABG
- isoCABG
- isoMV
- isoMV+CABG
- isoTricuspid
- LA\_Appendage\_Occlu...
- MajorAortic

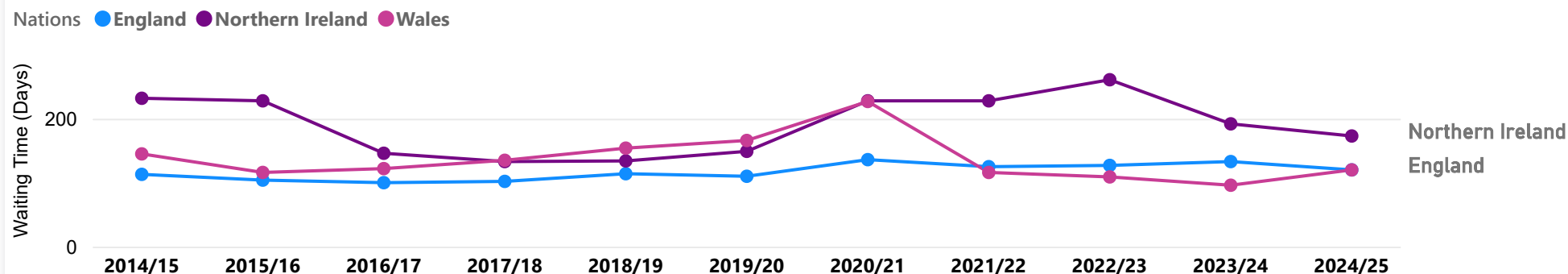
## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

Country	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
UK	116	105	102	105	116	111

Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
England	113	104	100	102	114	110
Northern Ireland	232	228	146	133	134	149
Wales	145	116	122	135	154	166

Nation Level Waiting Time (Days) over Years



Hospital	Data Completeness(%)
ANT. Spire St Anthonys Hospital	79%
BAL. Barts and the London	47%
BAS. Basildon Hospital	95%
BHL. Liverpool Heart and Chest Hospital	55%
BNH. Nuffield Health at St Bartholomew Hospital	100%
BRI. Bristol Royal Infirmary	68%
CBS. Spire Southampton Hospital	23%
CCL. Cleveland Clinic	11%

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
WYT. Wythenshawe Hospital	112	127	133	137	137	121
WAL. University Hospital Coventry	120	114	100	78	94	95
VIC. Blackpool Victoria Hospital	107	79	90	110	133	146
UHW. University Hospital of Wales	145	124	120	137	167	180
UCL. University College Hospital	126	140				
STO. University Hospital of North Staffordshire	82	76	80	85	113	82
STH. St Thomas Hospital	87	83	98	107	127	105
SPN. Spire Nottingham						

# Rate (%) of return to theatre following CABG (any reason)



## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Barnabas
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital
- HH. Harefield Hospital
- HHW. Wellington Hospital North
- HSC. Harley Street Clinic
- KCH. King's College Hospital

Country	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
UK	3.06	2.76	2.72	2.88	2.65	2.65

Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
England	2.95	2.66	2.69	2.80	2.63	2.35	2.35
Northern Ireland	6.16	5.40	4.41	6.69	4.14	1.37	1.37
Wales	3.93	3.36	2.29	2.45	2.07	1.05	2.07

Hospital	Data Completeness
WYT. Wythenshawe Hospital	63
WAL. University Hospital Coventry	98
VIC. Blackpool Victoria Hospital	100
UHW. University Hospital of Wales	92
UCL. University College Hospital	100
STO. University Hospital of North Staffordshire	99
STH. St Thomas Hospital	98
SPN. Spire Nottingham Hospital	100
SGH. Southampton General Hospital	100
SCM. James Cook University Hospital	100
RVB. Royal Victoria Hospital	100
RSC. Royal Sussex County Hospital	96
<b>Total</b>	<b>94</b>

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
WYT. Wythenshawe Hospital	0.98	0.37	0.35	0.20	0.69	0.69
WAL. University Hospital Coventry	3.60	3.67	3.44	2.83	4.46	4.46
VIC. Blackpool Victoria Hospital	5.26	3.51	5.03	4.80	2.65	2.65
UHW. University Hospital of Wales	1.72	2.58	1.55	3.49	1.23	1.23
UCL. University College Hospital	1.34					
STO. University Hospital of North Staffordshire	4.99	5.31	6.08	3.98	2.34	2.34
STH. St Thomas Hospital	1.57	2.44	0.89	1.77	1.32	1.32
SGH. Southampton General Hospital	3.21	2.78	3.29	2.68	2.63	2.63
SCM. James Cook University Hospital	4.63	3.21	3.20	5.18	2.12	2.12
RVB. Royal Victoria Hospital	6.16	5.40	4.41	6.69	4.14	4.14
RSC. Royal Sussex County Hospital	3.02	1.63	3.22	2.81	4.59	4.59
<b>Total</b>	<b>3.06</b>	<b>2.76</b>	<b>2.72</b>	<b>2.88</b>	<b>2.65</b>	<b>2.65</b>

# Rate (%) of return to theatre following CABG (for bleeding/tamponade)



## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest ...
- BNH. Nuffield Health at St Bartho...
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital
- HH. Harefield Hospital
- HHW. Wellington Hospital North
- HSC. Harley Street Clinic
- KCH. King's College Hospital

Country	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
UK	2.65	2.29	2.27	2.43	2.13	1.85

Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
England	2.53	2.19	2.26	2.35	2.13	1.85
Northern Ireland	5.91	4.37	3.86	6.08	3.45	1.37
Wales	3.31	3.36	1.53	2.25	1.66	0.84

Hospital	Data Completeness
WYT. Wythenshawe Hospital	63
WAL. University Hospital Coventry	98
VIC. Blackpool Victoria Hospital	100
UHW. University Hospital of Wales	92
UCL. University College Hospital	100
STO. University Hospital of North Staffordshire	99
STH. St Thomas Hospital	98
SPN. Spire Nottingham Hospital	100
SGH. Southampton General Hospital	100
SCM. James Cook University Hospital	100
RVB. Royal Victoria Hospital	100
RSC. Royal Sussex County	96
<b>Total</b>	<b>94</b>

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19
ANT. Spire St Anthonys Hospital	0.00	1.80	3.77	0.00	2.13
BAL. Barts and the London	1.60	2.26	2.77	1.27	2.28
BAS. Basildon Hospital	1.46	1.73	0.81	1.59	4.26
BHL. Liverpool Heart and Chest Hospital	4.52	4.51	3.10	1.64	2.50
BNH. Nuffield Health at St Bartholomew Hospital					
BRI. Bristol Royal Infirmary	1.84	2.04	0.78	3.28	2.48
CBS. Spire Southampton Hospital	2.74	0.00	1.33	5.26	0.00
CCL. Cleveland Clinic London					
CHH. Castle Hill Hospital	1.90	3.04	3.00	3.13	2.18
CHN. Nottingham City Hospital	2.69	1.83	2.48	1.19	1.14
CRO. Cromwell Hospital		0.00	0.00	0.00	0.00
FRE. Freeman Hospital	2.60	1.06	1.61	1.11	2.01
GEO. St George's Hospital	2.34	1.87	3.35	3.28	3.58
<b>Total</b>	<b>2.65</b>	<b>2.29</b>	<b>2.27</b>	<b>2.43</b>	<b>2.14</b>

# Rate (%) of deep sternal wound infection (DSWI) following CABG (requiring surgery)



## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest...
- BNH. Nuffield Health at St Bart...
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital
- HH. Harefield Hospital

Country	2014/15	2015/16	2016/17	2017/18	2018/19
UK	0.34	0.28	0.26	0.29	0.32

Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
England	0.32	0.28	0.25	0.26	0.32	0.26	0.32
Northern Ireland	0.74	0.00	0.00	1.22	0.34	0.00	0.00
Wales	0.62	0.40	0.57	0.61	0.21	0.00	0.00

Hospital	Data Completeness
ANT. Spire St Anthonys Hospital	98
BAL. Barts and the London	97
BAS. Basildon Hospital	93
BHL. Liverpool Heart and Chest Hospital	100
BNH. Nuffield Health at St Bartholomew Hospital	80
BRI. Bristol Royal Infirmary	100
CBS. Spire Southampton Hospital	100
CCL. Cleveland Clinic London	94
CHH. Castle Hill Hospital	100
CHN. Nottingham City Hospital	100
CRO. Cromwell Hospital	98
FRE. Freeman Hospital	100
GEO. St George's Hospital	100
GHB. Spire Bristol Hospital	91
GRL. Glenfield Hospital	94
HAM. Hammersmith Hospital	94
HH. Harefield Hospital	94
<b>Total</b>	<b>94</b>

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
ANT. Spire St Anthonys Hospital	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BAL. Barts and the London	0.00	0.14	0.48	0.69	0.00	0.00	0.00
BAS. Basildon Hospital	0.21	0.25	0.00	0.00	0.00	0.00	0.00
BHL. Liverpool Heart and Chest Hospital	0.00	0.11	0.00	0.00	0.00	0.00	0.00
BNH. Nuffield Health at St Bartholomew Hospital	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRI. Bristol Royal Infirmary	0.31	0.19	0.00	0.21	0.00	0.00	0.00
CBS. Spire Southampton Hospital	0.00	0.79	0.67	0.00	0.00	0.00	0.00
CCL. Cleveland Clinic London	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CHH. Castle Hill Hospital	0.81	0.00	0.00	0.00	0.00	0.00	0.00
CHN. Nottingham City Hospital	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CRO. Cromwell Hospital	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FRE. Freeman Hospital	0.37	1.41	0.40	1.11	0.00	0.00	0.00
GEO. St George's Hospital	1.40	0.62	0.56	0.19	0.00	0.00	0.00
GHB. Spire Bristol Hospital	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.34</b>	<b>0.28</b>	<b>0.26</b>	<b>0.29</b>	<b>0.32</b>	<b>0.26</b>	<b>0.32</b>

# Rate (%) of any new post-op neurological event (CVA or TIA) following CABG



## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest...
- BNH. Nuffield Health at St Bart...
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital
- HH. Harefield Hospital

Country	2014/15	2015/16	2016/17	2017/18	2018/19
UK	0.64	0.67	0.84	0.58	0.80

Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	20
England	0.67	0.70	0.87	0.58	0.77	0.84	
Northern Ireland	0.00	0.26	0.28	0.00	1.73	1.02	
Wales	0.21	0.20	0.38	1.02	1.24	0.84	

Hospital	Data Completeness(%)
ANT. Spire St Anthonys Hospital	97
BAL. Barts and the London	95
BAS. Basildon Hospital	100
BHL. Liverpool Heart and Chest Hospital	100
BNH. Nuffield Health at St Bartholomew Hospital	80
BRI. Bristol Royal Infirmary	69
CBS. Spire Southampton Hospital	100
CCL. Cleveland Clinic London	94
CHH. Castle Hill Hospital	100
CHN. Nottingham City Hospital	100
CRO. Cromwell Hospital	96
FRE. Freeman Hospital	100
GEO. St George's Hospital	100
GHB. Spire Bristol Hospital	91
GRL. Glenfield Hospital	100
<b>Total</b>	<b>94</b>

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	20
WYT. Wythenshawe Hospital	0.00	0.00	0.17	0.41	0.46	
WAL. University Hospital Coventry	0.00	0.00	0.34	0.35	0.37	
VIC. Blackpool Victoria Hospital	1.28	0.33	1.41	1.24	0.19	
UHW. University Hospital of Wales	0.00	0.37	0.39	0.87	0.82	
UCL. University College Hospital	1.61	0.00				
STO. University Hospital of North Staffordshire	0.91	0.46	0.45	0.80	0.88	
STH. St Thomas Hospital	1.34	1.71	0.67	1.26	0.79	
SPN. Spire Nottingham Hospital						
SGH. Southampton General Hospital	1.28	0.22	1.24	0.00	0.20	
SCM. James Cook University Hospital	1.20	0.89	1.25	0.58	0.96	
RVB. Royal Victoria Hospital	0.00	0.26	0.28	0.00	1.73	
RSC. Royal Sussex County Hospital	6.79	5.56	3.22	2.46	3.18	
<b>Total</b>	<b>0.64</b>	<b>0.67</b>	<b>0.84</b>	<b>0.58</b>	<b>0.80</b>	

# Rate (%) of new post-operative kidney failure (requiring renal support therapy)



## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest...
- BNH. Nuffield Health at St Bart...
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital
- HH. Harefield Hospital

Country	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
UK	1.58	1.29	1.32	1.57	1.23	

Nation	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
England	1.51	1.21	1.27	1.53	1.19	
Northern Ireland	3.20	2.31	2.20	3.34	2.41	
Wales	2.27	2.77	2.10	1.64	1.45	

Hospital	Data Completeness(%)
WYT. Wythenshawe Hospital	77
WAL. University Hospital Coventry	82
VIC. Blackpool Victoria Hospital	99
UHW. University Hospital of Wales	92
UCL. University College Hospital	99
STO. University Hospital of North Staffordshire	98
STH. St Thomas Hospital	98
SPN. Spire Nottingham Hospital	100
SGH. Southampton General Hospital	98
SCM. James Cook University Hospital	100
RVB. Royal Victoria Hospital	100
RSC. Royal Sussex County Hospital	95
<b>Total</b>	<b>95</b>

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
WYT. Wythenshawe Hospital	0.20	0.00	0.00	0.00	0.99	0.99
WAL. University Hospital Coventry	1.39	1.22	2.75	1.06	0.74	0.74
VIC. Blackpool Victoria Hospital	0.48	1.67	1.21	1.07	0.99	0.99
UHW. University Hospital of Wales	2.15	3.32	3.88	2.62	2.41	2.41
UCL. University College Hospital	2.15	0.00				
STO. University Hospital of North Staffordshire	1.36	1.16	1.80	0.53	1.17	1.17
STH. St Thomas Hospital	0.67	0.00	0.00	0.51	0.51	0.51
SPN. Spire Nottingham Hospital						
SGH. Southampton General Hospital	0.86	0.43	0.00	0.67	0.20	0.20
SCM. James Cook University Hospital	1.89	1.61	1.42	1.54	0.19	0.19
RVB. Royal Victoria Hospital	3.20	2.31	2.20	3.34	2.41	2.41
RSC. Royal Sussex County Hospital	1.51	0.98	0.97	1.40	0.00	0.00
<b>Total</b>	<b>1.58</b>	<b>1.29</b>	<b>1.32</b>	<b>1.57</b>	<b>1.23</b>	<b>1.23</b>

# Numbers and % of cases by EuroSCORE 2 risk categories (high/medium/low)



## EuroSCORE II Risk Group

- High (>=8%)
- Low (<4%)
- Medium (4% - 8%)

## Country

Country	2019/20	2020/21	2021/22	2022/23	2023/24
UK	296	162	231	233	192

## Nations

Nations	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
England	276	153	204	209	179	145
Northern Ireland	6	3	8	8	7	9
Wales	14	6	19	16	6	7

## Procedure Type

- isoAVR
- isoCABG
- isoMV

## Number or Percent

- Number
- Percent(%)

## Financial Year

All

## Hospital

All

## Hospital

Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
WYT. Wythenshawe Hospital	7	3	4	6	7	16	43
WAL. University Hospital Coventry	9	4	6	4	7	7	37
VIC. Blackpool Victoria Hospital	6		8	7	7	6	34
UHW. University Hospital of Wales	5	3	8	7	4	4	31
STO. University Hospital of North Staffordshire	5	5	7	10	6	9	42
STH. St Thomas Hospital	13	8	8	7	3	2	41
SGH. Southampton General Hospital	37	22	23	34	14	15	145
SCM. James Cook University Hospital	21	8	13	16	9	6	73
RVB. Royal Victoria Hospital	6	3	8	8	7	9	41
RSC. Royal Sussex County Hospital	3	1	4	6	2	1	17
RAD. John Radcliffe Hospital	1	1	2		3		7
QEB. Queen Elizabeth Hospital	4		2	2		5	13
PLY. Derriford Hospital	2	2	1	6	5	2	18
PAP. Papworth Hospital	17	13	20	7	18	14	89
NHB. Royal Brompton Hospital	2	4	2	5	1	2	16
NGS. Northern General Hospital	8	4	7	7	3	3	32
NCR. New Cross Hospital	10	4	6	6	9	6	41
MRI. Manchester Royal Infirmary	12	6	4	14	9		45
MOR. Morriston Hospital	0	2	11	0	2	2	27
<b>Total</b>	<b>296</b>	<b>162</b>	<b>231</b>	<b>233</b>	<b>192</b>	<b>161</b>	<b>1275</b>

# Incision type - number of cases



## Incision Type

- Median Sternotomy
- Mini Thoracotomy
- Other
- Partial Sternotomy
- Robotic assisted

## Procedure Type

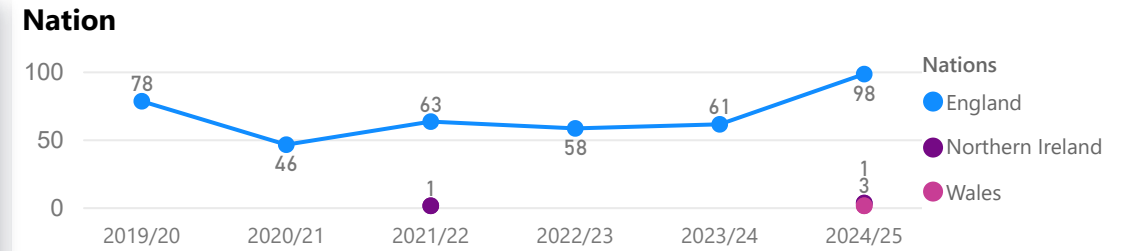
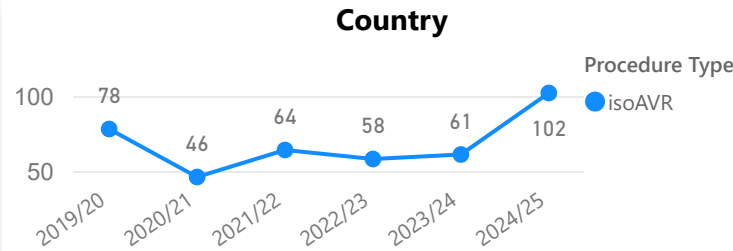
- isoAVR
- isoCABG
- isoMVR

## Financial Year

- 2019/20
- 2020/21
- 2021/22
- 2022/23
- 2023/24
- 2024/25

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest ...
- BRI. Bristol Royal Infirmary
- CCL. Cleveland Clinic London



Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital				1			1
BAL. Barts and the London	2		1	4	1	1	9
BAS. Basildon Hospital	6	8	3	1	1	3	22
BHL. Liverpool Heart and Chest Hospital			3	4	4		11
BRI. Bristol Royal Infirmary	8	3	1		3	1	16
CCL. Cleveland Clinic London				1	2	1	4
CHN. Nottingham City Hospital			4				4
CRO. Cromwell Hospital					5	9	14
GEO. St George's Hospital		1	2			4	7
GRL. Glenfield Hospital					1		1
HH. Harefield Hospital	18	3	8	2	7	3	41
KCH. King's College Hospital			1	1			2
LGI. Leeds General Infirmary						2	2
MOR. Morriston Hospital						1	1
NCR. New Cross Hospital				1	8	7	16
NGS. Northern General Hospital	13	2	1	2	5	7	30
NHB. Royal Brompton Hospital	4	7	8	5	3	6	33
<b>Total</b>	<b>78</b>	<b>46</b>	<b>64</b>	<b>58</b>	<b>61</b>	<b>102</b>	<b>409</b>

# Operations with or without median sternotomy - number of cases



## Median Sternotomy

- Both
- Unknown
- With
- Without

## Procedure Type

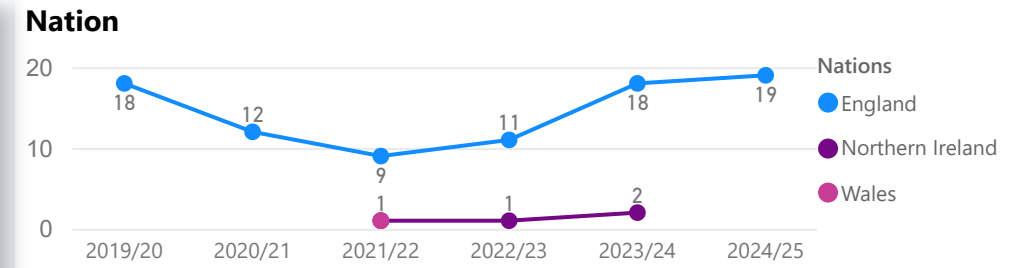
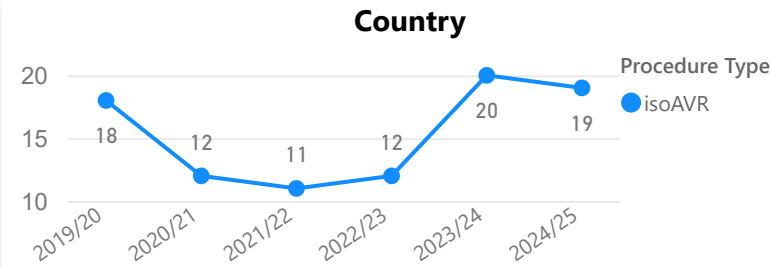
- isoAVR
- isoCABG
- isoMVR

## Financial Year

- 2019/20
- 2020/21
- 2021/22
- 2022/23

## Hospital

- Select all
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BRI. Bristol Royal Infirmary
- CHN. Nottingham City Hospital
- FRE. Freeman Hospital



Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
BAL. Barts and the London			1			2	3
BAS. Basildon Hospital	1	1					2
BHL. Liverpool Heart and Chest Hospital					1		1
BRI. Bristol Royal Infirmary	2	4					6
CHN. Nottingham City Hospital				1			1
FRE. Freeman Hospital					1		1
GEO. St George's Hospital	1						1
GRL. Glenfield Hospital						1	1
HH. Harefield Hospital	2	3		3	2	1	11
KCH. King's College Hospital						1	1
LGI. Leeds General Infirmary					1		1
MOR. Morriston Hospital			1				1
NCR. New Cross Hospital				1		2	3
NHB. Royal Brompton Hospital	2		1	3	3	4	13
PLY. Derriford Hospital						2	2
RAD. John Radcliffe Hospital	1						1
RSC. Royal Sussex County Hospital		1	1	2	1		5
<b>Total</b>	<b>18</b>	<b>12</b>	<b>11</b>	<b>12</b>	<b>20</b>	<b>19</b>	<b>92</b>

# Operations with or without median sternotomy - number of deaths



## Sternotomy.Median

- Both
- Unknown
- With
- Without

## Procedure Type

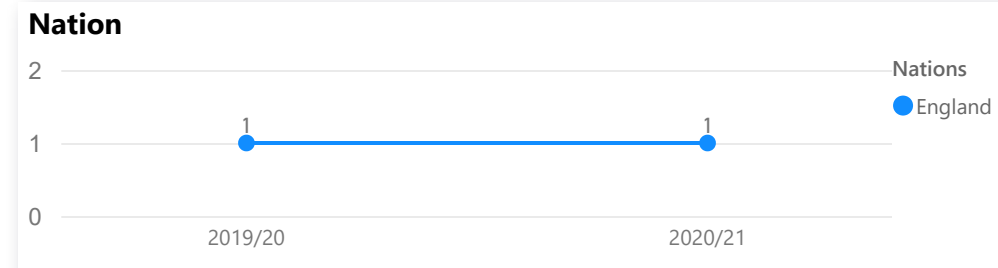
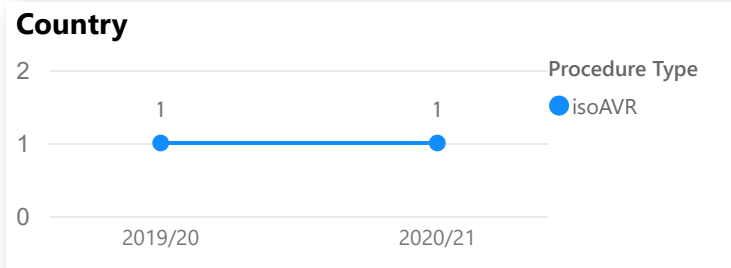
- isoAVR
- isoCABG
- isoMVR

## Financial Year

- 2019/20
- 2020/21
- 2021/22
- 2022/23
- 2023/24

## Hospital

- Select all
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BRI. Bristol Royal Infirmary
- CHN. Nottingham City Hospital
- FRE. Freeman Hospital
- ...



Hospital	2019/20	2020/21	Aggregate
HH. Harefield Hospital		1	1
SCM. James Cook University Hospital	1		1
<b>Total</b>	<b>1</b>	<b>1</b>	<b>2</b>

# Valve implant types by patient age - isolated AVR



## Age Group

- Select all
- <50
- >70
- 50-60
- 60-70

## isoAVR Implant Type

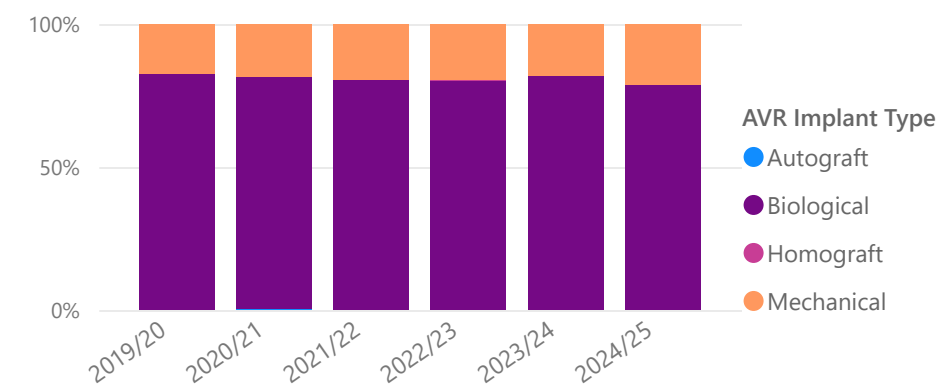
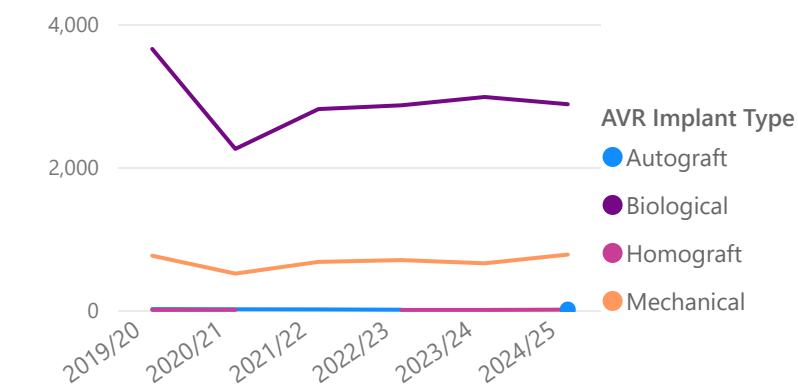
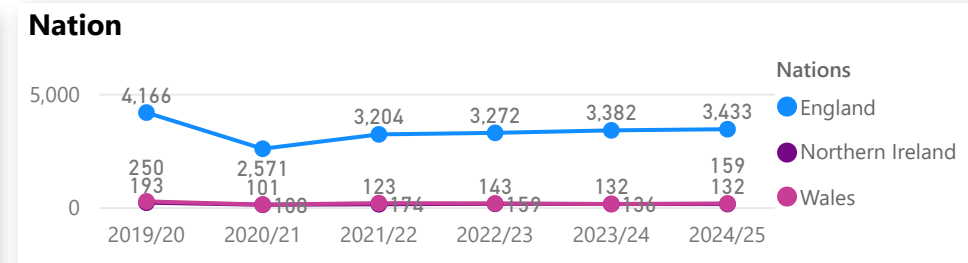
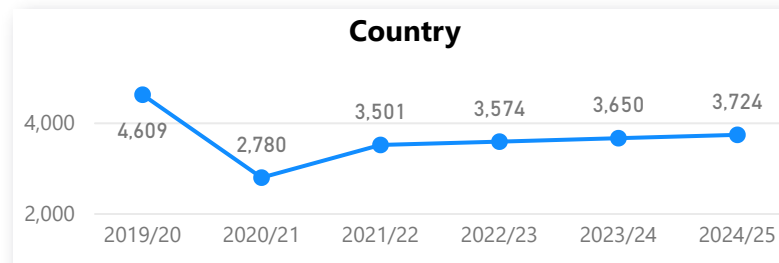
- Select all
- Autograft
- Biological
- Homograft
- Mechanical

## Financial Year

All

## Hospital

All



Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital	6	1	8	5	9	7	36
BAL. Barts and the London	256	172	180	191	210	217	1,226
BAS. Basildon Hospital	102	77	107	118	117	133	654
BHL. Liverpool Heart and Chest Hospital	264	145	204	153	175	182	1,123
BRI. Bristol Royal Infirmary	179	145	168	138	143	136	909
CBS. Spire Southampton Hospital	129	72	85	77	75	62	500
CCL. Cleveland Clinic London				17	20	29	66
<b>Total</b>	<b>4,609</b>	<b>2,780</b>	<b>3,501</b>	<b>3,574</b>	<b>3,650</b>	<b>3,724</b>	<b>21,838</b>

# Valve implant types by patient age - isolated MVR



## Age Group

- Select all
- <50
- >70
- 50-60
- 60-70

## isoMVR Implant Type

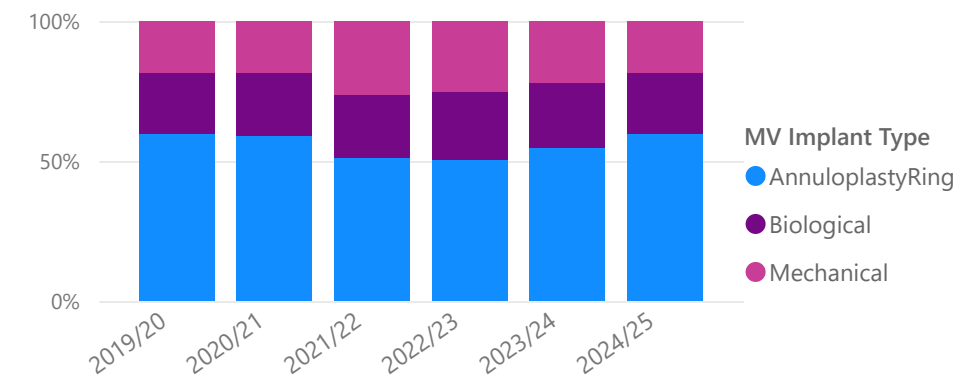
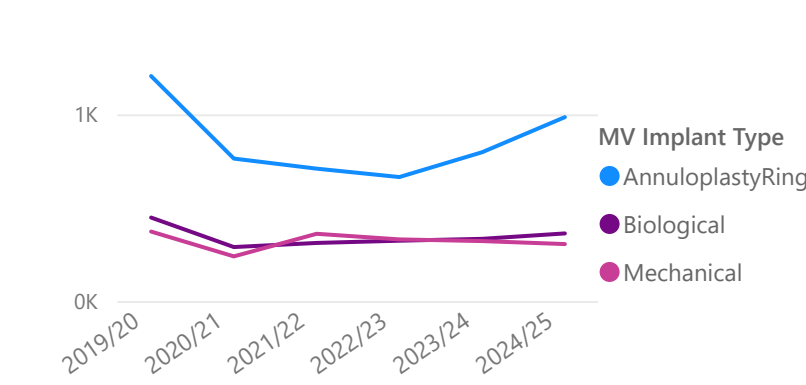
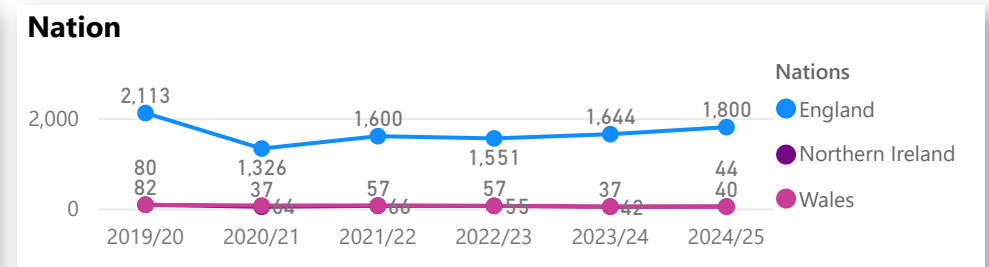
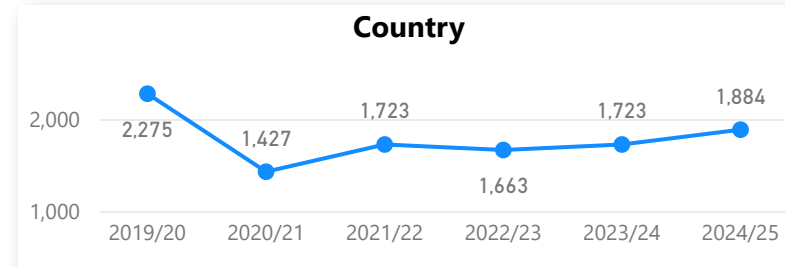
- Select all
- AnnuloplastyRing
- Biological
- Mechanical

## Financial Year

All

## Hospital

All



Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital	4	2	3	1	3	4	17
BAL. Barts and the London	164	87	121	124	136	121	753
BAS. Basildon Hospital	61	26	51	55	55	70	318
BHL. Liverpool Heart and Chest Hospital	138	57	104	92	88	91	570
BRI. Bristol Royal Infirmary	97	60	83	91	98	111	540
CBS. Spire Southampton Hospital	63	30	63	46	43	36	281
<b>Total</b>	<b>2,275</b>	<b>1,427</b>	<b>1,723</b>	<b>1,663</b>	<b>1,723</b>	<b>1,884</b>	<b>10,695</b>

# Consultant Activity (cases per year) - excluding emergencies and dual consultant procedures



## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest ...
- BNH. Nuffield Health at St Barth...
- BRI. Bristol Royal Infirmary
- CBS. Spire Southampton Hospital
- CCL. Cleveland Clinic London
- CHH. Castle Hill Hospital
- CHN. Nottingham City Hospital
- CRO. Cromwell Hospital
- FRE. Freeman Hospital
- GEO. St George's Hospital
- GHB. Spire Bristol Hospital
- GRL. Glenfield Hospital
- HAM. Hammersmith Hospital

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

GMC	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Total
4249887	309	287	302	299	281	341	164	221	192	162	120	<b>2,678</b>
3153444	331	299	297	298	291	361	187	200	113	141	108	<b>2,626</b>
3067473	291	268	263	290	305	314	178	215	181	155	45	<b>2,505</b>
3198007	259	245	248	245	268	327	178	167	152	153	140	<b>2,382</b>
6112764	224	239	221	231	284	318	162	219	187	150	112	<b>2,347</b>
3065110	181	192	226	223	226	203	161	228	239	203	245	<b>2,327</b>
6055244	218	251	241	227	228	216	135	182	181	173	162	<b>2,214</b>
3276042	240	270	287	268	180	201	106	137	160	152	194	<b>2,195</b>
4687610	257	183	197	180	212	197	147	192	217	202	178	<b>2,162</b>
6024981	268	233	202	188	194	174	156	196	153	148	125	<b>2,037</b>
4334905	179	178	187	188	224	189	141	175	190	185	183	<b>2,019</b>
2734118	230	298	243	236	160	162	128	137	117	131	143	<b>1,985</b>
2490928	360	380	378	362	210	101	76	76	41			<b>1,984</b>
3663439	206	194	219	210	193	198	127	154	158	140	138	<b>1,937</b>
4273868	197	220	184	197	196	194	90	113	156	154	231	<b>1,932</b>
4047889	296	310	244	213	178	143	62	100	106	130	145	<b>1,927</b>
3481985	209	181	204	208	199	161	103	158	181	164	130	<b>1,898</b>
6084806	161	181	196	193	197	193	100	165	152	150	138	<b>1,826</b>
4592860	242	213	214	207	175	167	76	125	158	118	104	<b>1,799</b>
7448896	91	182	201	155	103	215	142	181	164	170	178	<b>1,782</b>
2949989	178	183	194	220	144	154	90	165	129	132	186	<b>1,775</b>
6026218	201	256	177	144	120	155	120	127	161	147	128	<b>1,766</b>
<b>Total</b>	<b>33,005</b>	<b>32,231</b>	<b>32,191</b>	<b>31,179</b>	<b>30,693</b>	<b>29,573</b>	<b>19,359</b>	<b>24,813</b>	<b>25,607</b>	<b>26,518</b>	<b>27,518</b>	<b>312,687</b>

# Discussion at pre-operation MDT - by procedure type



## Quorate\_preop\_MDT

- Missing
- No
- Yes

## Procedure Type

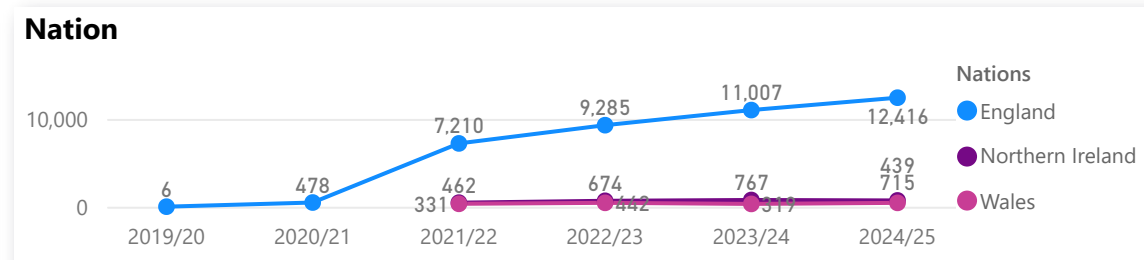
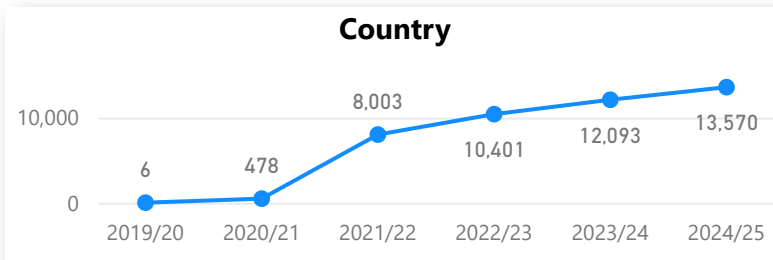
- All
- isoAVR
- isoCABG
- isoMVR

## Financial Year

All

## Hospital

All



Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital			55	24	52	68	<b>199</b>
BAL. Barts and the London			922	995	971	1,095	<b>3,983</b>
BAS. Basildon Hospital			122	500	487	497	<b>1,606</b>
BNH. Nuffield Health at St Bartholomew Hospital						4	<b>4</b>
CBS. Spire Southampton Hospital			36	45	20	14	<b>115</b>
CHH. Castle Hill Hospital		38	510	558	598	524	<b>2,228</b>
CHN. Nottingham City Hospital		3	191	241	318	257	<b>1,010</b>
CRO. Cromwell Hospital				16	19	78	<b>113</b>
FRE. Freeman Hospital	1	104	176	181	229	199	<b>890</b>
GEO. St George's Hospital		140	502	480	455	668	<b>2,245</b>
GHB. Spire Bristol Hospital					11	15	<b>26</b>
GRL. Glenfield Hospital			236	252	303	360	<b>1,151</b>
HAM. Hammersmith Hospital			190	96	212	276	<b>774</b>
HH. Harefield Hospital			344	510	457	416	<b>1,727</b>
KCH. King's College Hospital					71	114	<b>185</b>
LGI. Leeds General Infirmary			267	370	476	551	<b>1,664</b>
MAP. Mater Private Hospital			1	136	79		<b>216</b>
<b>Total</b>	<b>6</b>	<b>478</b>	<b>8,003</b>	<b>10,401</b>	<b>12,093</b>	<b>13,570</b>	<b>44,551</b>

# Number of patients receiving blood transfusion (any component) - by procedure type



## Blood\_transfusion

- Missing
- No
- Yes

## Procedure Type

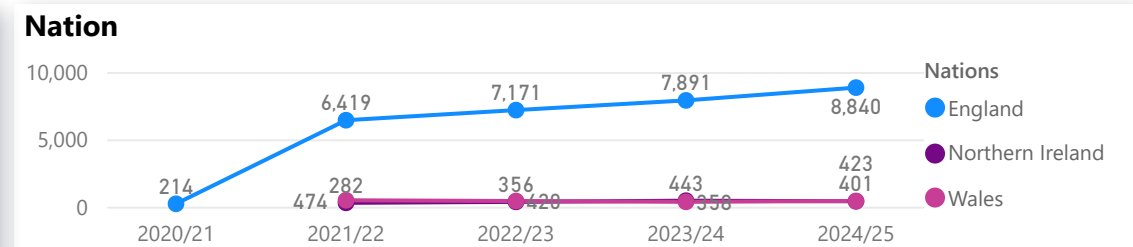
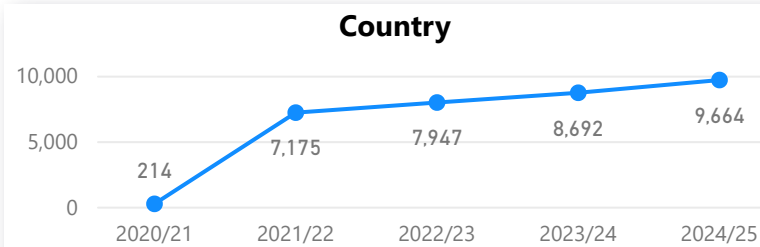
- All
- isoAVR
- isoCABG
- isoMVR

## Financial Year

All

## Hospital

All



Hospital	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital		32	9	24	36	<b>101</b>
BAL. Barts and the London		1,127	1,183	1,157	1,129	<b>4,596</b>
BAS. Basildon Hospital		15	15	30	24	<b>84</b>
BNH. Nuffield Health at St Bartholomew Hospital					2	<b>2</b>
CBS. Spire Southampton Hospital		2	5	4	12	<b>23</b>
CCL. Cleveland Clinic London			68	120	131	<b>319</b>
CHH. Castle Hill Hospital	6	256	258	309	307	<b>1,136</b>
CHN. Nottingham City Hospital	4	336	309	330	296	<b>1,275</b>
CRO. Cromwell Hospital			4	4	25	<b>33</b>
FRE. Freeman Hospital	1	14	4	1		<b>20</b>
GEO. St George's Hospital	1	325	334	332	458	<b>1,450</b>
GHB. Spire Bristol Hospital				5	22	<b>27</b>
GRL. Glenfield Hospital		533	594	582	572	<b>2,281</b>
HAM. Hammersmith Hospital		139	294	170	355	<b>958</b>
HH. Harefield Hospital		361	320	140	206	<b>1,027</b>
KCH. King's College Hospital					16	<b>16</b>
IGI Leeds General Infirmary		274	308	349	434	<b>1,365</b>
<b>Total</b>	<b>214</b>	<b>7,175</b>	<b>7,947</b>	<b>8,692</b>	<b>9,664</b>	<b>33,692</b>

# Dual consultant operations



## Nation

- Select all
- England
- Northern Ireland
- Wales

## Type

- 1. Number
- 2. Percent(%)
- 3. Deaths
- 4. Mortality(%)
- 5. Predicted Mortality(%)

## Financial Year

All

## Hospital

All

Country	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
UK	117	200	237	252	314	528

Nations	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
England	117	200	229	243	291	462
Northern Ireland			5	1	8	14
Wales			3	8	15	26

Hospital	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital		1	3			1	5
BAL. Barts and the London		8	14	1	3	16	42
BAS. Basildon Hospital			3	16	36	96	151
BHL. Liverpool Heart and Chest Hospital	8	6	9	10	13	39	85
BNH. Nuffield Health at St Bartholomew Hospital			3	5	11	20	39
BRI. Bristol Royal Infirmary							
CBS. Spire Southampton Hospital							
CCL. Cleveland Clinic London							
CHH. Castle Hill Hospital	10	7	15	14	13	19	78
CHN. Nottingham City Hospital			1	4	8	11	24
CRO. Cromwell Hospital						5	5
FRE. Freeman Hospital							
GEO. St George's Hospital		5	7	3	8	13	36
GHB. Spire Bristol Hospital					3	1	4
GRL. Glenfield Hospital	16	19	20	19	28	60	162
HAM. Hammersmith Hospital	9	3	11	17	30	33	103
HH. Harefield Hospital	10	62	28	16	7		123
KCH. King's College Hospital	7	8	22	17	7		61
<b>Total</b>	<b>117</b>	<b>200</b>	<b>237</b>	<b>252</b>	<b>314</b>	<b>528</b>	<b>1648</b>

# Consultant and Trainee activity



## Nation

- Select all
- England
- Northern Ireland
- Wales

## Country 2022/23 2023/24 2024/25

<b>UK</b>	17335	18050	19184
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## Nations 2022/23 2023/24 2024/25

<b>England</b>	15899	16643	17725
<b>Northern Ireland</b>	535	635	645
<b>Wales</b>	901	772	814

## Type

- 1. Number
- 2. Percent(%)
- 3. By trainee
- 4. Trainee percent(%)

## Financial Year

All

## Hospital

All

Hospital	2022/23	2023/24	2024/25	Aggregate
ANT. Spire St Anthonys Hospital	24	53	68	<b>145</b>
BAL. Barts and the London	1061	1137	1074	<b>3272</b>
BAS. Basildon Hospital	557	572	611	<b>1740</b>
BHL. Liverpool Heart and Chest Hospital	1178	1148	1316	<b>3642</b>
BNH. Nuffield Health at St Bartholomew Hospital			5	<b>5</b>
BRI. Bristol Royal Infirmary				
CBS. Spire Southampton Hospital	260	314	245	<b>819</b>
CCL. Cleveland Clinic London	129	174	211	<b>514</b>
CHH. Castle Hill Hospital	314	455	488	<b>1257</b>
CHN. Nottingham City Hospital	326	404	377	<b>1107</b>
CRO. Cromwell Hospital	12	54	55	<b>121</b>
FRE. Freeman Hospital	333	377	362	<b>1072</b>
GEO. St George's Hospital	460	323	479	<b>1262</b>
GHB. Spire Bristol Hospital		14	68	<b>82</b>
GRL. Glenfield Hospital	562	555	638	<b>1755</b>
HAM. Hammersmith Hospital	246	249	245	<b>740</b>
HH. Harefield Hospital	709	677	696	<b>2082</b>
<b>Total</b>	<b>17335</b>	<b>18050</b>	<b>19184</b>	<b>54569</b>

# Cardiopulmonary bypass usage for isolated CABG



## Nation

- Select all
- England
- Northern Ireland
- Wales

## Cardio\_Pulmonary\_Bypass

- Missing
- No
- Yes

## Financial Year

All

## Hospital

All

Country	2014/15	2015/16	2016/17	2017/18
<b>UK</b>	13,041	11,675	12,103	11,407

Nation	2014/15	2015/16	2016/17	2017/18
<b>England</b>	12,231	10,841	11,286	10,898
<b>Northern Ireland</b>	402	389	353	323
<b>Wales</b>	408	445	464	437

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19
ANT. Spire St Anthonys Hospital	116	80	40	26	14
BAL. Barts and the London	491	704	752	740	922
BAS. Basildon Hospital	484	394	360	307	358
BHL. Liverpool Heart and Chest Hospital	509	508	611	605	413
BNH. Nuffield Health at St Bartholomew Hospital					
BRI. Bristol Royal Infirmary	407	332	256	273	335
CBS. Spire Southampton Hospital	128	101	120	115	109
CCL. Cleveland Clinic London					
CHH. Castle Hill Hospital	366	355	309	299	409
CHN. Nottingham City Hospital	201	164	92	159	146
CRO. Cromwell Hospital			7	10	13
FRE. Freeman Hospital	221	272	244	239	222
<b>Total</b>	<b>13,041</b>	<b>11,675</b>	<b>12,103</b>	<b>11,658</b>	<b>11,407</b>

# Rates (%) of Off Pump Coronary Artery Bypass (OPCAB)



## Nation

- Select all
- England
- Northern Ireland
- Wales

## Country 2014/15 2015/16 2016/17 2017/18

<b>UK</b>	16.7	18.5	18.4	18.4
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## Nation 2014/15 2015/16 2016/17 2017/18

<b>England</b>	17.1	19.2	19.0	19.1
<b>Northern Ireland</b>	2.7	1.5	3.3	2.1
<b>Wales</b>	17.2	14.1	13.1	12.4

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

## Hospital

## 2014/15 2015/16 2016/17 2017/18 2018/19 2019/20

ANT. Spire St Anthonys Hospital	37.30	27.93	24.53	50.94	70.21	76.00
BAL. Barts and the London	4.10	3.69	11.74	16.38	7.98	7.09
BAS. Basildon Hospital	4.54	6.64	8.16	8.08	6.04	6.05
BHL. Liverpool Heart and Chest Hospital	41.96	43.62	35.82	35.57	46.57	44.01
BNH. Nuffield Health at St Bartholomew Hospital						
BRI. Bristol Royal Infirmary	38.61	39.96	51.61	45.73	33.66	41.08
CBS. Spire Southampton Hospital	12.33	19.84	20.00	13.53	12.10	17.53
CCL. Cleveland Clinic London						
CHH. Castle Hill Hospital	1.88	3.27	7.49	6.85	0.73	0.66
CHN. Nottingham City Hospital	22.69	25.79	55.34	37.40	46.72	30.49
CRO. Cromwell Hospital		100.00	69.57		40.91	66.67
FRE. Freeman Hospital	18.75	6.53	4.69	15.55	14.62	5.22
<b>Total</b>	<b>16.69</b>	<b>18.54</b>	<b>18.37</b>	<b>18.42</b>	<b>16.65</b>	<b>15.39</b>

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Bartholomew Hos...
- BRI. Bristol Royal Infirmary

# Number of bypass grafts performed - isolated CABG patients



## Nation

- Select all
- England
- Northern Ireland
- Wales

Country	0	1	2	3	4	5
<b>UK</b>	197	6,673	31,405	68,016	29,069	3

Nation	0	1	2	3	4	5	6
<b>England</b>	182	6,547	30,345	64,208	26,405	3,365	3
<b>Northern Ireland</b>	3	56	462	1,473	1,054	210	
<b>Wales</b>	12	70	598	2,335	1,610	210	

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

Hospital	0	1	2	3	4	5	6	7	8	9
ANT. Spire St Anthonys Hospital		35	91	153	176	77	38	3		
BAL. Barts and the London	4	386	1,787	4,766	1,928	140	2			
BAS. Basildon Hospital	12	200	917	1,972	704	74	11	2		
BHL. Liverpool Heart and Chest Hospital		426	1,840	3,960	2,001	364	16	4		
BNH. Nuffield Health at St Bartholomew Hospital			1		3					
BRI. Bristol Royal Infirmary	30	405	1,929	2,449	442	43	4	2		
CBS. Spire Southampton Hospital	4	40	199	611	387	40	6			
CCL. Cleveland Clinic London		9	15	58	36	18	4			
CHH. Castle Hill Hospital		180	1,168	1,792	552	60	5			
CHN. Nottingham City Hospital		68	729	1,227	330	62	16	3		
CRO. Cromwell Hospital	2	17	32	46	24	14	1			
FRE. Freeman Hospital	1	76	561	1,273	496	46	4			
<b>Total</b>	<b>197</b>	<b>6,673</b>	<b>31,405</b>	<b>68,016</b>	<b>29,069</b>	<b>3,785</b>	<b>360</b>	<b>34</b>	<b>4</b>	<b>1</b>

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Bartholomew Hos...
- BRI. Bristol Royal Infirmary

# Percentage of procedures by number of bypass grafts performed - isolated CABG patients



## Nation

- Select all
- England
- Northern Ireland
- Wales

Country	0	1	2	3	4	5	6	7
<b>UK</b>	0.1	4.8	22.4	48.6	20.8	2.7	0.3	0.0

Nation	0	1	2	3	4	5	6	7	8	9
<b>England</b>	0.1	5.0	23.0	48.7	20.0	2.6	0.2	0.0	0.0	0.0
<b>Northern Ireland</b>	0.1	1.7	14.1	44.9	32.1	6.4	0.5	0.1	0.0	
<b>Wales</b>	0.2	1.4	12.3	48.1	33.2	4.3	0.3			

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

Hospital	0	1	2	3	4	5	6	7	8	9	Blank
ANT. Spire St Anthonys Hospital		6.0	15.7	26.4	30.4	13.3	6.6	0.5			1.0
BAL. Barts and the London	0.0	4.3	19.8	52.8	21.4	1.6	0.0				0.1
BAS. Basildon Hospital	0.3	5.1	23.5	50.5	18.0	1.9	0.3	0.1			0.4
BHL. Liverpool Heart and Chest Hospital		4.9	21.1	45.5	23.0	4.2	0.2	0.0			1.1
BNH. Nuffield Health at St Bartholomew Hospital			20.0		60.0						20.0
BRI. Bristol Royal Infirmary	0.6	7.6	36.1	45.8	8.3	0.8	0.1	0.0			0.8
CBS. Spire Southampton Hospital	0.3	3.1	15.4	47.4	30.0	3.1	0.5				0.2
CCL. Cleveland Clinic London		6.4	10.7	41.4	25.7	12.9	2.9				
CHH. Castle Hill Hospital		4.8	31.1	47.7	14.7	1.6	0.1				
CHN. Nottingham City Hospital		2.8	29.9	50.4	13.6	2.5	0.7	0.1			
CRO. Cromwell Hospital	1.3	11.2	21.1	30.3	15.8	9.2	0.7				10.5
FRE. Freeman Hospital	0.0	3.1	22.8	51.8	20.2	1.9	0.2				
<b>Total</b>	<b>0.1</b>	<b>4.8</b>	<b>22.4</b>	<b>48.6</b>	<b>20.8</b>	<b>2.7</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.3</b>

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Bartholomew Hos...
- BRI. Bristol Royal Infirmary

# Number of operations using internal mammary artery (IMA) graft to the LAD coronary artery - isolated CABG patients



## Nation

- Select all
- England
- Northern Ireland
- Wales

Country	2014/15	2015/16	2016/17	2017/18
<b>UK</b>	14,138	13,130	13,854	13,788

Nation	2014/15	2015/16	2016/17	2017/18
<b>England</b>	13,564	12,541	13,230	12,991
<b>Northern Ireland</b>	106	90	99	328
<b>Wales</b>	468	499	525	469

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22
- 2022/23

Hospital	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
ANT. Spire St Anthonys Hospital	182	108	50	52	44	24
BAL. Barts and the London	502	718	832	871	989	947
BAS. Basildon Hospital	496	405	386	327	379	308
BHL. Liverpool Heart and Chest Hospital	854	865	917	899	728	765
BNH. Nuffield Health at St Bartholomew Hospital						
BRI. Bristol Royal Infirmary	641	535	521	470	471	427
CBS. Spire Southampton Hospital	43	23	43	36	29	152
CCL. Cleveland Clinic London						
CHH. Castle Hill Hospital	368	362	321	318	394	444
CHN. Nottingham City Hospital	256	209	137	248	266	219
CRO. Cromwell Hospital			8	10	21	9
FRE. Freeman Hospital	266	88	72	276	254	224
<b>Total</b>	<b>14,138</b>	<b>13,130</b>	<b>13,854</b>	<b>13,788</b>	<b>13,182</b>	<b>12,675</b>

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Bartholomew Hos...
- BRI. Bristol Royal Infirmary

# Number of graft conduits used in operations where the internal mammary artery is used for the LAD Coronary Artery - isolated CABG



## Nation

- Select all
- England
- Northern Ireland
- Wales

Country	1	2	3	4	5	7
<b>UK</b>	125,107	4,521	1	2,107	2,439	9,937

Nations	1	2	3	4	5	7	8
<b>England</b>	118,355	4,416	1	2,027	2,265	9,550	112,983
<b>Northern Ireland</b>	2,296	27		33	7	336	1,909
<b>Wales</b>	4,456	78		47	167	51	4,799

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

Hospital	1	2	3	4	5	7	8	9
ANT. Spire St Anthonys Hospital	540	33		8	103	142	389	5
BAL. Barts and the London	8,422	106		110	19	151	9,236	61
BAS. Basildon Hospital	3,441	60		67	72	189	3,455	7
BHL. Liverpool Heart and Chest Hospital	7,653	173		56	34	1,452	6,589	54
BNH. Nuffield Health at St Bartholomew Hospital	4						4	
BRI. Bristol Royal Infirmary	4,829	85		69	31	80	4,649	35
CBS. Spire Southampton Hospital	689	2		5		8	540	3
CCL. Cleveland Clinic London	136	23			3	55	89	6
CHH. Castle Hill Hospital	3,427	62		29	22	144	3,434	4
CHN. Nottingham City Hospital	2,236	16		22	66	510	1,755	7
CRO. Cromwell Hospital	126	11		3	13	38	67	1
FRE. Freeman Hospital	1,842	84		108	16	23	1,725	36
<b>Total</b>	<b>125,107</b>	<b>4,521</b>	<b>1</b>	<b>2,107</b>	<b>2,439</b>	<b>9,937</b>	<b>119,416</b>	<b>1,156</b>

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Bartholomew Hos...
- BRI. Bristol Royal Infirmary

# Percentage of graft conduit used when the internal mammary artery (IMA is used for the LAD Coronary Artery - isolated CABG



## Nation

- Select all
- England
- Northern Ireland
- Wales

Country	1	2	3	4	5	7	8	9
<b>UK</b>	47.2	1.7	0.0	0.8	0.9	3.7	45.0	0.4

Nations	1	2	3	4	5	7	8	9	10	11
<b>England</b>	47.1	1.8	0.0	0.8	0.9	3.8	45.0	0.4	0.0	0.1
<b>Northern Ireland</b>	48.8	0.6		0.7	0.1	7.1	42.1	0.3		
<b>Wales</b>	47.8	0.8		0.5	1.8	0.5	48.3	0.2		

## Financial Year

- Select all
- 2014/15
- 2015/16
- 2016/17
- 2017/18
- 2018/19
- 2019/20
- 2020/21
- 2021/22

Hospital	1	2	3	4	5	7	8	9	10	11	12	Agg
ANT. Spire St Anthonys Hospital	44.2	2.7		0.7	8.4	11.6	31.9	0.4				0.1
BAL. Barts and the London	46.5	0.6		0.6	0.1	0.8	51.0	0.3	0.0	0.0	0.0	
BAS. Basildon Hospital	46.6	0.8		0.9	1.0	2.6	46.8	0.1		0.4	0.9	
BHL. Liverpool Heart and Chest Hospital	47.7	1.1		0.3	0.2	9.1	41.1	0.3		0.2		
BNH. Nuffield Health at St Bartholomew Hospital	50.0						50.0					
BRI. Bristol Royal Infirmary	49.4	0.9		0.7	0.3	0.8	47.5	0.4		0.0	0.1	
CBS. Spire Southampton Hospital	55.2	0.2		0.4		0.6	43.2	0.2			0.2	
CCL. Cleveland Clinic London	43.6	7.4				1.0	17.6	28.5	1.9			
CHH. Castle Hill Hospital	48.1	0.9		0.4	0.3	2.0	48.2	0.1				
CHN. Nottingham City Hospital	48.5	0.3		0.5	1.4	11.1	38.1	0.2				
CRO. Cromwell Hospital	48.5	4.2		1.2	5.0	14.6	25.8	0.4		0.4		
FRE. Freeman Hospital	48.0	2.2		2.8	0.4	0.6	45.0	0.9			0.1	
<b>Total</b>	<b>47.2</b>	<b>1.7</b>	<b>0.0</b>	<b>0.8</b>	<b>0.9</b>	<b>3.7</b>	<b>45.0</b>	<b>0.4</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	

## Hospital

- Select all
- ANT. Spire St Anthonys Hospital
- BAL. Barts and the London
- BAS. Basildon Hospital
- BHL. Liverpool Heart and Chest Hospital
- BNH. Nuffield Health at St Bartholomew Hos...
- BRI. Bristol Royal Infirmary

# Other procedures by nation and hospital - case numbers



## Nation

All

## Other Procedures

- 0. No other cardiac procedure performed
- 1. Lv aneurysmectomy
- 2. Acquired vsd
- 3. Atrial myxoma
- 4. Acute pulmonary embolectomy
- 5. Cardiac transplant
- 7. Cardiac trauma
- 8. Epicardial pacemaker
- 9. Pericardiectomy
- 10. Asd closure
- 11. Other procedure for congenital coarctation of aorta
- 12. Pulmonary thrombo-endarterectomy

## Financial Year

All

## Hospital

All

## Country 2015/16 2016/17 2017/18 2018/19 2019/20 2020/21 2022/23

<b>UK</b>	2,649	785	568	613		
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## Nations 2015/16 2016/17 2017/18 2018/19 2019/20 2020/21 2022/23

<b>England</b>	2,499	722	499	568	554	
<b>Wales</b>	150	63	69	45	36	

Hospital	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2022/23
BAL. Barts and the London	1,397	5	161	4	4	65	5
BAS. Basildon Hospital	443	257		1	2	1	5
BHL. Liverpool Heart and Chest Hospital			67	71	52	170	46
HH. Harefield Hospital							
HHW. Wellington Hospital North		12					
HSC. Harley Street Clinic		6					
KCH. King's College Hospital							
LBH. London Bridge Hospital		19	2				
NGS. Northern General Hospital							
NHB. Royal Brompton Hospital							
PAP. Papworth Hospital	406	303	110	272	185		
RAD. John Radcliffe Hospital	252	120		1	3	28	9
<b>Total</b>	<b>2,649</b>	<b>785</b>	<b>568</b>	<b>613</b>	<b>590</b>	<b>488</b>	<b>234</b>

# Other procedures by nation and hospital - in-hospital deaths



## Nation

All

## Other Procedures

- 0. No other cardiac procedure perfor...
- 1. Lv aneurysmectomy
- 2. Acquired vsd
- 3. Atrial myxoma
- 4. Acute pulmonary embolectomy
- 5. Cardiac transplant
- 7. Cardiac trauma
- 8. Epicardial pacemaker
- 9. Pericardiectomy
- 10. Asd closure
- 11. Other procedure for congenital co...
- 12. Pulmonary thrombo-endarterecto...

## Financial Year

All

## Hospital

All

## Country 2015/16 2016/17 2017/18 2018/19

<b>UK</b>	60	9	18	13
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## Nations 2015/16 2016/17 2017/18 2018/19 2019/20

<b>England</b>	57	6	15	12	10
<b>Wales</b>	3	3	3	1	2

Hospital	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2022/23
BAL. Barts and the London	43	0	5	1	1	6	1
BAS. Basildon Hospital	7	3		1	1	0	0
BHL. Liverpool Heart and Chest Hospital			5	3	0	2	2
HH. Harefield Hospital							
HHW. Wellington Hospital North		1					
HSC. Harley Street Clinic		0					
KCH. King's College Hospital							
LBH. London Bridge Hospital		1	0				
NGS. Northern General Hospital							
NHB. Royal Brompton Hospital							
PAP. Papworth Hospital	4	1	3	7	1		
RAD. John Radcliffe Hospital	3	0		0	0	0	0
<b>Total</b>	<b>60</b>	<b>9</b>	<b>18</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>5</b>

# Other procedures by nation and hospital - in-hospital mortality (%)



## Nation

All

## Other Procedures

- 0. No other cardiac procedure perfor...
- 1. Lv aneurysmectomy
- 2. Acquired vsd
- 3. Atrial myxoma
- 4. Acute pulmonary embolectomy
- 5. Cardiac transplant
- 7. Cardiac trauma
- 8. Epicardial pacemaker
- 9. Pericardiectomy
- 10. Asd closure
- 11. Other procedure for congenital co...
- 12. Pulmonary thrombo-endarterecto...

## Financial Year

All

## Hospital

All

## Country 2015/16 2016/17 2017/18 2018/19

<b>UK</b>	2.27	1.15	3.17	2.12
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## Nations 2015/16 2016/17 2017/18 2018/19 2019/20

<b>England</b>	2.28	0.83	3.01	2.11	1.81
<b>Wales</b>	2.00	4.76	4.35	2.22	5.56

Hospital	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2022/23
BAL. Barts and the London	3.08	0.00	3.11	25.00	25.00	9.23	20.00
BAS. Basildon Hospital	1.58	1.17		100.00	50.00	0.00	0.00
BHL. Liverpool Heart and Chest Hospital			7.46	4.23	0.00	1.18	4.35
HH. Harefield Hospital							
HHW. Wellington Hospital North		8.33					
HSC. Harley Street Clinic		0.00					
KCH. King's College Hospital							
LBH. London Bridge Hospital		5.26	0.00				
NGS. Northern General Hospital							
NHB. Royal Brompton Hospital							
PAP. Papworth Hospital	0.99	0.33	2.73	2.57	0.54		
RAD. John Radcliffe Hospital	1.19	0.00		0.00	0.00	0.00	0.00
SGH. Southampton General Hospital			1.26	0.00	2.27	1.35	1.23
STH. St Thomas Hospital							

# Readmission rates (%) within 30 Days



Select hospital

All

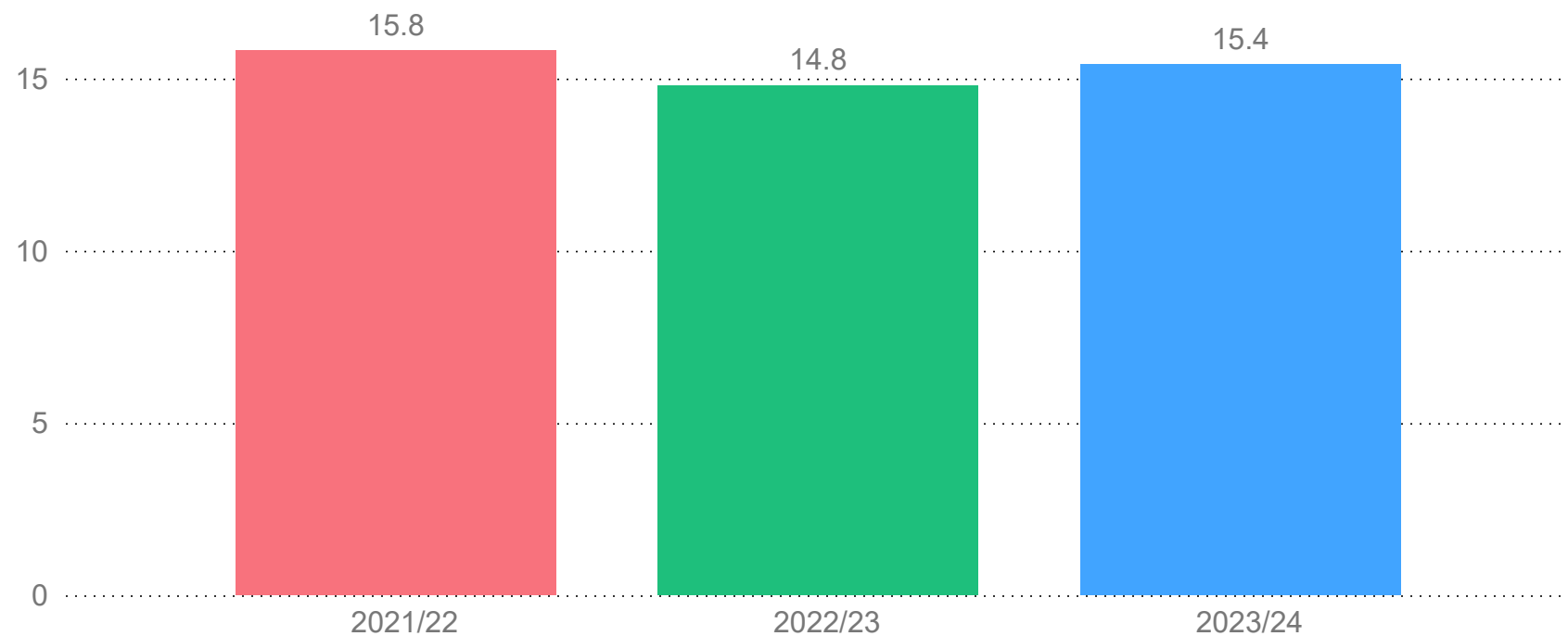
Select procedure type

All

Select age group

All

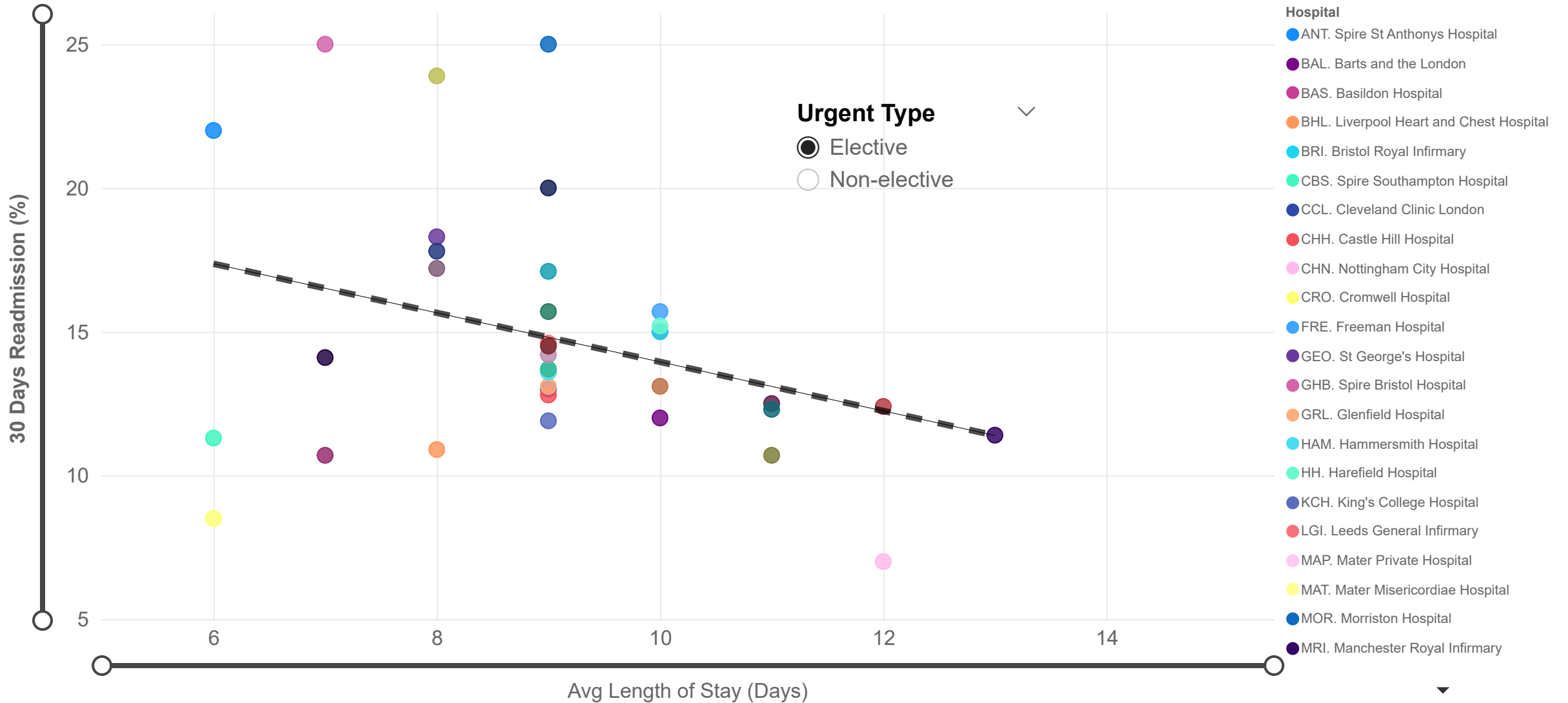
**Rates of readmission (%) within 30 days**



# Relationship between readmission rate (%) and length of stay by urgent type



## 30 day readmission rate (%) by average length of stay (2021/22 -2024/25 Data)

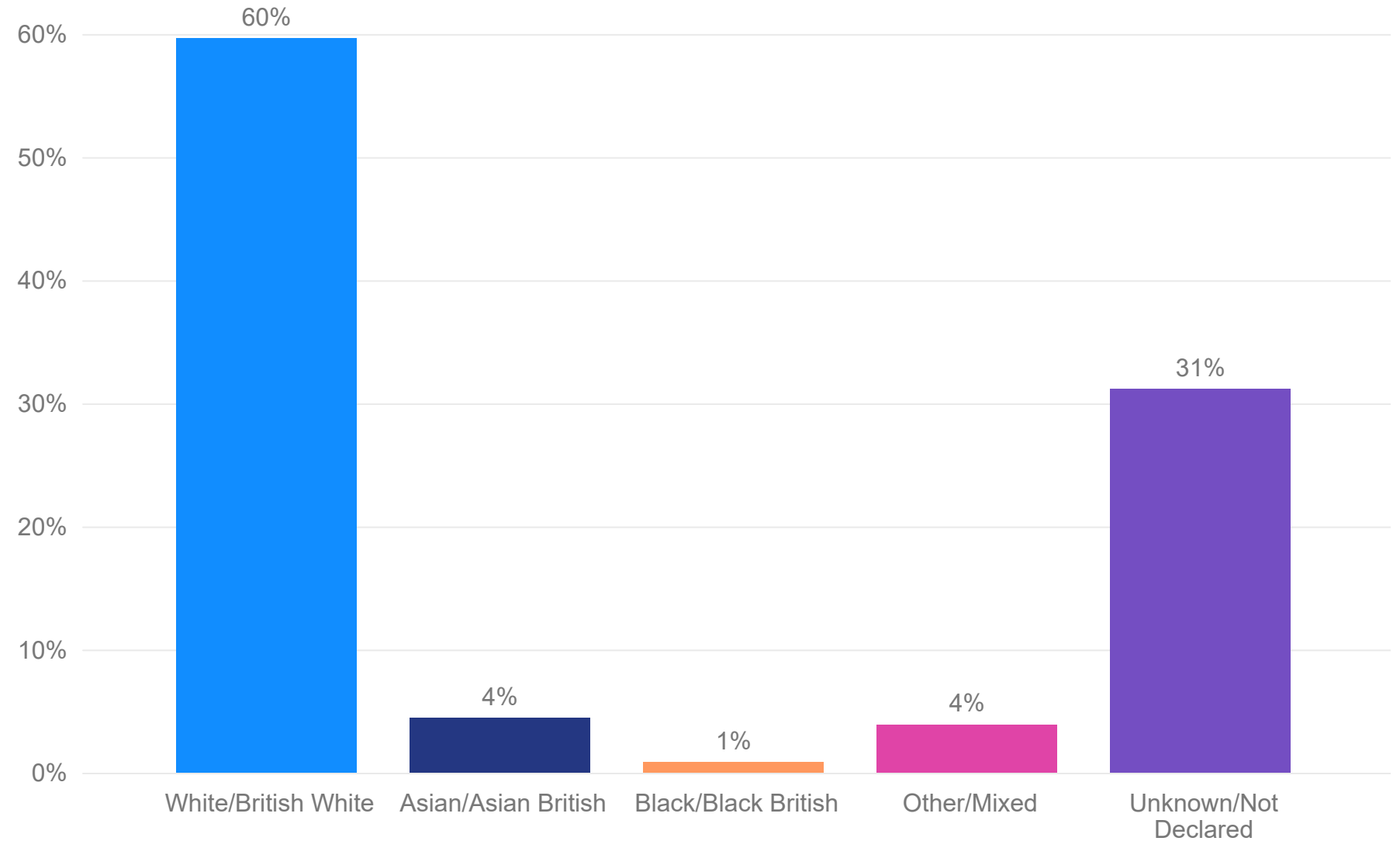


# Patient ethnicity (%) in 2021/22 - 2023/24 Financial Year HES Data



Select hospital

All



AVR	Aortic valve replacement	NACSA	National Adult Cardiac Surgery Audit
BCIS	British Cardiovascular Intervention Society	NHSE	NHS England
BCS	British Cardiovascular Society	NICOR	National Institute for Cardiovascular Outcomes Research
CABG	Coronary artery bypass grafting	NSTEMI	Non-ST-elevation myocardial infarction (heart attack)
COP	Clinical Outcomes Publication	NTN	National Training Number (UK trainee)
CVA	Cerebrovascular accident (stroke)	PCI	Percutaneous coronary intervention (stenting)
DOSA	Day of surgery admission	QA	Quality assurance
DSWI	Deep sternal wound infection	QI	Quality improvement
EACTS	European Association for Cardiothoracic Surgery	SCTS	Society for Cardiothoracic Surgery
ERAS	Enhanced recovery after surgery	STEMI	ST-elevation-myocardial infarction (heart attack)
GIRFT	Getting It Right First Time	TAVI	Transcatheter aortic valve implantation
GMC	General Medical Council	TIA	Transient ischaemic attack (transient mini-stroke)
HDU	High dependency unit	TVR	Tricuspid valve replacement or repair
Iso	Isolated		
ITU	Intensive therapy (care) unit		
LAAO	Left atrial appendage occlusion		
MVR	Mitral valve replacement		
MV	Mitral valve repair		

ANT St Anthony's Hospital, London  
BAL Barts Heart Centre, London  
BAS Basildon Hospital, Essex  
BHL Liverpool Heart and Chest Hospital  
BNH Nuffield Health at St Bartholomew's Hospital  
BRI Bristol Royal Infirmary  
CBS Spire Hospital, Southampton  
CHH Castle Hill Hospital, Hull  
CHN Nottingham City Hospital  
CCL Cleveland Clinic, London  
CRO Cromwell Hospital, London  
FRE Freeman Hospital, Newcastle  
GEO St George's Hospital, London  
GHB Spire Bristol Hospital  
GRL Glenfield Hospital, Leicester  
HAM Hammersmith Hospital, London  
HH Harefield Hospital, London  
HHW Wellington Hospital, London  
HSC Harley Street Clinic, London  
KCH Kings College Hospital, London  
LBH London Bridge Hospital, London  
LGI Yorkshire Heart Centre, Leeds

MAP Mater Private Hospital  
MAT Mater Misericordiae Hospital, Dublin  
MOR Morrision Hospital, Swansea  
MRI Manchester Royal Infirmary  
NCR New Cross Hospital, Wolverhampton  
NGS Northern General Hospital, Sheffield  
NHB Royal Brompton Hospital, London  
PAP Royal Papworth Hospital, Cambridge  
PLY Derriford Hospital, Plymouth  
QEB Queen Elizabeth Hospital, Birmingham  
RAD John Radcliffe Hospital, Oxford  
RSC Royal Sussex County Hospital, Brighton  
RVB Royal Victoria Hospital, Belfast  
SCM James Cook University Hospital, Middlesbrough  
SGH Southampton General Hospital  
SPN Spire Hospital, Nottingham  
STH St Thomas' Hospital, London  
STO University Hospital of North Staffordshire, Stoke  
UCL University College Hospital, London  
UHW University Hospital of Wales, Cardiff  
VIC Blackpool Victoria Hospital  
WAL University Hospital, Coventry  
WYT Wythenshawe Hospital, Manchester



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