

Research performance in NHS Wales – 2018/19

Business Intelligence Report
Version 1.0
28 June 2019

How to use this business intelligence report (1)

This slide is part of the explanatory notes for the Research performance in NHS Wales – 2018/19 (Business Intelligence Report).

These notes are to be used in conjunction with the following slides

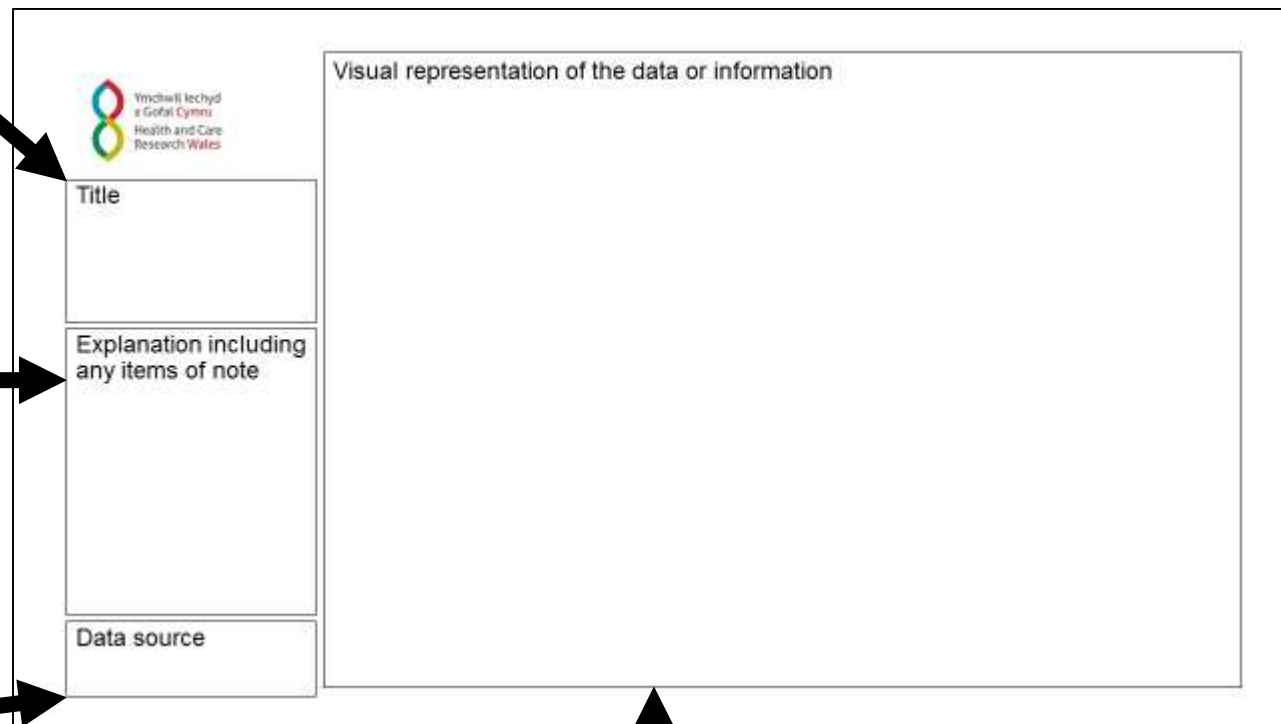
Business Intelligence report – slide layout

Title: concisely describes the data or information being conveyed.

Explanation: describes the data or information being conveyed in more detail than the title.

This may include items of note or caveats to explain the reasons for inclusion or exclusion of certain data or information.

Data source: describes the data or information source used to obtain data for interrogation or manipulation.



Visual representation: a visual (graphical or tabular) representation of the data following interrogation or manipulation.

Note: Any additional information included with the visual representation is intended to further explain the visual.

How to use this business intelligence report (2)

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NHS Organisations

The NHS organisation names used in this report are those up to 31 Mar 2019. Where the organisation names are abbreviated, they are usually abbreviated as follows:

	NHS Organisation
ABM	Abertawe Bro Morgannwg University Health Board
AB	Aneurin Bevan University Health Board
BC	Betsi Cadwaladr University Health Board
CV	Cardiff and Vale University Health Board
CT	Cwm Taf University Health Board
HD	Hywel Dda University Health Board
PT	Powys Teaching Health Board
PHW	Public Health Wales
VNHST	Velindre University NHS Trust
WAST	Welsh Ambulance Services NHS Trust

Primary Care Research Incentive Scheme (PiCRIS)

The PiCRIS financial award for GP practices is dependent on certain criteria. The PiCRIS levels are as follows:

Funding Level			Peer support to other practices
	≥ 2 studies	≥ 5 studies	
Level 2+		✓	✓
Level 2		✓	
Level 1	✓		
Affiliate	No set study delivery target. Practices can access PiCRIS benefits. No financial award.		

Research Directory

The following Health and Care Research Wales Directory categories are used in the report.

Classification	Definition	
Portfolio	Non commercial	High-quality, non-commercial research studies that meet defined eligibility criteria for: <ul style="list-style-type: none"> - Source of funding; - Open competition; and - High quality peer review.
	Commercial	Commercial contract research studies that are industry funded and industry sponsored.
Non-Portfolio		Research studies that do not meet the portfolio eligibility criteria. This includes 'Pathway to Portfolio'.
	Pathway to Portfolio	Research studies with Health and Care Research Wales funded activities undertaken to inform the development of a portfolio study or a grant application for a portfolio study.

Site identification

The site identification service enables sponsors (or authorised delegates) to gather expressions of interest (EoI) from the NHS in research opportunities. NHS organisations and GP practices can be notified of research opportunities express and interest in participating.

How to use this business intelligence report (2)

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Specialty

Researchers must assign their studies to one of thirty managing specialties, which is the disease area most relevant to the study. In England, the managing specialty may be selected depending on where the study is being delivered, for example a diabetes study may be mapped to Primary Care if GPs are recruiting participants. Supporting specialties are selected by the researcher to confirm any other relevant disease area. This is why in Wales, much of our reporting is focused on all specialties, rather than solely on managing specialty.

Adjustments

Data adjustment has been performed to allow appropriate comparisons of research activity in Wales to specific organisations or similar areas in England, These adjustments have been based on population size.

Comparative benchmarking has been completed against the NIHR Local Clinical Research Networks (LCRNs) of Greater Manchester and of North East & North Cumbria. These have been used as comparators as they have a similar population to Wales, and North East & North Cumbria is similar in rurality to Wales.

Additional benchmarking against specific NHS England organisations has been included where identified by NHS organisations in Wales.

Note: No comparable organisation was identified for Public Health Wales, so this has not been included.

Research Study Categories

The following complexity band have been used when categorising research studies. These bands differentiate between study complexity and their associated costs.

Complexity band	Definition
Interventional studies	A study where the participants' exposure to a particular intervention (e.g. care pathway or lifestyle) is influenced by participating in the study (e.g. whether or not a participant receives a particular treatment will be determined by the research protocol).
Observational studies	A study in which the participants' lifestyle or care pathway is not affected by being part of the study (e.g. the investigator does not determine whether or not participants receive or do not receive a particular treatment).
Large sample studies	A study where the total UK planned sample size (throughout the lifetime of the study), is equal to, or greater than 10,000 participants. This can be an observational or interventional study, but the key factor to determine the band is the total planned sample (participant) size of the study.
Commercial studies	Commercial contract research studies that are industry funded and industry sponsored.

How to use this business intelligence report (4)

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Performance against key indicators

Performance against key indicators is calculated and rated as follows:

Open to recruitment studies:

$$\text{RAG Rating} = \% \text{ recruitment} - \% \text{ time elapsed}$$

$$\% \text{ recruitment} = \frac{\text{Actual recruitment total}}{\text{Target recruitment}}$$

$$\% \text{ time elapsed} = \frac{\text{Number of days open}}{\text{Number of days planned open}}$$

Note: (Number of days open = End date of reporting period – Actual opening date)
(Number of days planned open = Planned closure to recruitment date – Actual opening date)

RAG ratings for open to recruitment studies:

Rating	Definition
RED	% recruitment is 30% behind the % time elapsed (e.g.: RAG Rating = -30% or less)
AMBER	% recruitment is up to and including 30% behind % time elapsed (e.g.: RAG Rating = ≤ -1% ≥ -29%)
GREEN	% recruitment is equal to or is greater than % time elapsed (e.g.: RAG Rating = ≥ 0%)

Closed to recruitment studies:

$$\text{RAG Rating} = \% \text{ recruitment}$$

$$\% \text{ recruitment} = \frac{\text{Actual recruitment total}}{\text{Target recruitment}}$$

RAG ratings for closed to recruitment studies:

Rating	Definition
RED	% recruitment is < 100%
GREEN	% recruitment ≥ 100%

Excluded data:

The excluded data or studies include:

Rating	Definition
BLACK	<ul style="list-style-type: none"> Primary care studies – Due to the variation in approaches taken by NHS organisation in planning study recruitment targets, Welsh Government have decided that primary care studies will be excluded for now. Any studies that have not been open to recruitment within the time period of report (including any studies that have been withdrawn/suspended). PIC studies. Any studies missing accurate data that is required to evaluate performance as above.

Contents

1. Research opportunities provided to NHS patients / service users in Wales
2. How we compare
3. Promoting Wales: responding to and attracting Sponsors to Wales to increase research in Wales for patient benefit
4. Welsh led research
5. Research delivery performance in Wales

Section 1

Research opportunities provided to NHS patients / service users in Wales

This section includes:

- An overview of the research opportunities provided in 2018/19
- A comparison with the other UK nations in terms of opportunities provided to their patients and service users
- Proportion of studies that have been set up and have recruited participants against those that have not recruited participants yet
- An overview of the opportunities for research provided in General Practices in Wales
- The types of research studies being undertaken in Wales by status
- Insight into the most prevalent diseases in the University Health Boards in Wales and how much research activity is happening in these areas
- The response to opportunities for commercial research provided by the Site Identification process
- PIs in Wales mapped onto the specialty areas
- Detailed information on the numbers of studies mapped onto specialty areas

Note:

- The activity data presented in this section includes both secondary care and primary care activity. However, primary care data is not included in any analysis related to delivery of studies to target due to lack of and inconsistency of target data.



20,879

participants recruited in 2018/19

Up 5,067 from 2017/18

Source: 2018/19 Performance report
commercial & non-commercial

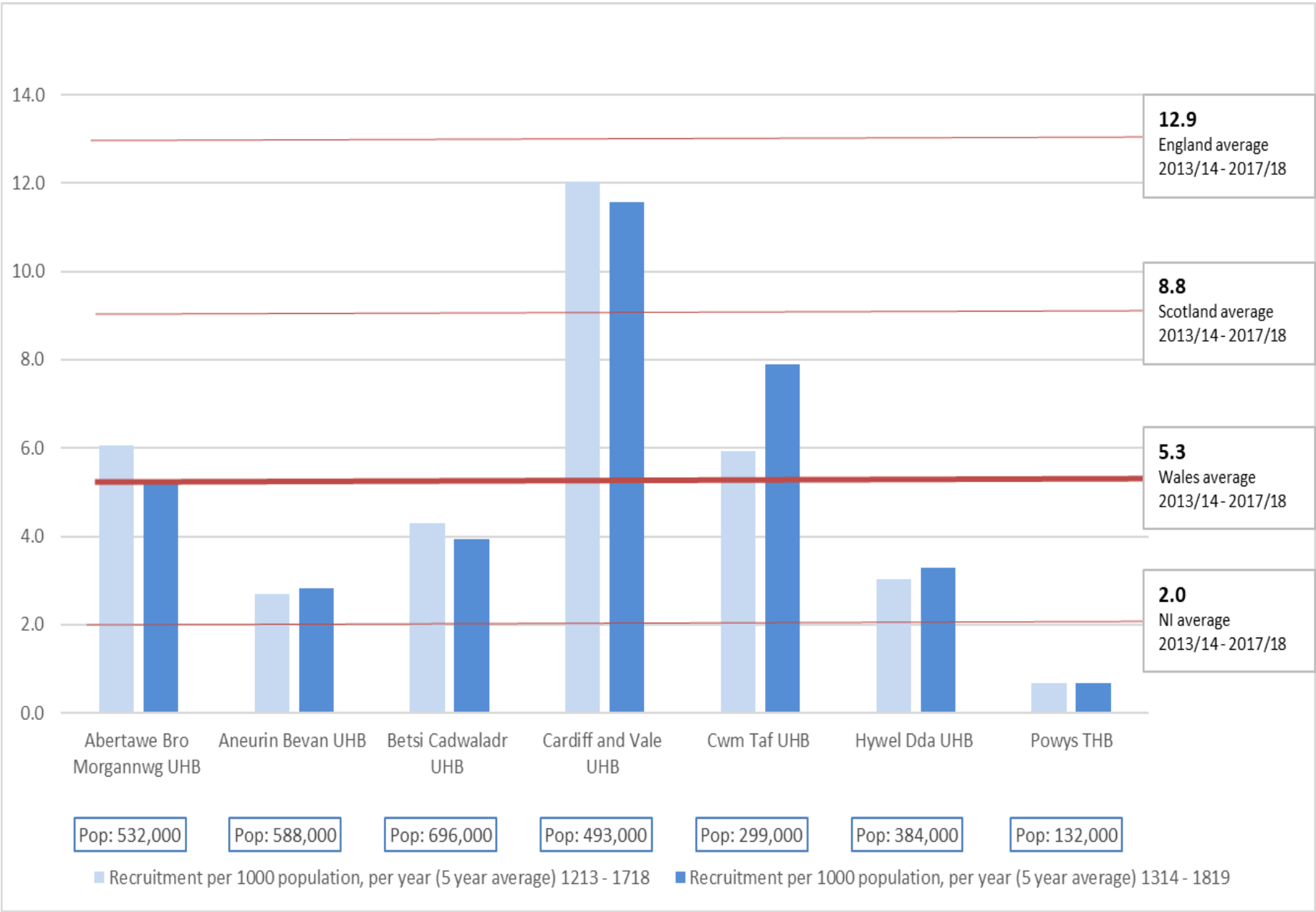
Recruitment per 1000 population by health board

This chart shows the number of participants per 1000 population by health board in Wales, as an average over the last 5 years.

The 5 year Wales average has not changed significantly from last year, but noteworthy increases this year include ABUHB, CTUHB & HDUHB.

Note: This includes non-commercial and commercial studies.

Source: CPMS Open Data Platform non-commercial and commercial activity.

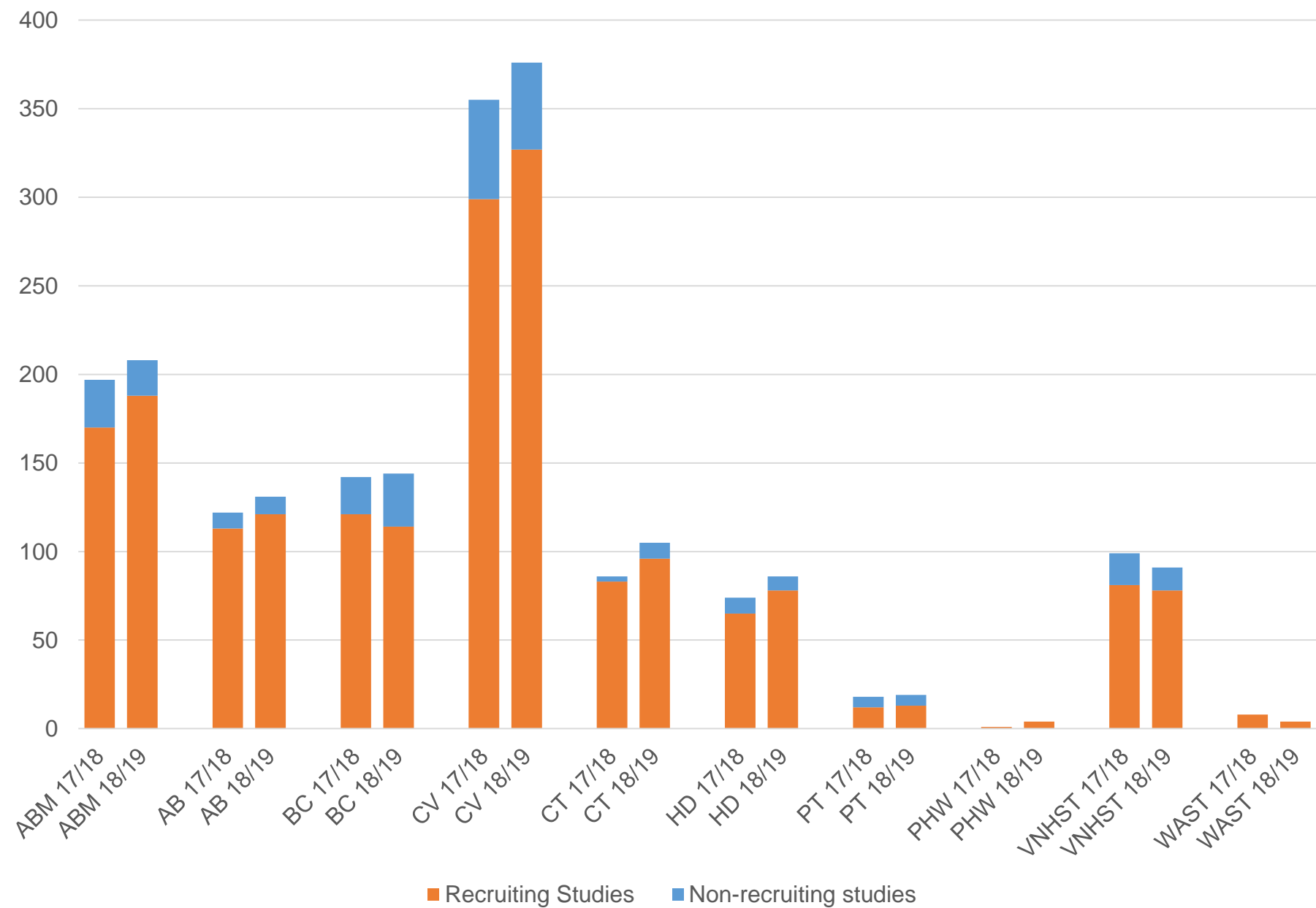


Number of open studies by NHS organisation and proportion that have recruited

This chart shows a comparison of the number of studies open by financial year and the proportion of those that have recruited.

The majority of organisations have increased the number of open studies although the proportion of recruiting studies is variable.

Source: NHS Research Performance Reports – Non-commercial and Commercial activity



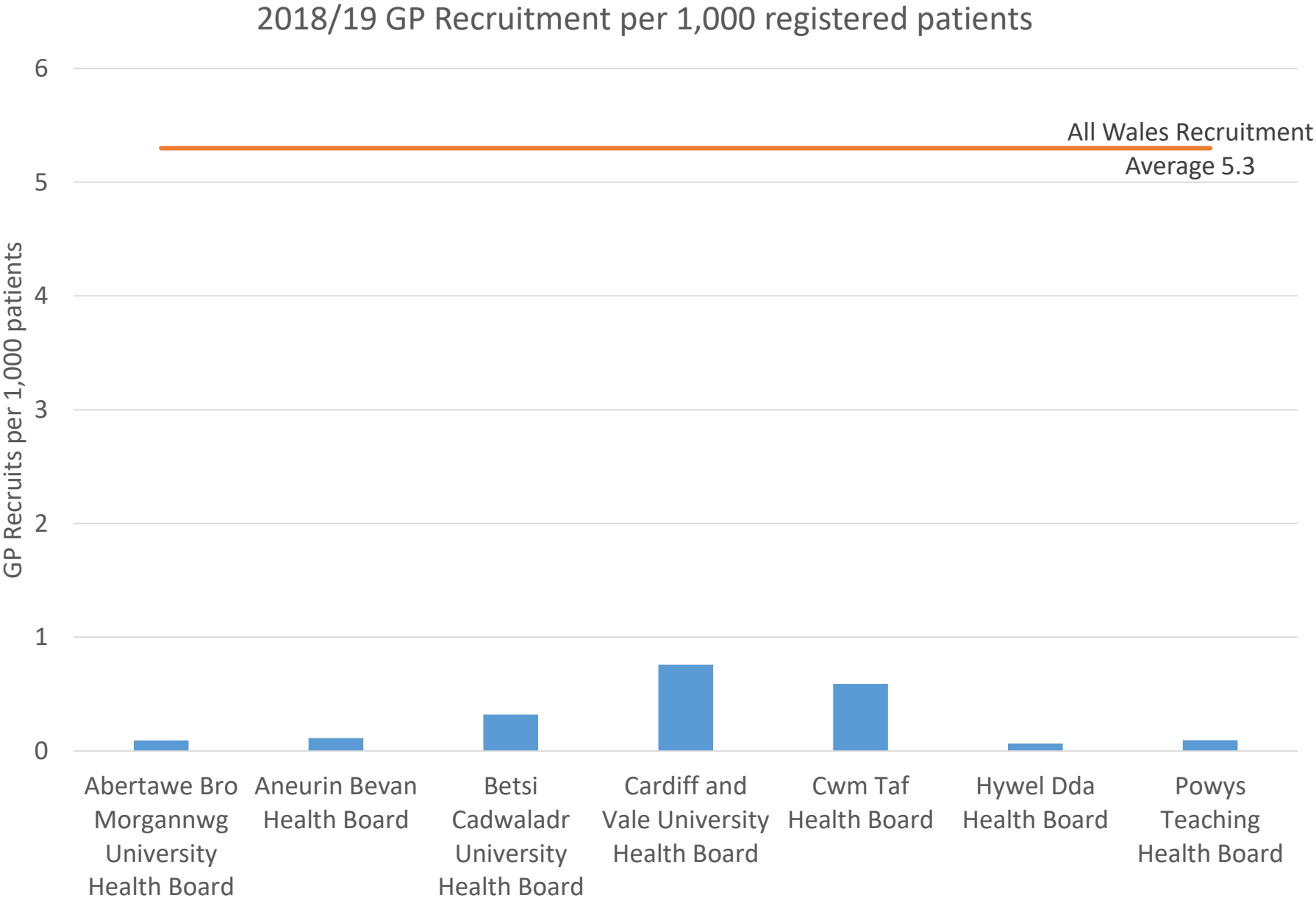
Recruitment activity* as a proportion of the total General Practice list size by NHS organisations

This chart shows the recruitment activity by health board per 1,000 GP registered patients.

This demonstrates that current recruitment in primary care is significantly below the All Wales average of 5.3 per 1000 at less than 1 participant per 1000 population registered with GPs.

*Includes recruitment registered directly with GP sites

Source: Open Data Platform, Non-commercial and commercial activity

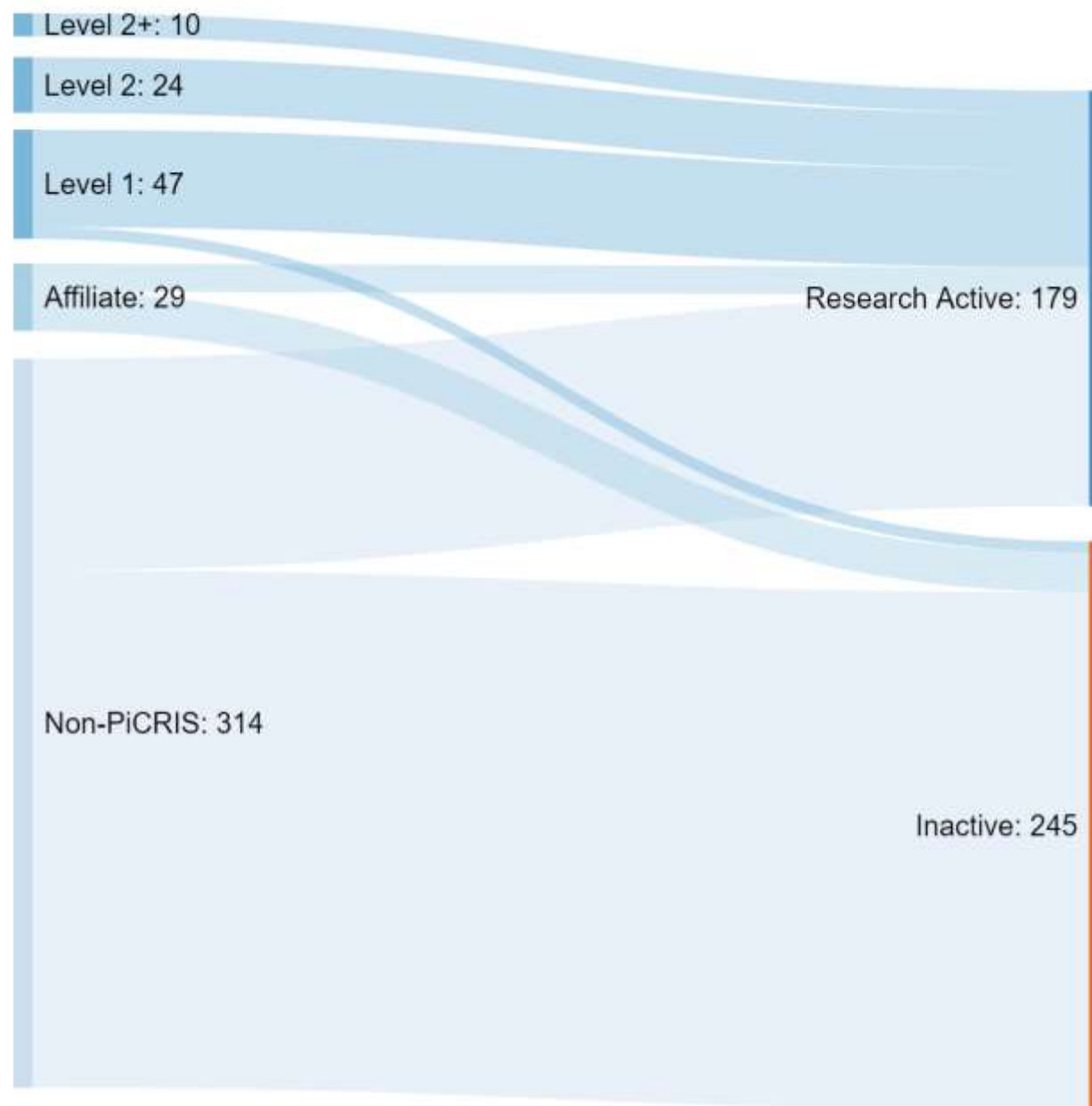


Proportion of research active General Practices in Wales, as well as those in receipt of PiCRIS support and their activity

This chart shows the proportion of the total Wales GP practices that are:

- Research active
- PiCRIS practices, by PiCRIS level and activity.

Source: Open Data Platform



Notes

The 424 GP **practices** in Wales are split on the left hand side by their PiCRIS level and on the right by whether they are research active or inactive.

The lines joining the 2 sides show the proportion of studies of each PiCRIS level that are active/inactive with a thicker line representing more practices.
e.g. Level 1 practices are mostly active whereas there are slightly more inactive affiliate practices than active

Practices are considered research active if they have portfolio recruitment or PIC activity in the last 3 years.



General Practice research recruitment* as a proportion of all Wales research activity

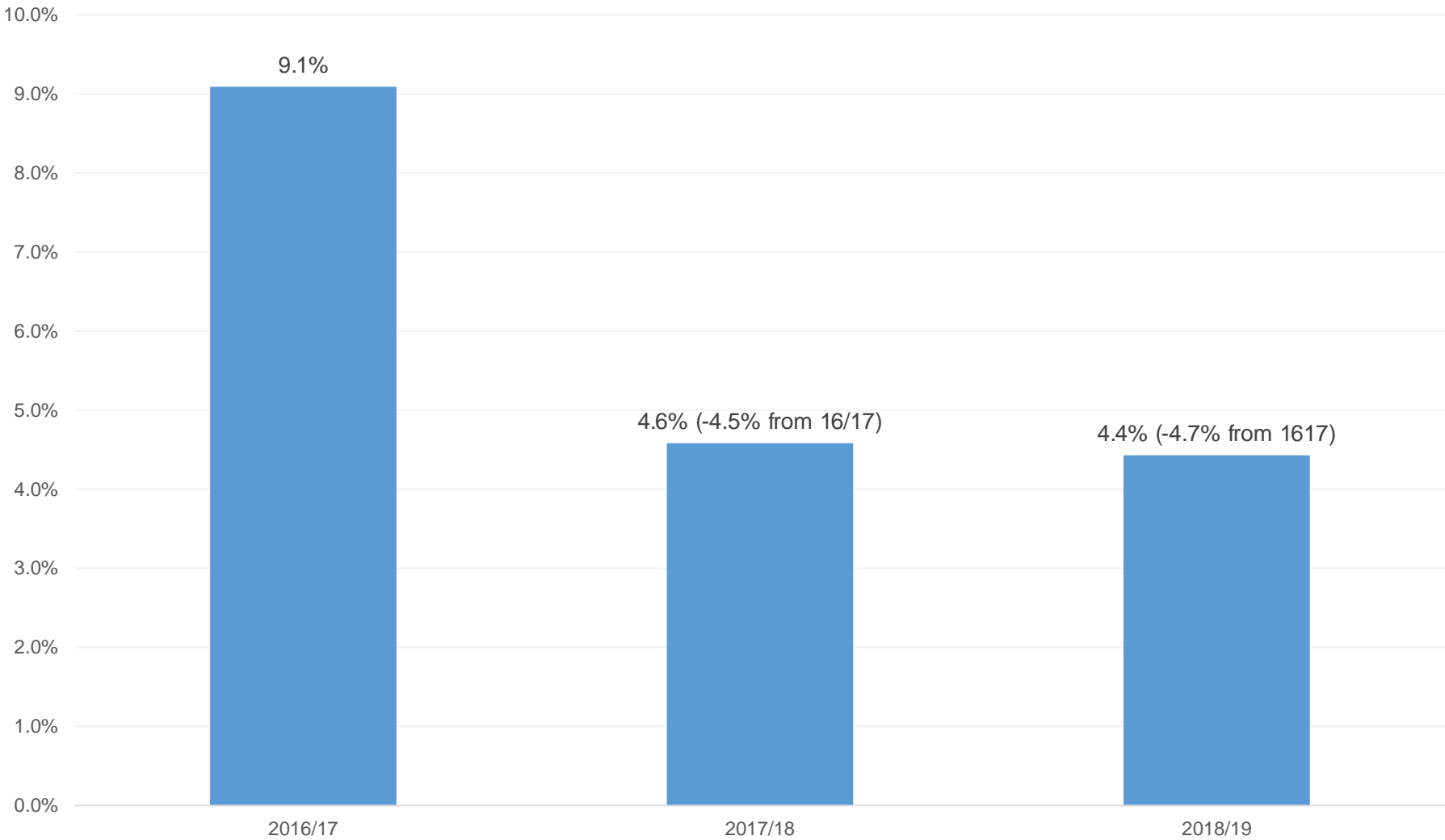
This chart shows a comparison of the GP recruitment activity as a proportion of the all Wales research activity, and change by financial year.

This shows a fall since 2016/17 with only 4.4% of recruitment from GP practices in 2018/19.

*Includes recruitment registered directly with GP sites

Source: Open Data Platform

GP Proportion of recruitment activity



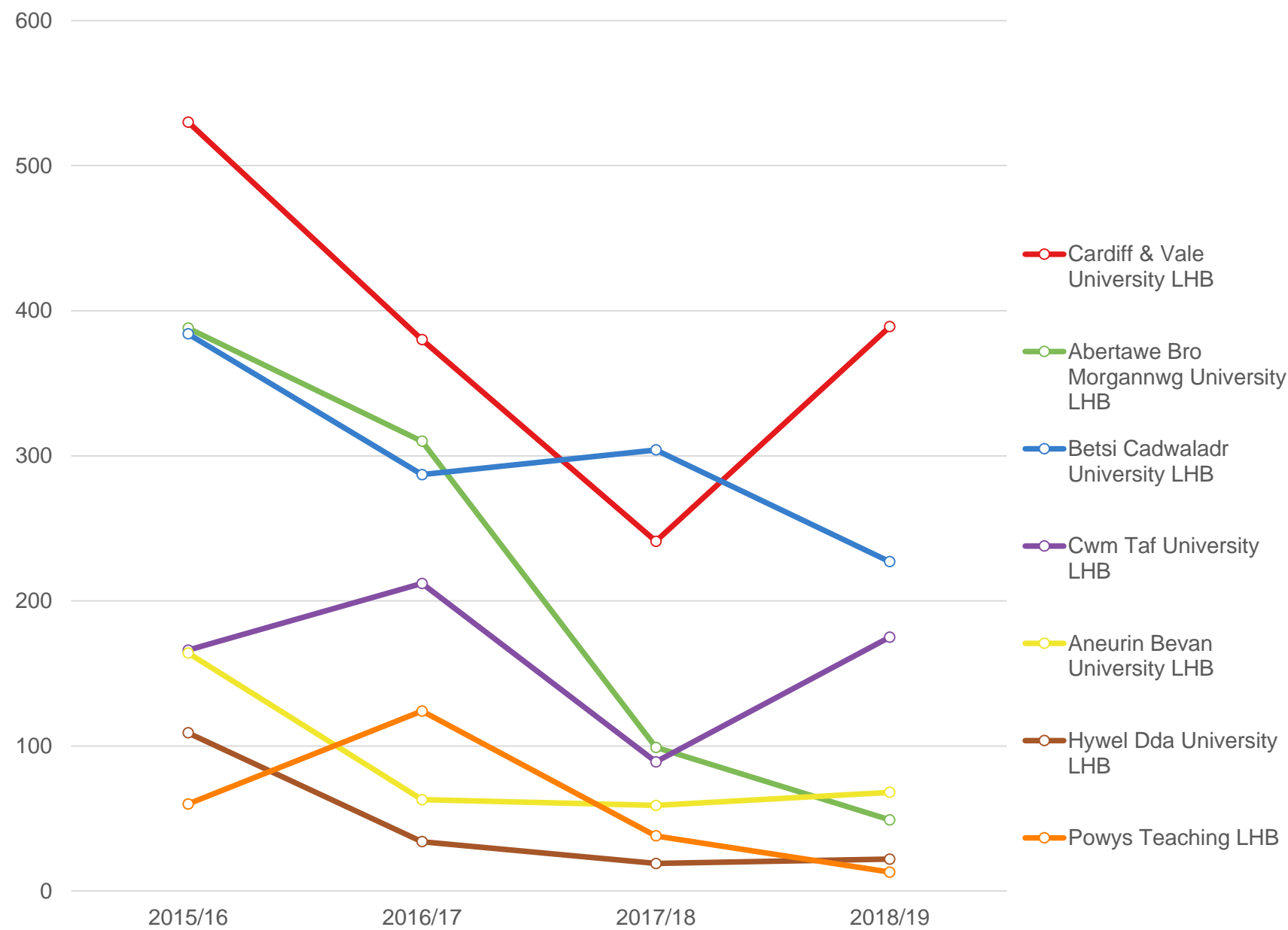
Note: 70% of 2016/17 recruitment was for 3 large studies: Primary care screening in PAD, TIME and CANDID

Recruitment at General Practices by NHS organisations

This chart shows the recruitment at General Practices by NHS organisations and change by financial year.

The highest number of participants recruited in 2018/19 did not exceed 400.

Source: CPMS Open Data Platform non-commercial and commercial activity.

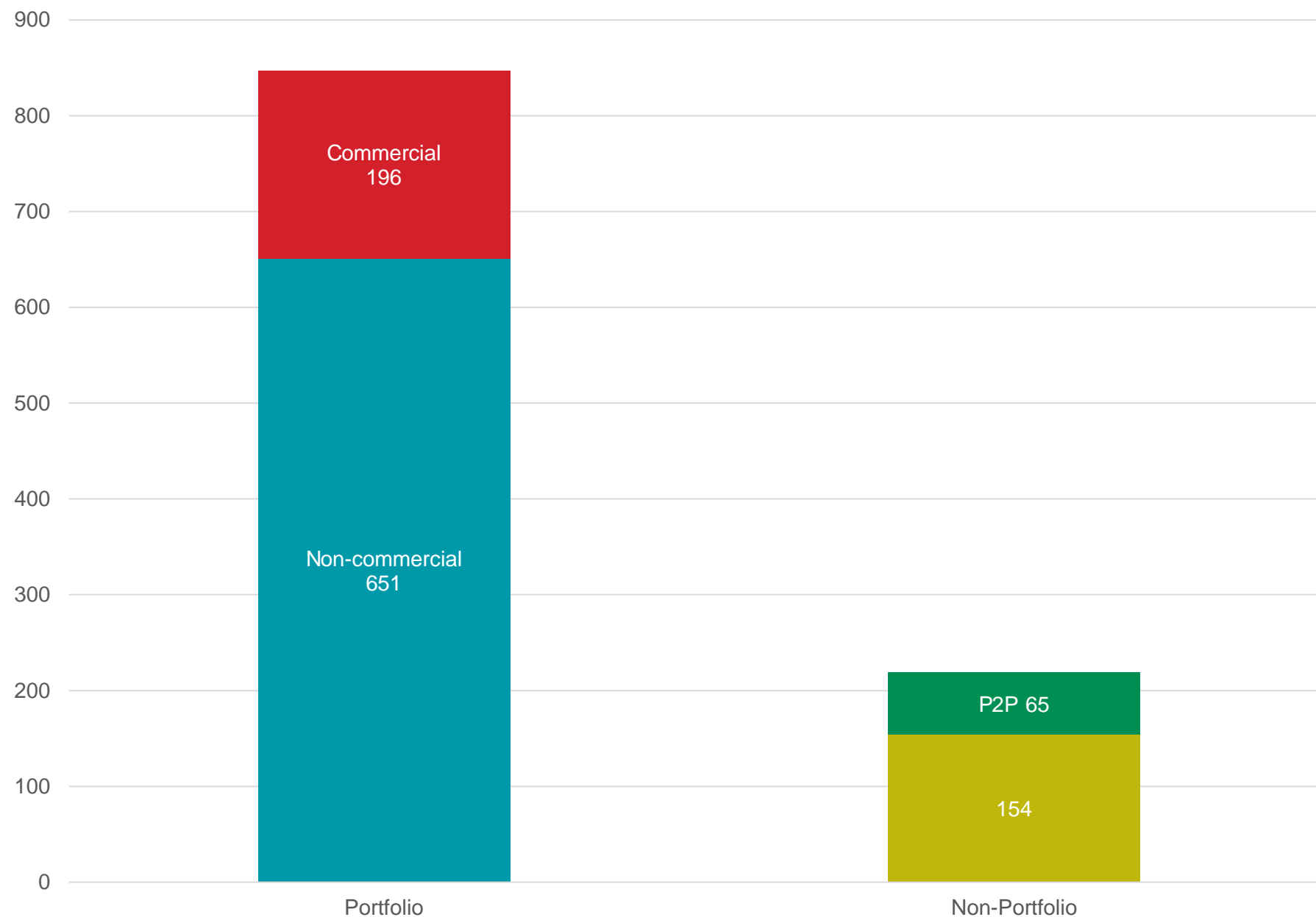


Number of active studies in Wales by Portfolio status

This chart shows the number of active studies in Wales in 2018/19 which are:

- Portfolio (non-commercial and commercial)
- Non-Portfolio (including Pathway to Portfolio)

Source: NHS Research Performance Report & HRA Assessment Review Portal (HARP)



Top 10 Disease prevalence areas by Health Board

This table shows the top 10 diseases by prevalence for each Health Board.

The top 4 are the same for all Health Boards.

Note: Prevalence data is taken from the Quality and Outcomes Framework disease registers and so is limited to the conditions that are tracked by the framework.

Source: Welsh Government Quality and Outcomes Framework Statistics 2017/18

	AB UHB	ABM UHB	BC UHB	CV UHB	CT UHB	HD UHB	PT HB
1	Hypertension - 16.1%	Hypertension - 15.3%	Hypertension - 16.6%	Hypertension - 12.4%	Hypertension - 16.8%	Hypertension - 16.6%	Hypertension - 17.3%
2	Obesity - 11.1%	Obesity - 10%	Obesity - 8.4%	Obesity - 7.8%	Obesity - 12.3%	Obesity - 9.7%	Obesity - 9.8%
3	Asthma - 6.9%	Asthma - 7.4%	Asthma - 7.2%	Asthma - 6.7%	Asthma - 7.1%	Asthma - 6.9%	Asthma - 7%
4	Diabetes - 6.5%	Diabetes - 6.2%	Diabetes - 5.9%	Diabetes - 4.9%	Diabetes - 6.4%	Diabetes - 6.4%	Diabetes - 6.3%
5	Coronary Heart Disease - 3.7%	Coronary Heart Disease - 3.8%	Coronary Heart Disease - 3.9%	Coronary Heart Disease - 2.7%	Coronary Heart Disease - 3.7%	Coronary Heart Disease - 4.1%	Coronary Heart Disease - 4%
6	Cancer - 2.8%	Cancer - 2.9%	Cancer - 3.3%	Cancer - 2.5%	COPD - 2.8%	Cancer - 3.4%	Cancer - 3.5%
7	COPD - 2.2%	Atrial Fibrillation - 2.3%	COPD - 2.6%	Atrial Fibrillation - 1.7%	Cancer - 2.7%	Atrial Fibrillation - 2.8%	Atrial Fibrillation - 2.7%
8	Atrial Fibrillation - 2.1%	Stroke and Ischaemic Attacks - 2.3%	Atrial Fibrillation - 2.4%	Stroke and Ischaemic Attacks - 1.7%	Atrial Fibrillation - 2.1%	Stroke and Ischaemic Attacks - 2.3%	Stroke and Ischaemic Attacks - 2.5%
9	Stroke and Ischaemic Attacks - 2%	COPD - 2.2%	Stroke and Ischaemic Attacks - 2.1%	COPD - 1.6%	Stroke and Ischaemic Attacks - 2%	COPD - 2.3%	COPD - 2.3%
10	Heart Failure - 1%	Mental Health (Severe Illness) - 1.1%	Heart Failure - 1.1%	Mental Health (Severe Illness) - 0.9%	Mental Health (Severe Illness) - 0.9%	Heart Failure - 1.2%	Heart Failure - 1.2%

Non-commercial & commercial research recruitment activity as a proportion of disease prevalence

This chart shows the research recruitment activity as a proportion of 5 of the top disease prevalence areas in Wales and by NHS organisation.

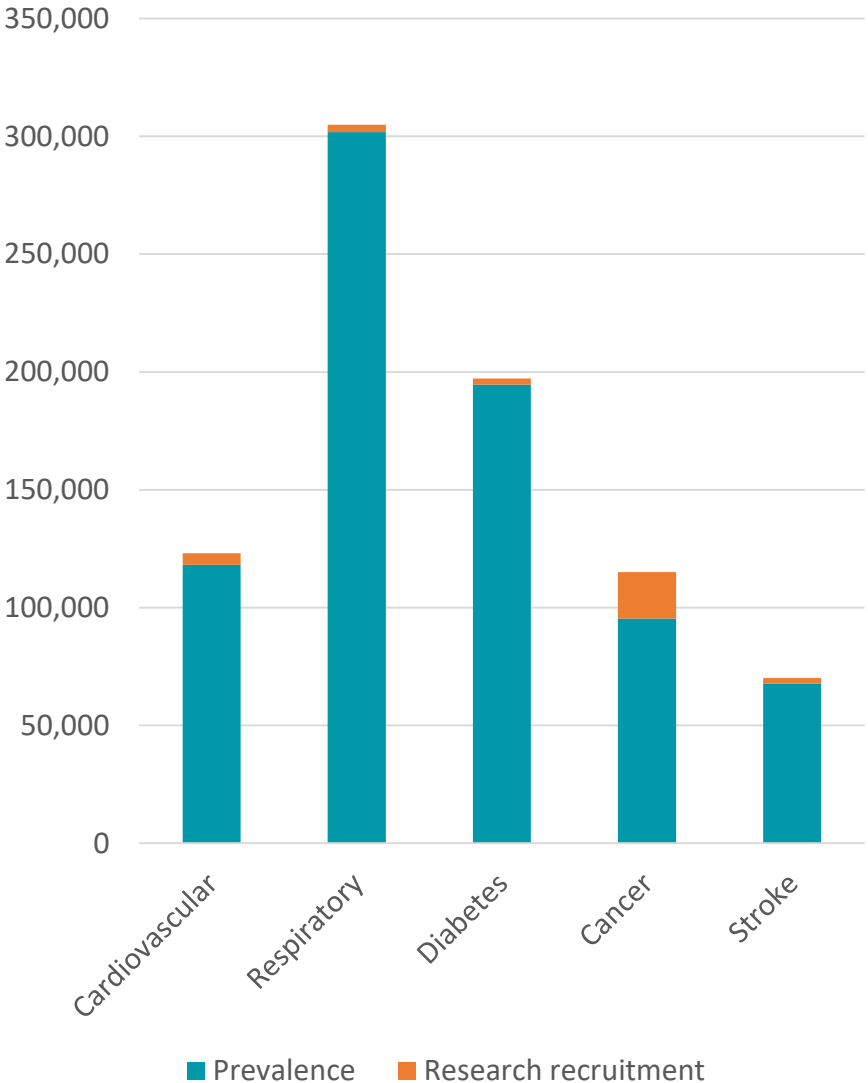
For the purposes of comparison to specialty areas, the closest or most appropriate specialty has been selected as not all prevalence areas map directly to specialties

Note: Prevalence data is taken from the Quality and Outcomes Framework disease registers and so is limited to the conditions that are tracked by the framework

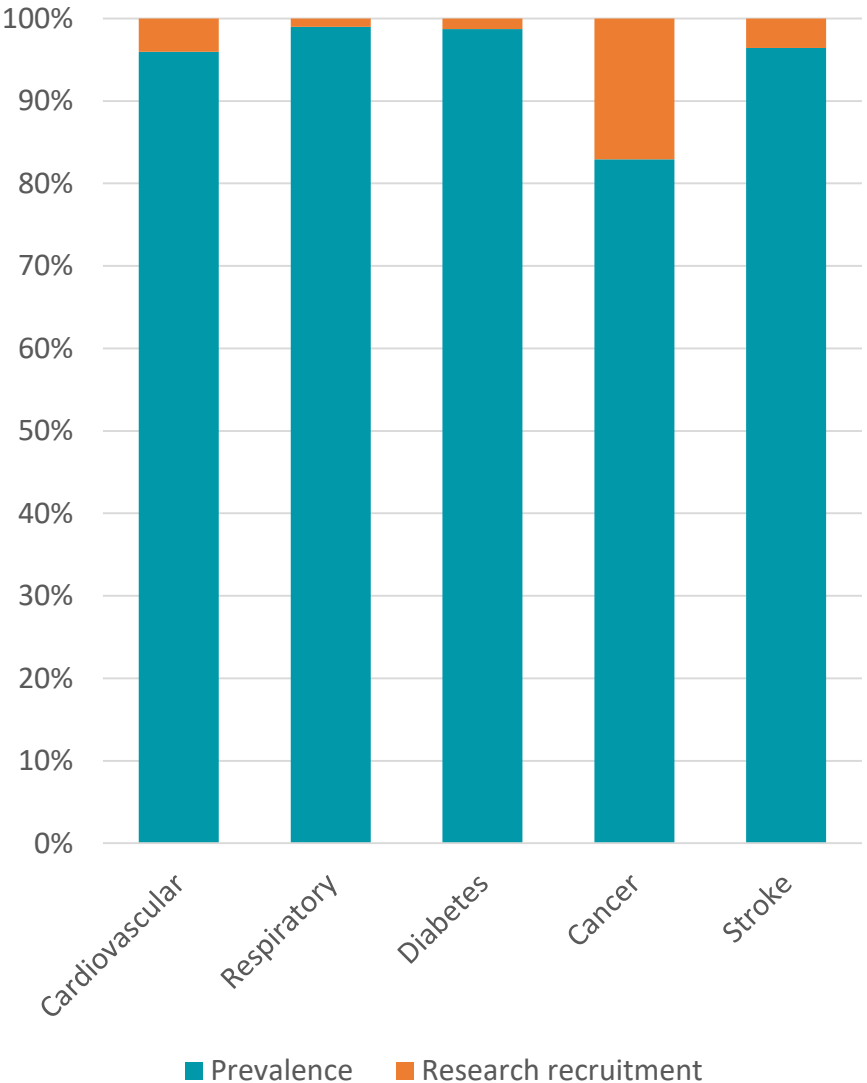
Source: Activity data: Open Data Platform.

Disease prevalence data: Welsh Government Quality and Outcomes Framework Statistics 2017/18

Research recruitment numbers vs. prevalence



Research recruitment activity as a proportion of prevalence



Commercial Site Identification - responses to Expressions of Interest (Eoi) for most prevalent areas

The site identification process is a UK wide service for commercial sponsors to enable them to gauge initial interest in studies from NHS organisations and General Practices.

This chart shows the site identification responses for 6 of the top disease prevalence areas in Wales, where it is possible to map specialties to prevalence areas.

Response rate is cumulative on the basis of number of NHS organisations responding.

Source: Support and Delivery Centre: Industry team, Eols sent 2018/19

Eoi Response rates, top prevalence areas:

Eols sent (No. Studies)		Specialty & Prevalence	Positive Response Rate	
<div></div>	707 (102)	Cancer - 3.0%	8%	<div></div>
<div></div>	56 (8)	Cardiology - 3.7%	5%	<div></div>
<div></div>	46 (6)	Diabetes - 6.0%	17%	<div></div>
<div></div>	103 (15)	Musculoskeletal - 1.0%	7%	<div></div>
<div></div>	172 (22)	Respiratory - 9.3%	9%	<div></div>
<div></div>	15 (2)	Stroke - 2.1%	0%	<div></div>

Reasons for negative responses:

Specialty	No. of studies	Clinician Not Interested	No Facilities	No Patients	No Patients/ Facilities	No Response from Clinician	No Response from R&D	No Suitable PI	No Time for Research	No Time for this Study	Study Design not suitable	Grand Total
Cancer	102	25	18	89	2	9	336	37	3	34	8	561
Cardiology	8	2	1	5		4	36	1		3		52
Diabetes	6	1		4		2	18	3	1			29
Musculoskeletal	15	4	2	5		4	58	12	1	8	2	96
Respiratory	22	5		9		6	99	4	3	19	1	146
Stroke	2	1	1			1	11			1		15
Grand Total	155	38	22	112	2	26	558	57	8	65	11	899

Responses by speciality to commercial Expressions of Interest (Eol) opportunities

This charts shows the analysis of response categories to commercial Eol opportunities by managing speciality.

The highest positive response rate is in public health with 4 out of 8 studies, followed by Ageing, Anaesthesia and Hepatology.

Source: Support and Delivery Centre: Industry team Eols sent 2018/19

Eols sent (No. Studies)	Specialty	Positive Response Rate
16 (3)	Ageing	25%
8 (2)	Anaesthesia	25%
707 (102)	Cancer	8%
56 (8)	Cardiology	8%
15 (2)	Critical Care	13%
8 (1)	Dementia	0%
96 (12)	Dermatology	6%
46 (6)	Diabetes	15%
23 (3)	ENT	9%
87 (11)	Gastro	2%
48 (7)	Haematology	4%
24 (4)	Hepatology	25%
23 (3)	Infection & Immunity	17%
40 (5)	Mental Health	6%
15 (2)	Metabolic and Endocrine	7%
103 (15)	Musculoskeletal	7%
32 (6)	Neurology	2%
32 (4)	Ophthalmology	3%
175 (24)	Paediatrics	6%
30 (4)	Primary Care	17%
8 (1)	Public Health	50%
63 (8)	Renal	4%
172 (22)	Respiratory	9%
15 (2)	Stroke	0%
15 (2)	Surgery	20%

Reasons for Negative / No responses to commercial Expressions of Interest (Eol) opportunities

This charts shows the analysis of the reasons for negative / no response to commercial Eol opportunities by managing speciality.

As expected, the highest non-response is in Cancer which corresponds the highest number of opportunities. However, the highest proportion of negative responses are when no response has been received at all.

The grand total is the sum of negative responses only.

Support and Delivery Centre: Industry team Eols sent 2018/19

Specialty	No. of studies	Clinician Not Interested	No Facilities	No Patients	No Patients/ Facilities	No Response from Clinician	No Response from R&D	No Suitable PI	No Time for Research	No Time for this Study	Study Design not suitable	Grand Total
Ageing	3						3				1	4
Anaesthesia	2			1			3	2				6
Cancer	102	25	18	89	2	9	336	37	3	34	8	561
Cardiology	8	2	1	5		4	36	1		3		52
Critical Care	2	1		1		2	9					13
Dementia	1		3				3	1				7
Dermatology	12	1		7		1	53			16	1	79
Diabetes	6	1		4		2	18	3	1			29
ENT	3		1			2	14	1			2	20
Gastro	11	2	2	5		5	50	5		8	3	80
Haematology	7	2		9		2	26	2	1	4		46
Hepatology	4			3		1	9	4		1		18
Infection & Immunity	3	1		3		1	11	2			1	19
Mental Health	5	1		3		4	23	6		2		39
Metabolic and Endocrine	2		2	2			6	3		1		14
Musculoskeletal	15	4	2	5		4	58	12	1	8	2	96
Neurology	6	1		4	1	3	16	2		3		30
Ophthalmology	4	1		1		1	13	2		4		22
Paediatrics	24	9	3	16	5	1	92	21		11	1	159
Primary Care	4					1	13	1		1		16
Public Health	1	1					2			1		4
Renal	8	1	1	7		2	37	8		2		58
Respiratory	22	5		9		6	99	4	3	19	1	146
Stroke	2	1	1			1	11			1		15
Surgery	2					2	5	5				12
Grand Total		71	35	175	70	109	977	134	11	129	20	1731

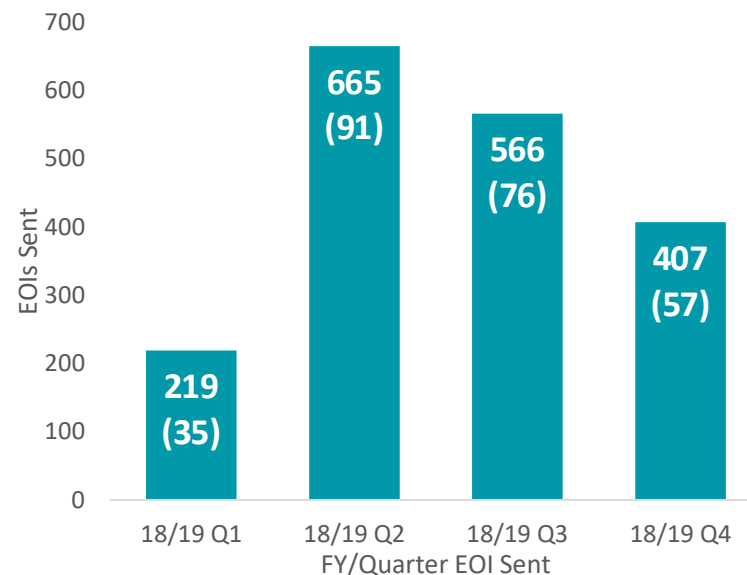


All Wales responses to commercial Expressions of Interest (Eoi) opportunities

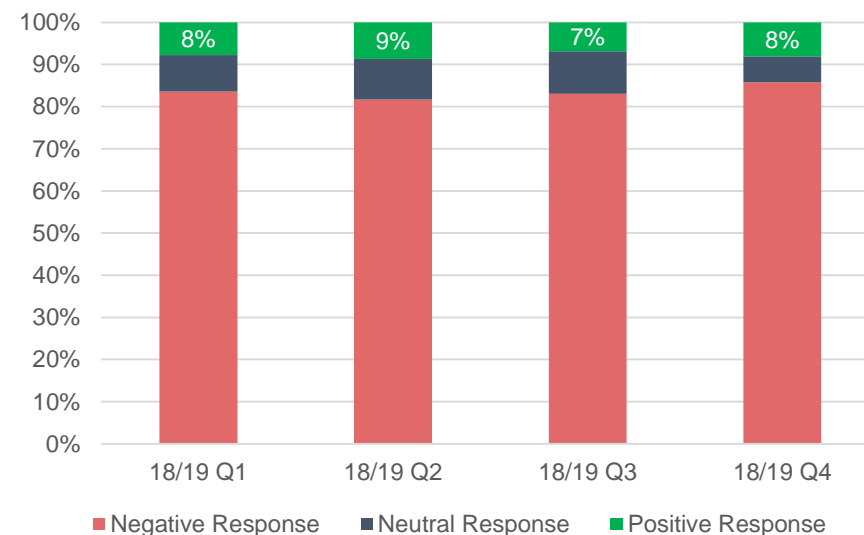
This charts shows the quarterly analysis of all Wales responses to commercial Eoi opportunities by NHS organisation by response category.

Source: Support and Delivery Centre - Industry team Eols sent 2018/19

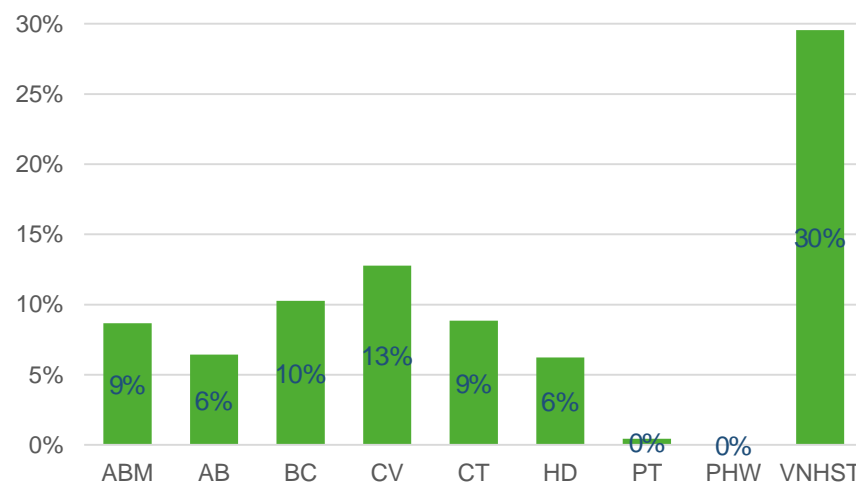
All Wales - EOIs Sent (No. studies)



All Wales - EOI Response Split



Positive Response Rate per HB



This shows an overall response rate of under 10% for all EOIs sent.

Note:

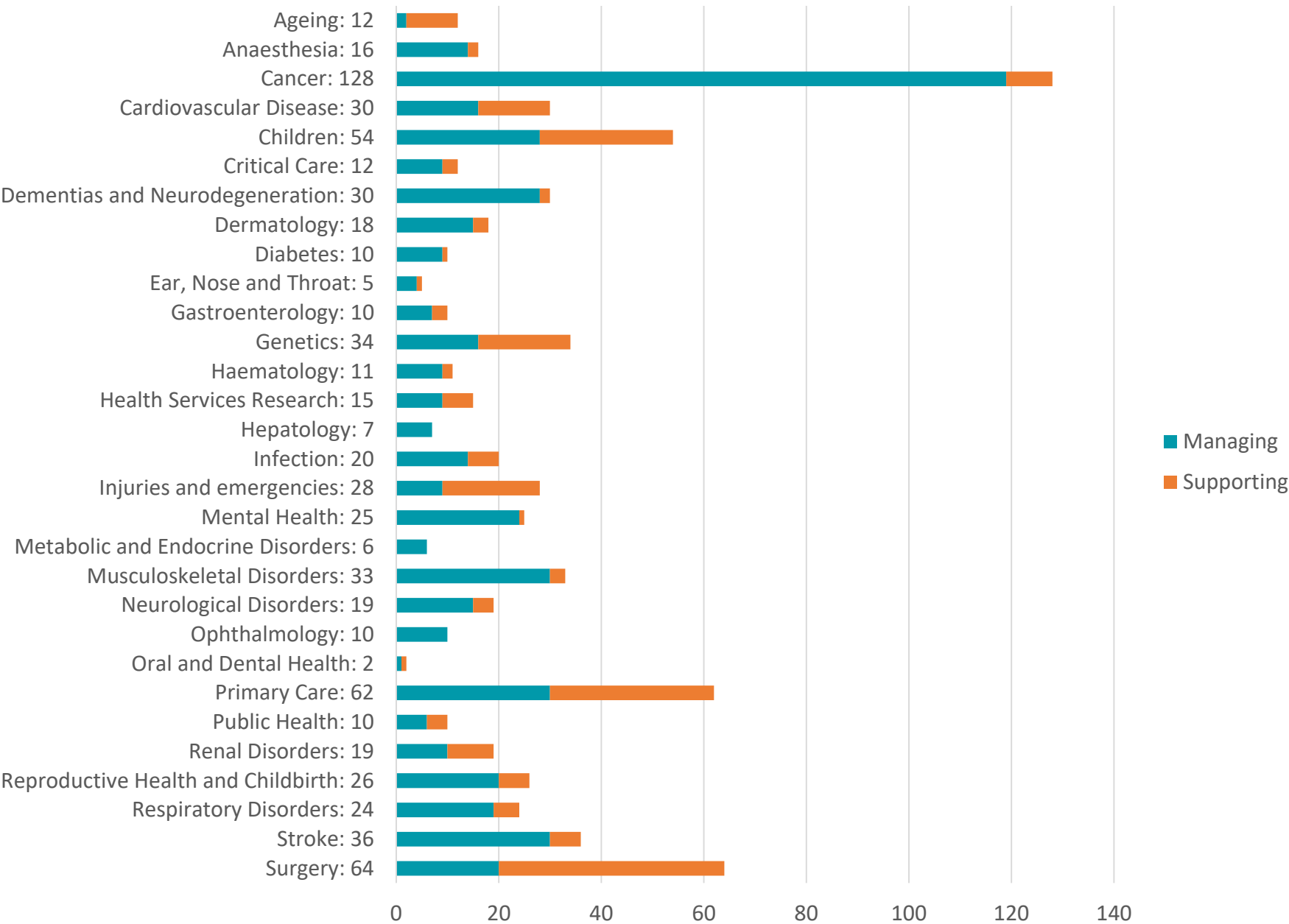
- Positive: Study planned or further info sent
- Neutral: Questionnaire provided, discussion planned or competing studies
- Negative: No patients/facilities/available PI or no response

Number of Principal Investigators by speciality

This chart shows the number of Principal Investigators by managing and supporting speciality for open and recruiting studies in Wales.

Please note that because both managing and supporting specialty have been included, some PIs may count more than once.

Source: NHS Research Performance Reports – Non-commercial and Commercial activity



Number of studies (non-commercial portfolio and commercial) open and recruiting, by NHS organisation

This chart shows the number of studies (non-commercial portfolio and commercial) open and recruiting by NHS organisation. The last column shows if there was an increase or decrease from the previous year.

This contains studies with a managing or supporting specialty, so the same study could appear more than once.

Note: Blue cells indicate where the speciality maps to Welsh Government disease delivery areas.

Source: 2018/19 and 2017/18 performance reports

	ABM	AB	BC	CV	CT	HD	PT	PHW	VNHST	WAST	All Wales (Duplicates Removed)	All Wales change from 17/18
Ageing	2	7	0	3	3	2	0	0	0	0	12	+8
Anaesthesia, perioperative medicine	2	5	2	5	2	1	0	0	0	0	9	+1
Cancer	37	21	33	57	18	19	1	0	62	0	160	-17
Cardiovascular disease	8	6	3	17	3	0	0	0	1	0	29	0
Children	8	4	6	34	8	5	0	1	0	0	44	0
Critical care	4	3	0	8	2	1	0	0	0	0	11	0
Dementias and neurodegeneration	6	7	6	12	2	8	1	0	0	0	25	+10
Dermatology	2	6	4	6	1	2	0	0	0	0	12	0
Diabetes	8	0	1	10	0	2	0	0	0	0	15	-1
Ear, nose and throat	1	1	1	2	0	0	0	0	0	0	5	+3
Gastroenterology	1	3	0	5	1	1	0	0	0	0	9	+1
Genetics	5	4	5	17	7	5	0	0	1	0	23	+5
Haematology	1	1	1	14	1	0	0	0	0	0	16	+4
Health Services Research	2	6	4	7	4	4	0	0	0	0	20	+11
Hepatology	8	1	1	2	1	2	0	0	0	0	12	+3
Infection	3	4	3	6	6	2	0	2	1	0	15	+2
Injuries and emergencies	4	11	2	15	2	2	0	0	0	2	26	+1
Mental Health	5	4	5	7	6	5	1	0	0	0	14	-2
Metabolic and endocrine disorders	1	0	2	4	1	0	0	0	0	0	8	-2
Musculoskeletal disorders	4	7	5	21	4	2	0	0	0	0	32	+1
Neurological disorders	10	1	1	19	2	3	0	0	0	0	28	+9
Ophthalmology	1	1	1	3	2	1	1	0	0	0	4	-6
Oral and dental health	0	0	0	1	1	0	0	0	1	0	3	0
Primary Care	12	14	16	19	16	7	2	0	0	0	43	+9
Public health	0	1	1	3	4	1	0	3	0	0	12	+3
Renal disorders	10	2	2	21	2	0	0	0	0	0	30	+1
Reproductive Health	13	5	4	11	2	0	0	0	0	0	28	+3
Respiratory disorders	3	6	7	11	6	8	0	0	0	0	29	+5
Stroke	10	6	4	8	2	7	1	0	0	2	19	+8
Surgery	10	16	6	30	5	5	0	0	1	0	51	+5
Grand Total (Excluding duplicates)	134	100	90	258	79	63	6	4	62	2	534	+19

Number of non-commercial portfolio studies open and recruiting, by NHS organisation

This chart shows the number of non-commercial portfolio studies open and recruiting by NHS organisation. The last column shows if there was an increase or decrease from the previous year.

This contains studies with a managing or supporting specialty, so the same study could appear more than once.

Note: Blue cells indicate where the speciality maps to Welsh Government disease delivery areas.

Source: 2018/19 and 2017/18 performance reports

	ABM	AB	BC	CV	CT	HD	PT	PHW	VNHST	WAST	All Wales (Duplicates Removed)	All Wales change from 17/18
Ageing	2	7	0	1	2	2	0	0	0	0	10	+7
Anaesthesia, perioperative medicine	2	5	2	5	2	1	0	0	0	0	9	+1
Cancer	27	21	31	47	18	18	1	0	49	0	127	-13
Cardiovascular disease	2	4	1	8	2	0	0	0	1	0	13	-2
Children	8	4	6	28	8	5	0	1	0	0	38	0
Critical care	4	3	0	8	2	1	0	0	0	0	11	+1
Dementias and neurodegeneration	5	6	6	11	2	8	1	0	0	0	22	+12
Dermatology	1	5	2	5	1	2	0	0	0	0	9	-1
Diabetes	3	0	1	8	0	2	0	0	0	0	9	-2
Ear, nose and throat	1	1	1	2	0	0	0	0	0	0	5	+3
Gastroenterology	1	1	0	5	0	1	0	0	0	0	7	+2
Genetics	5	4	5	17	7	5	0	0	0	0	22	+5
Haematology	1	1	1	7	1	0	0	0	0	0	9	+1
Health Services Research	2	5	4	7	3	4	0	0	0	0	19	+10
Hepatology	4	1	1	2	1	2	0	0	0	0	8	+3
Infection	3	4	3	6	6	2	0	2	1	0	15	+3
Injuries and emergencies	4	8	2	12	1	2	0	0	0	2	21	-4
Mental Health	5	4	5	7	6	4	1	0	0	0	13	-3
Metabolic and endocrine disorders	0	0	1	2	1	0	0	0	0	0	4	-1
Musculoskeletal disorders	4	6	4	17	4	2	0	0	0	0	26	0
Neurological disorders	4	1	1	12	2	3	0	0	0	0	15	0
Ophthalmology	1	1	1	2	1	1	1	0	0	0	2	-5
Oral and dental health	0	0	0	1	1	0	0	0	1	0	3	0
Primary Care	9	13	13	15	12	6	2	0	0	0	37	+7
Public health	0	1	1	3	4	1	0	3	0	0	12	+3
Renal disorders	3	2	2	19	2	0	0	0	0	0	22	+4
Reproductive Health	13	5	3	11	2	0	0	0	0	0	27	+2
Respiratory disorders	3	6	6	8	6	6	0	0	0	0	23	+5
Stroke	10	6	4	8	2	7	1	0	0	2	19	+8
Surgery	10	15	6	26	4	5	0	0	1	0	45	+2
Grand Total (Excluding duplicates)	97	88	81	205	70	58	6	4	49	2	417	+24

Number of commercial studies open and recruiting, by NHS organisation

This chart shows the number of commercial studies open and recruiting by NHS organisation. The last column shows if there was an increase or decrease from the previous year.

This contains studies with a managing or supporting specialty, so the same study could appear more than once.

Note: Blue cells indicate where the speciality maps to Welsh Government disease delivery areas.

Source: 2018/19 and 2017/18 performance reports

	ABM	AB	BC	CV	CT	HD	PT	PHW	VNHST	WAST	All Wales (Duplicates Removed)	All Wales change from 17/18
Ageing	0	0	0	2	1	0	0	0	0	0	2	+1
Anaesthesia, perioperative medicine	0	0	0	0	0	0	0	0	0	0	0	0
Cancer	10	0	2	10	0	1	0	0	13	0	33	-4
Cardiovascular disease	6	2	2	9	1	0	0	0	0	0	16	+2
Children	0	0	0	6	0	0	0	0	0	0	6	0
Critical care	0	0	0	0	0	0	0	0	0	0	0	-1
Dementias and neurodegeneration	1	1	0	1	0	0	0	0	0	0	3	-2
Dermatology	1	1	2	1	0	0	0	0	0	0	3	+1
Diabetes	5	0	0	2	0	0	0	0	0	0	6	+1
Ear, nose and throat	0	0	0	0	0	0	0	0	0	0	0	0
Gastroenterology	0	2	0	0	1	0	0	0	0	0	2	-1
Genetics	0	0	0	0	0	0	0	0	1	0	1	0
Haematology	0	0	0	7	0	0	0	0	0	0	7	+3
Health Services Research	0	1	0	0	1	0	0	0	0	0	1	+1
Hepatology	4	0	0	0	0	0	0	0	0	0	4	0
Infection	0	0	0	0	0	0	0	0	0	0	0	-1
Injuries and emergencies	0	3	0	3	1	0	0	0	0	0	5	+5
Mental Health	0	0	0	0	0	1	0	0	0	0	1	+1
Metabolic and endocrine disorders	1	0	1	2	0	0	0	0	0	0	4	-1
Musculoskeletal disorders	0	1	1	4	0	0	0	0	0	0	6	+1
Neurological disorders	6	0	0	7	0	0	0	0	0	0	13	+9
Ophthalmology	0	0	0	1	1	0	0	0	0	0	2	-1
Oral and dental health	0	0	0	0	0	0	0	0	0	0	0	0
Primary Care	3	1	3	4	4	1	0	0	0	0	6	+2
Public health	0	0	0	0	0	0	0	0	0	0	0	0
Renal disorders	7	0	0	2	0	0	0	0	0	0	8	-3
Reproductive Health	0	0	1	0	0	0	0	0	0	0	1	+1
Respiratory disorders	0	0	1	3	0	2	0	0	0	0	6	0
Stroke	0	0	0	0	0	0	0	0	0	0	0	0
Surgery	0	1	0	4	1	0	0	0	0	0	6	+3
Grand Total (Excluding duplicates)	37	12	9	53	9	5	0	0	13	0	117	-5

Number of studies in Wales by sponsorship status

This chart shows the number of studies in Wales by sponsorship status (non-commercial or commercial), in order to easily compare this activity for any of the specialty areas.

This contains studies with a managing or supporting specialty, so the same study could appear more than once.

Note: Blue cells indicate where the speciality maps to Welsh Government disease delivery areas.

Source: 2018/19 and 2017/18 performance reports

	Commercial	Change	Non-commercial	Change	Total	Change
Ageing	2	+1	10	+7	12	+8
Anaesthesia, perioperative medicine and pain management	0	0	9	+1	9	+1
Cancer	33	-4	127	-13	160	-17
Cardiovascular disease	16	+2	13	-2	29	0
Children	6	0	38	0	44	0
Critical care	0	-1	11	+1	11	0
Dementias and neurodegeneration	3	-2	22	+12	25	+10
Dermatology	3	+1	9	-1	12	0
Diabetes	6	+1	9	-2	15	-1
Ear, nose and throat	0	0	5	+3	5	+3
Gastroenterology	2	-1	7	+2	9	+1
Genetics	1	0	22	+5	23	+5
Haematology	7	+3	9	+1	16	+4
Health Services Research	1	+1	19	+10	20	+11
Hepatology	4	0	8	+3	12	+3
Infection	0	-1	15	+3	15	+2
Injuries and emergencies	5	+5	21	-4	26	+1
Mental Health	1	+1	13	-3	14	-2
Metabolic and endocrine disorders	4	-1	4	-1	8	-2
Musculoskeletal disorders	6	+1	26	0	32	+1
Neurological disorders	13	+9	15	0	28	+9
Ophthalmology	2	-1	2	-5	4	-6
Oral and dental health	0	0	3	0	3	0
Primary Care	6	+2	37	+7	43	+9
Public health	0	0	12	+3	12	+3
Renal disorders	8	-3	22	+4	30	+1
Reproductive Health	1	+1	27	+2	28	+3
Respiratory disorders	6	0	23	+5	29	+5
Stroke	0	0	19	+8	19	+8
Surgery	6	+3	45	+2	51	+5
Grand Total (Excluding duplicates)	117	-5	417	+24	534	+19

Growth in Wales commercial activity – Top 7 specialties

This chart shows the top 7 growing Wales specialties for commercially sponsored research in the last five years.

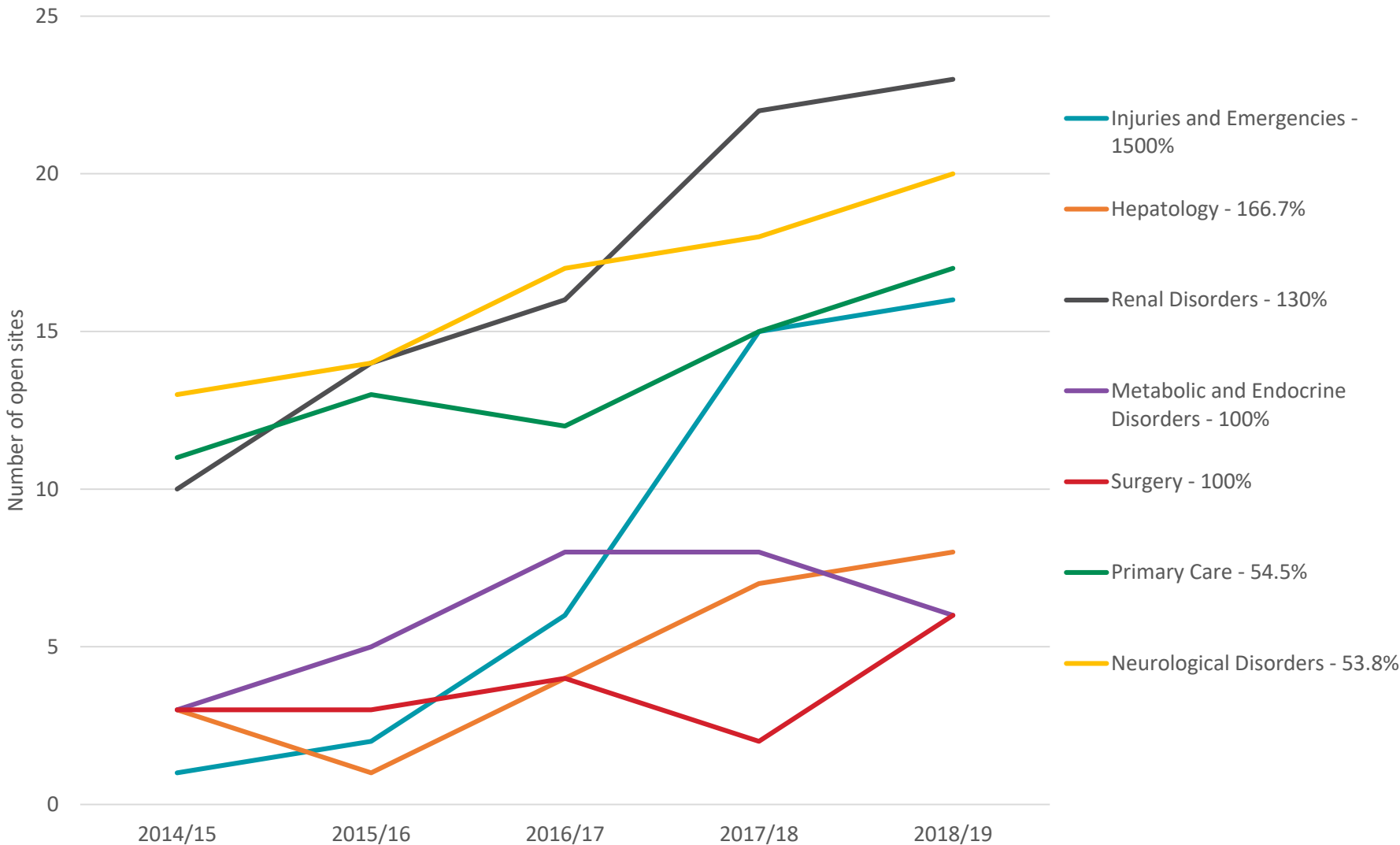
Growth is calculated as the percentage increase in open sites between 2014/15 and 2018/19

This contains studies with a managing specialty only.

Note: The growth may be attributed to number of studies in Wales, the number of sites in Wales or a combination of both

Source: Open Data Platform + Support and Delivery Centre - Industry team

Top 7 growth specialties, by percentage increase in open sites



Profile of Specialties within the commercially sponsored portfolio

This chart shows the proportion of studies in a speciality area as part of all commercially sponsored studies in Wales.

This reports on the studies' managing specialty only.

The highest proportion of studies are in Cancer, Cardiovascular disease and Diabetes which all map onto the 10 most prevalent diseases in Wales.

Source: Open Data Platform + Support and Delivery Centre - Industry team



Other category includes:

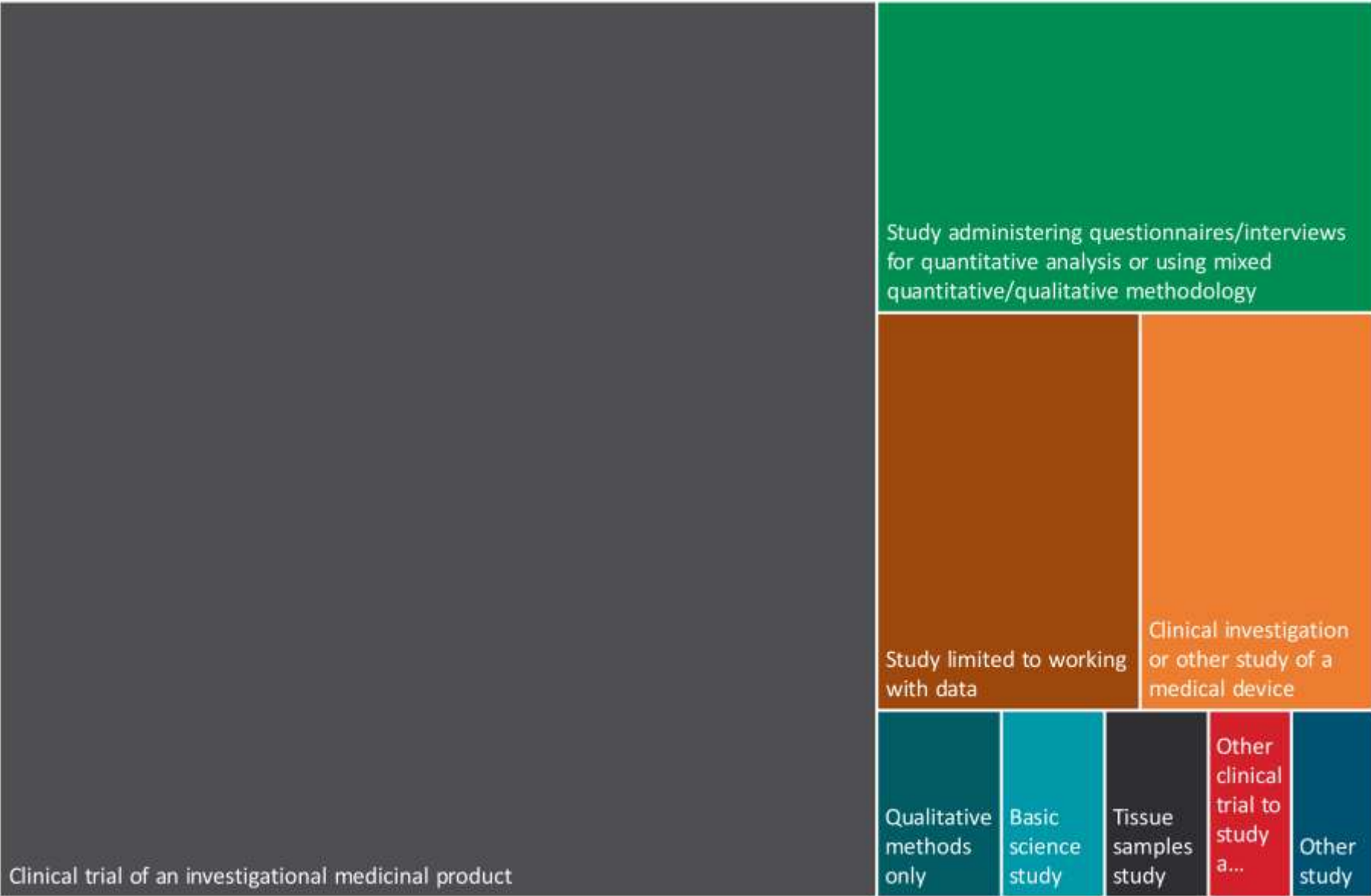
- Health Services Research,
- Oral and Dental Health,
- Anaesthesia
- Perioperative Medicine and Pain Management,
- Stroke,
- Critical Care,
- Genetics & Mental Health

Profile of study types within the commercially sponsored portfolio

This chart shows the proportion of studies by study type as part of all commercially sponsored studies in Wales.

The highest proportion of commercial studies are Clinical trials of an investigational medicinal product.

Source: HARP Approvals Data



Number of Days to First Recruit from Site Activation Number of study-sites (target >1 ppm)

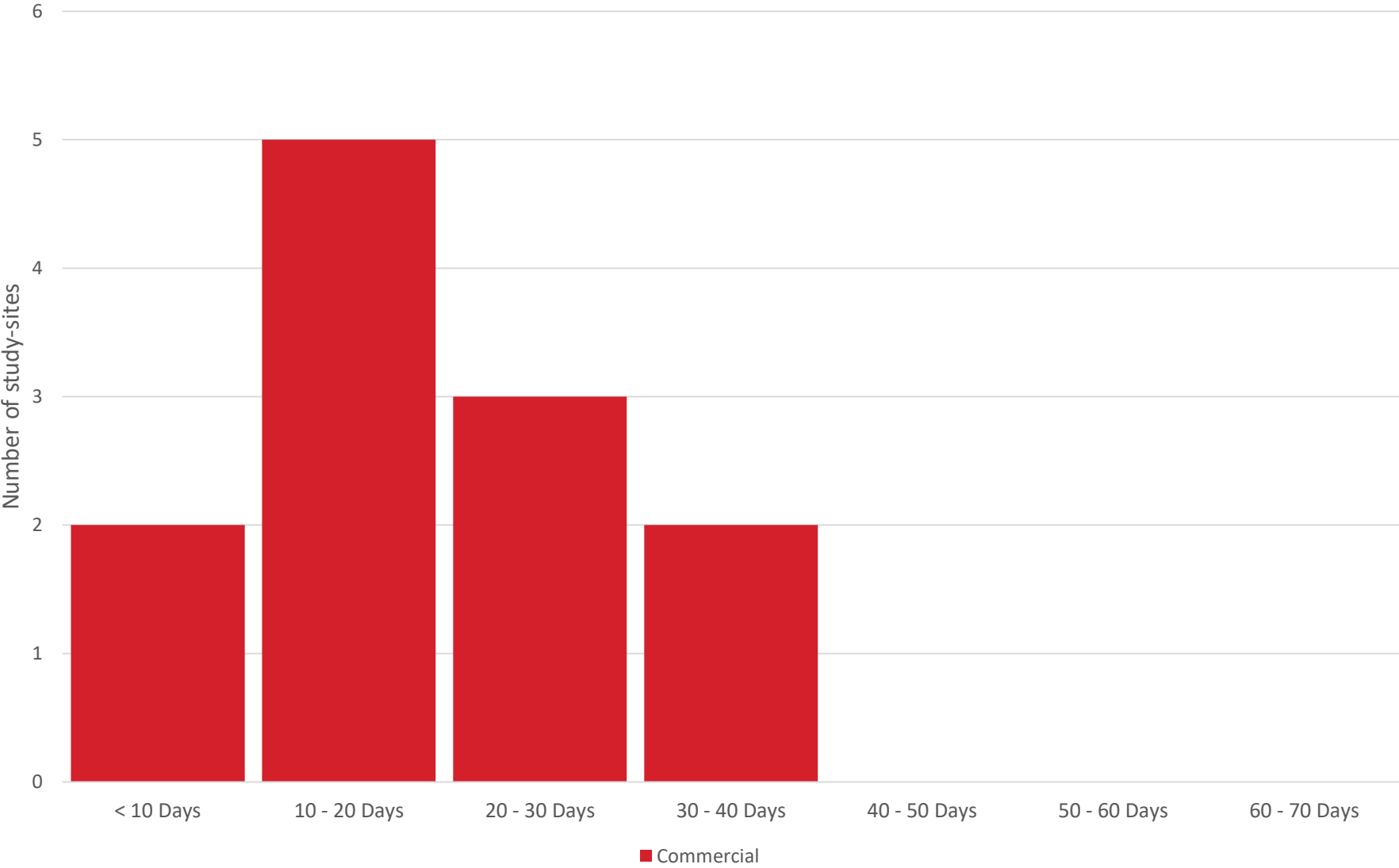
Time taken to recruit first participant following site activation for commercial studies

This chart shows the number of study sites by time taken to recruit the first participant following site activation.

Two thirds of new sites in 2018/19 recruited their 1st patient within 30 days.

Please note, that this data has not been broken down by NHS organisation due to low numbers of commercial studies.

Source: 2018/19 Performance Report



Recruitment to HealthWise Wales

This charts shows the cumulative monthly recruitment to Healthwise Wales by NHS organisation. It also shows the NHS organisation recruitment performance rank.

Powys is ranked number 1. However, numbers have fallen significantly across all Health Boards in Wales from December 18.

Note: The performance rank is calculated from the cumulative monthly recruitment as a percentage of the NHS organisation’s 16+ population.

Source: Healthwise Wales

Notes	Health Board	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18	01/19	02/19	03/19
Per month recruitment	Abertawe Bro Morgannwg UHB	83	126	140	194	94	181	187	151	93	112	61	82
	Aneurin Bevan UHB	15	127	186	114	121	117	267	65	12	8	3	59
	Betsi Cadwaladr UHB	17	126	286	328	544	645	432	233	74	137	65	163
	Cardiff & Vale UHB	48	120	169	147	238	124	372	260	52	16	7	61
	Cwm Taf UHB	148	624	519	184	58	48	115	14	10	12	1	22
	Hywel Dda UHB	37	70	69	101	118	152	135	204	62	159	29	58
	Powys THB	4	16	8	16	20	58	59	48	0	39	33	3
	All Wales Total	355	1209	1377	1084	1193	1325	1567	975	303	483	199	446
Recruitment performance rank*	Abertawe Bro Morgannwg UHB	4	4	4	4	4	4	4	5	4	5	5	5
	Aneurin Bevan UHB	6	6	6	6	7	7	7	7	7	7	7	7
	Betsi Cadwaladr UHB	7	7	7	7	6	6	5	6	6	6	6	6
	Cardiff & Vale UHB	3	3	3	3	3	3	3	3	3	3	3	3
	Cwm Taf UHB	2	2	2	2	2	2	2	2	2	2	2	2
	Hywel Dda UHB	5	5	5	5	5	5	6	4	5	4	4	4
	Powys THB	1	1	1	1	1	1	1	1	1	1	1	1

Section 2

How we compare

- This section shows how the research activity in Wales compares to specific organisations or similar areas in England.

Note:

- All Wales research activity and individual NHS organisations have been benchmarked against the NIHR Local Clinical Research Networks (LCRNs) of Greater Manchester and of North East & North Cumbria. These have been used as comparators as they have a similar population to Wales, and North East & North Cumbria is similar in rurality to Wales.
- Additional benchmarking against specific NHS England organisations has been included where identified by NHS organisations in Wales.
- Target refers to the delivery framework targets for increasing numbers of studies (C1 & C2) and number of participants (D1 & D2)
- When comparisons have been made across areas, adjustments have been used to ensure comparability, based on population size
- *No comparable organisation was identified for Public Health Wales, so this has not been included in this section*

Recruitment in Wales compared to other UK nations by study category

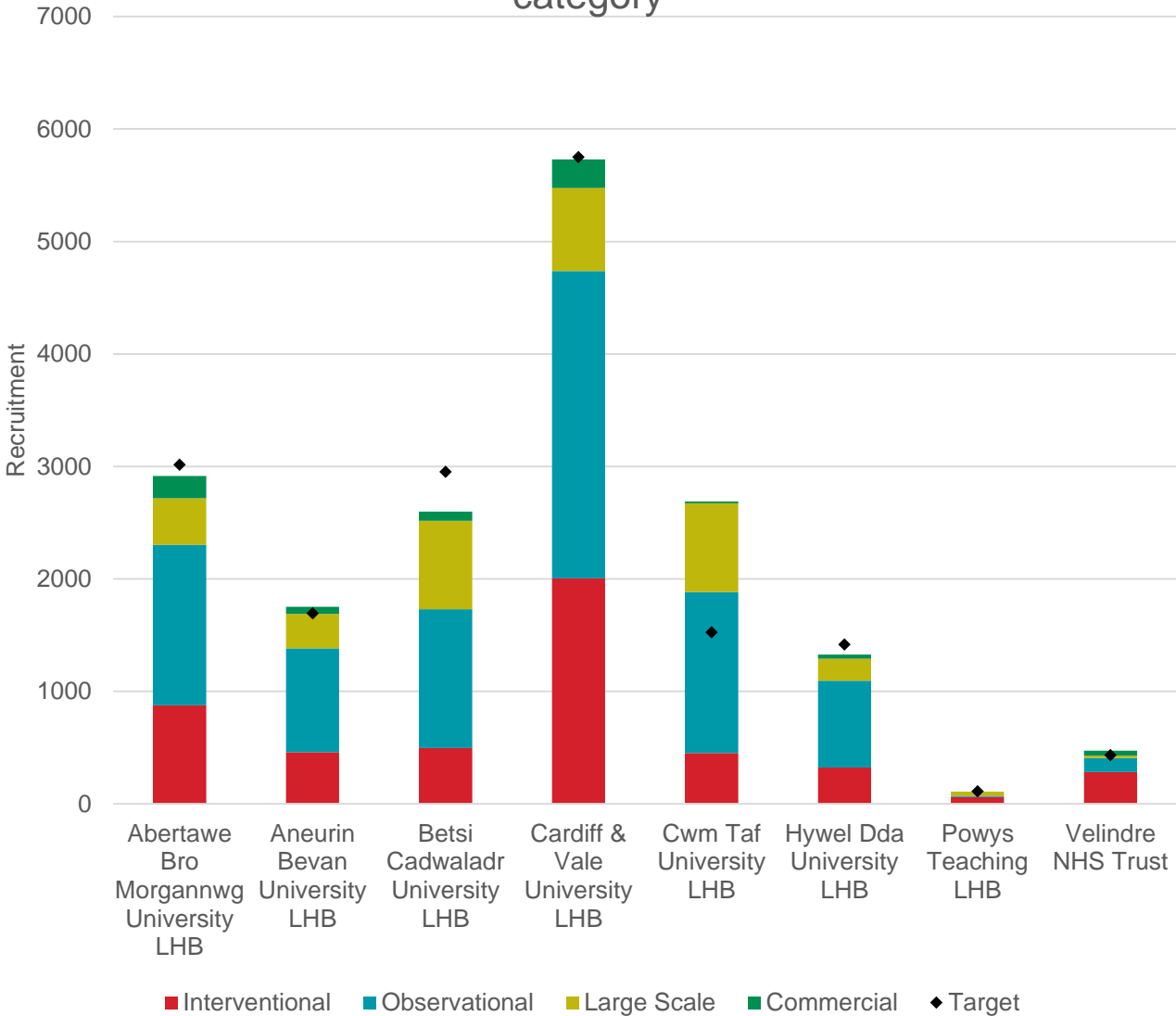
This charts shows the comparison of each NHS Wales organisation (adjusted) to each other. The graph on the right shows Wales’ recruitment compared to the other UK nations by research study category.

The target refers to the recruitment target for commercial and non commercial studies in the Delivery Framework (D1 & D2)

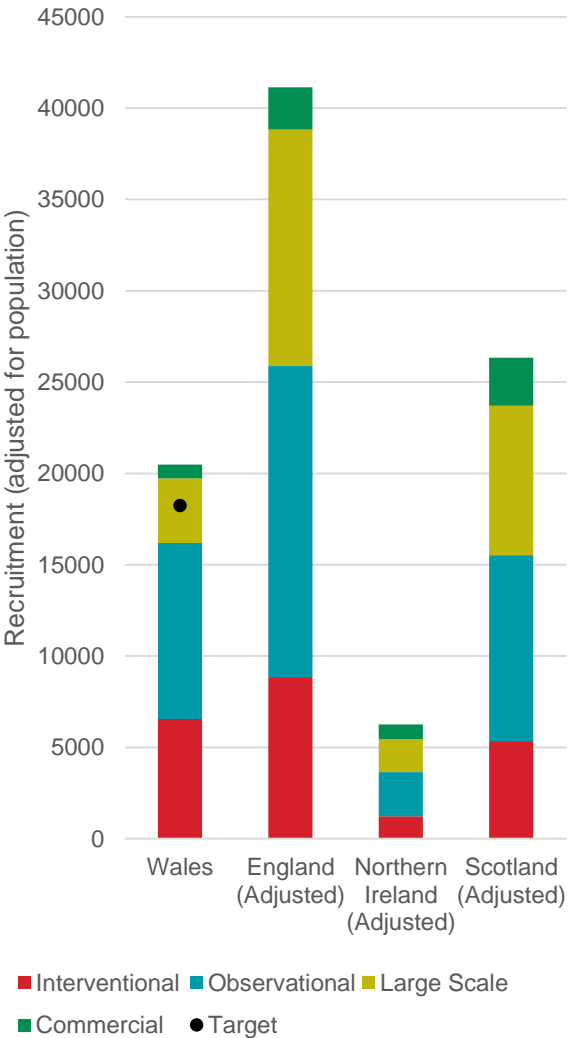
Note: The NHS Wales organisation values are pro-rata adjusted for comparison.

Source: CPMS Open Data Platform non-commercial and commercial activity.

Benchmarking recruitment in Wales & UK Nations
2015/16 - 2018/19 average by research study category



Recruitment in UK Nations
2015/16 - 2018/19 Average by Research Study Category



Number of studies in Wales compared to other UK nations by study category

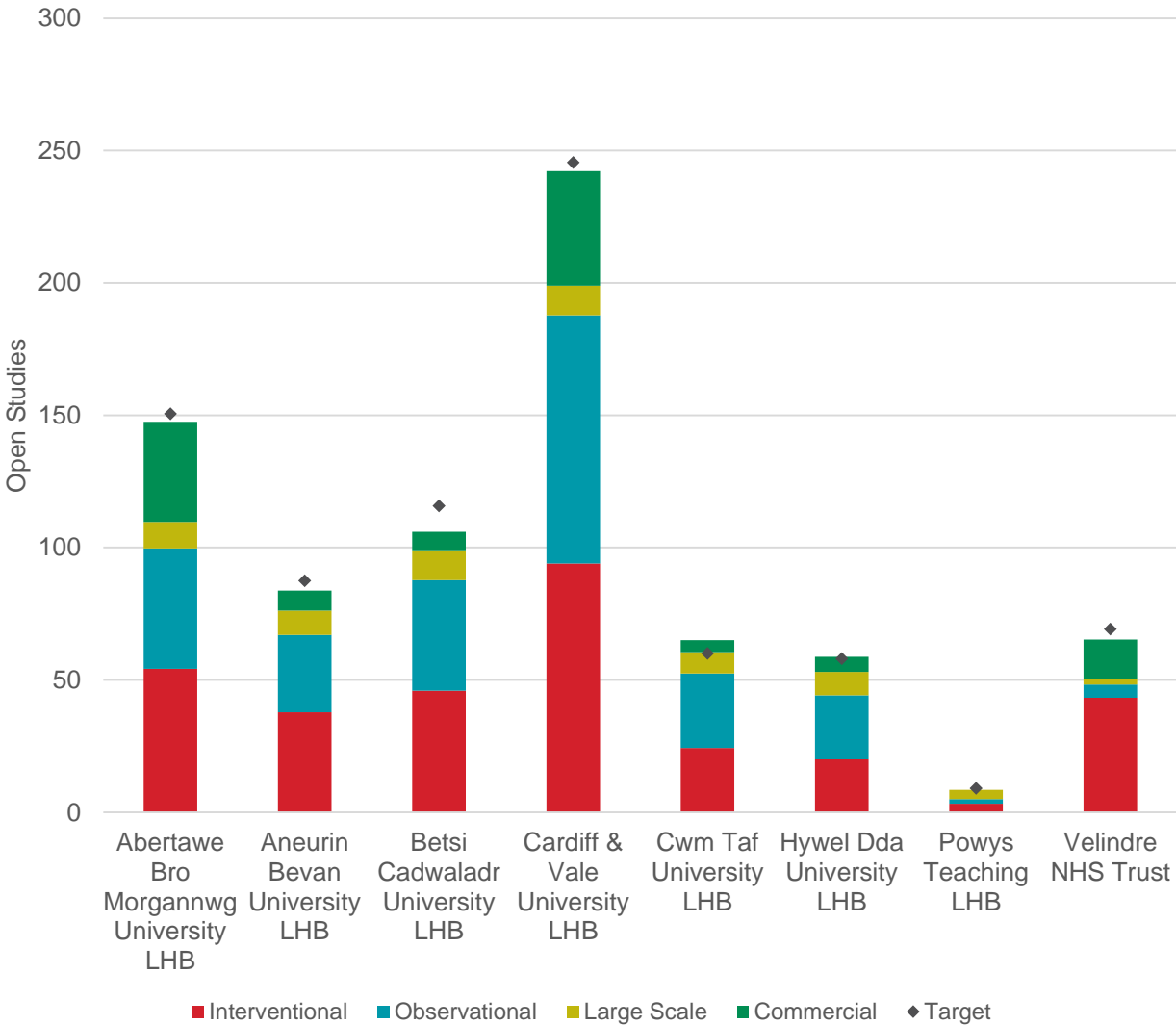
This charts shows the comparison of each NHS Wales organisation (adjusted) to other UK nations by study category.

The target refers to the recruitment target for commercial and non commercial studies in the Delivery Framework (C1 & C2)

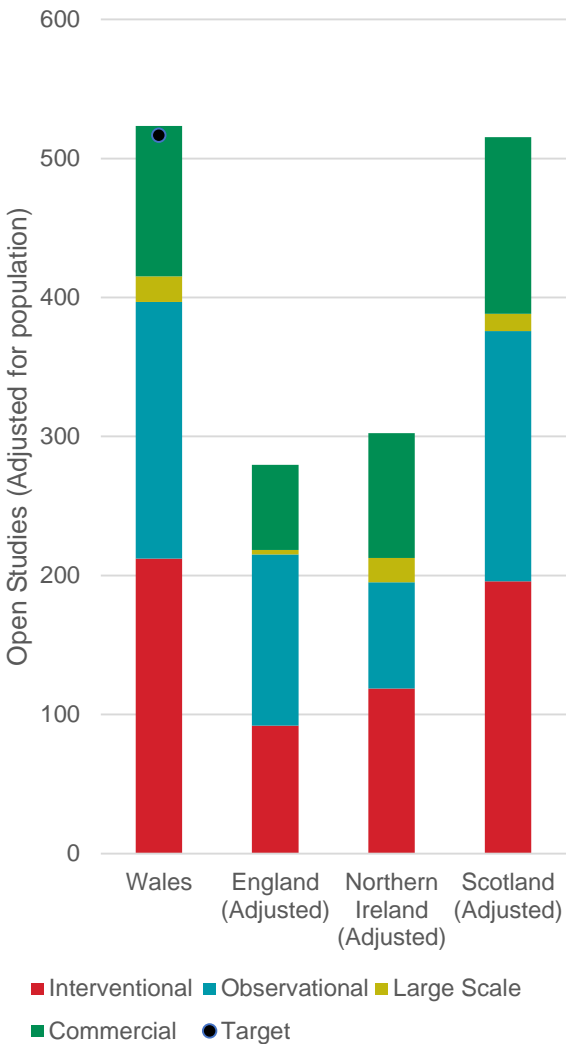
Note: The NHS Wales organisation values are pro-rata adjusted for comparison.

Source: CPMS Open Data Platform non-commercial and commercial activity.

Benchmarking studies open & recruiting in Wales
2015/16 - 2018/19 average by research study category



Open & recruiting in UK nations 2015/16 - 2018/19 average by research study category



Recruitment in Wales compared to similar areas in England

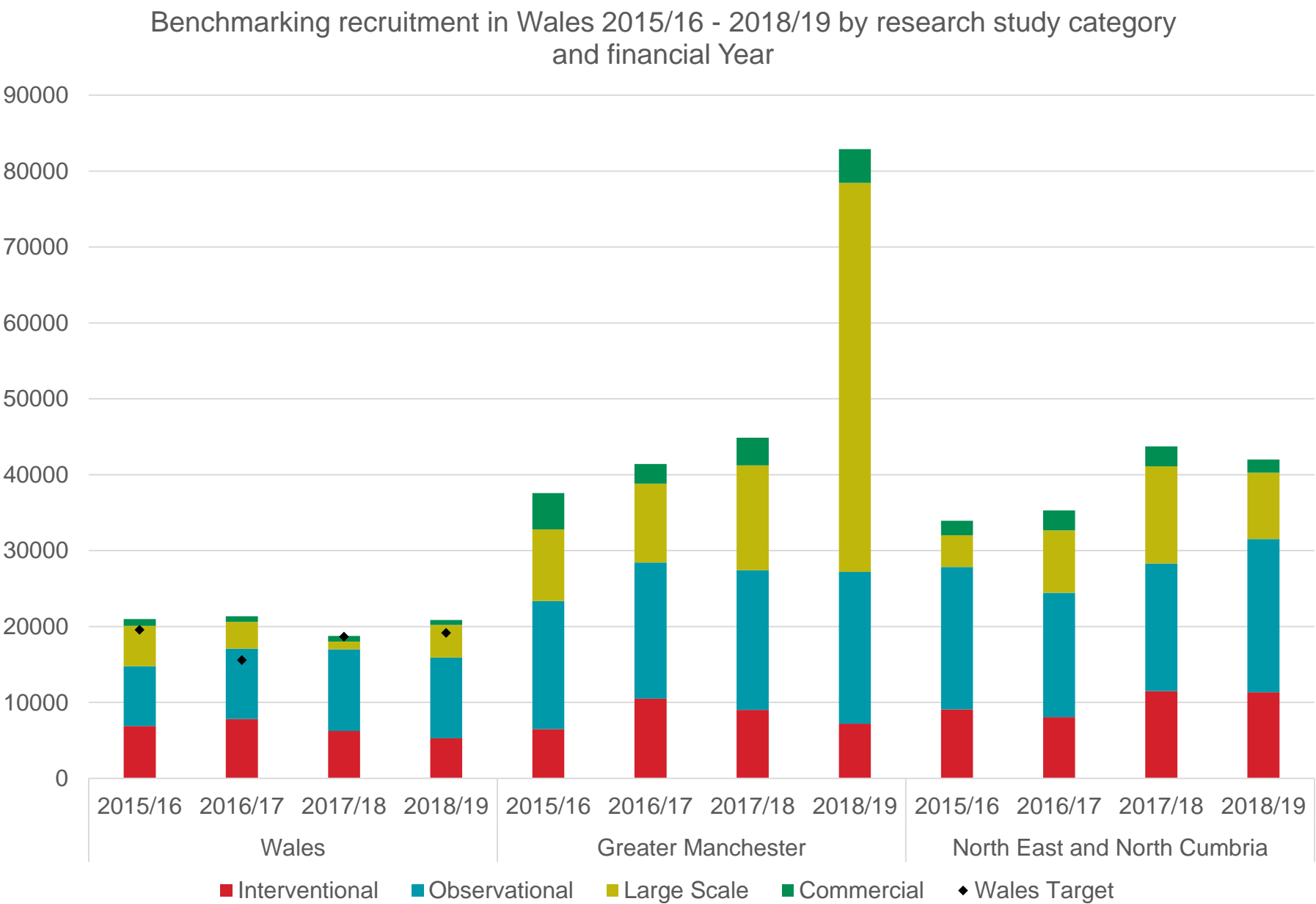
This chart shows a comparison of recruitment in Wales by study category and financial year.

This shows that Wales' recruitment is the lowest of the three similar areas.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria.

Greater Manchester had 1 large scale study that recruited 32K participants

Source: CPMS Open Data Platform non-commercial and commercial activity.



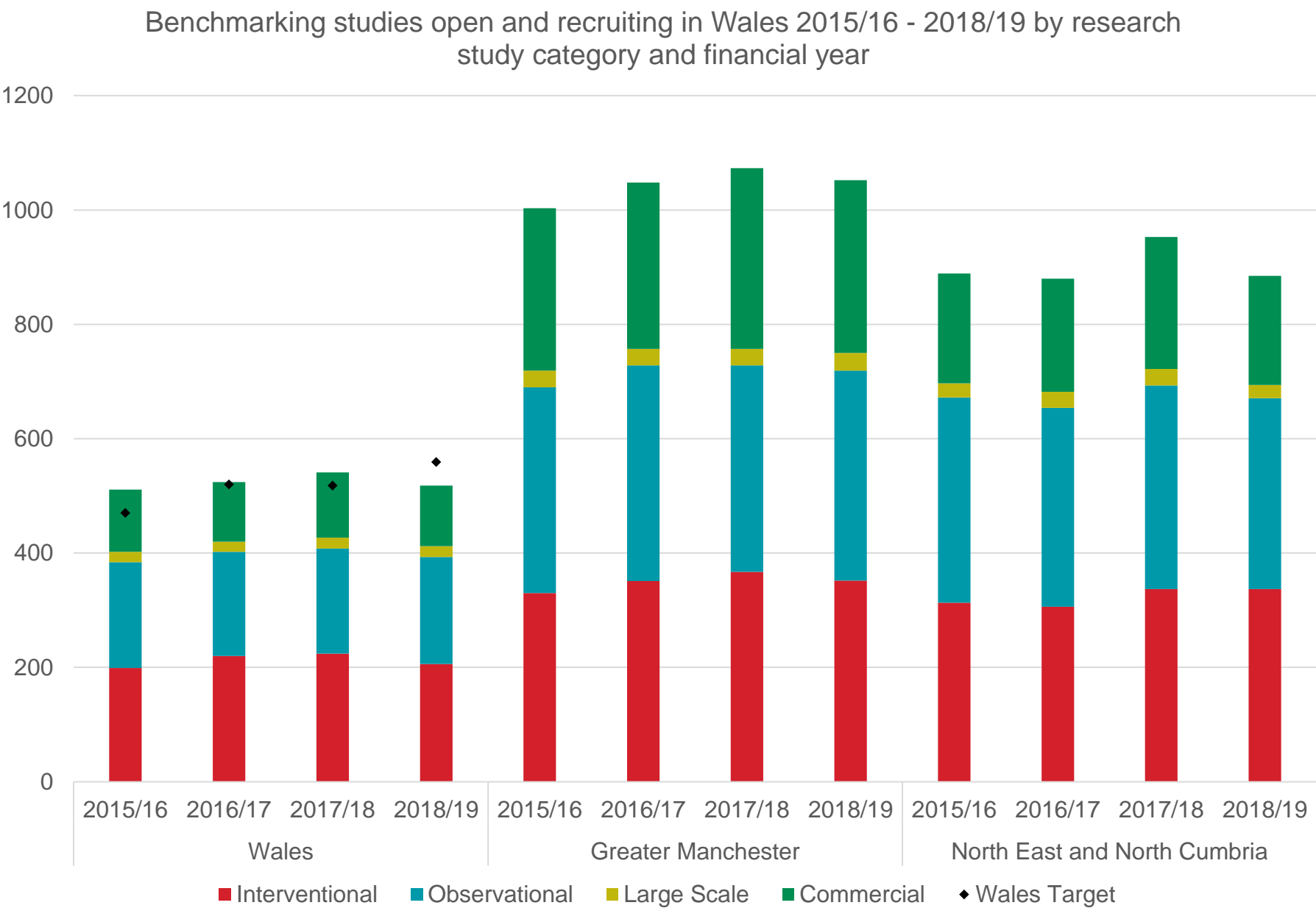
Number of studies in Wales compared to similar areas in England

This chart shows a comparison of all studies open and recruiting in Wales by study category and financial year.

This shows that Wales has far fewer studies open and recruiting compared to the two LCRNs.

Note: The data is benchmarked against the NIHR CRNs of Greater Manchester and of North East & North Cumbria.

Source: CPMS Open Data Platform non-commercial and commercial activity.



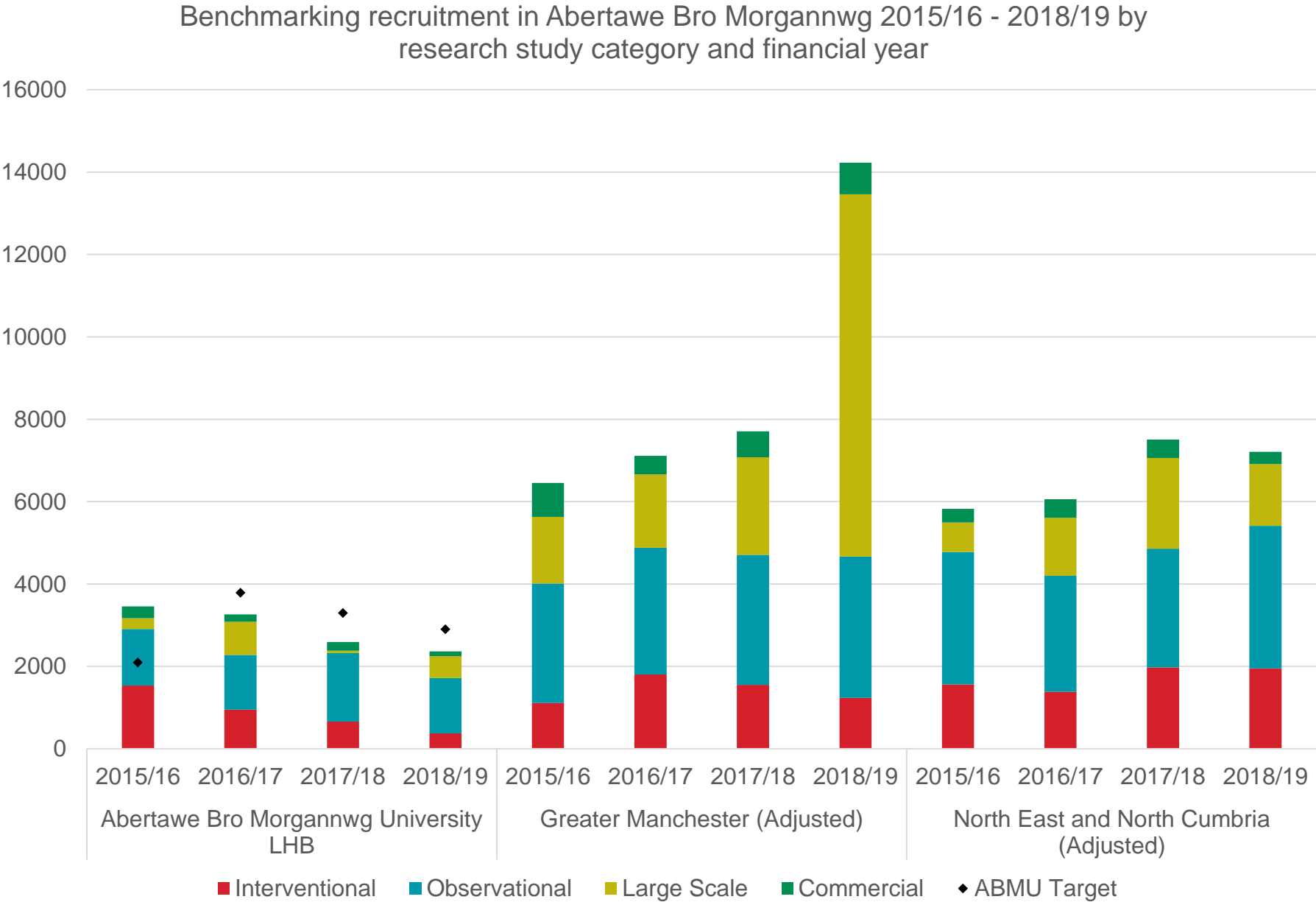
Recruitment at Abertawe Bro Morgannwg UHB by study category and financial year

This chart shows recruitment to studies at Abertawe Bro Morgannwg UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Note: Abertawe Bro Morgannwg UHB is the organisation name up to 31 Mar 2019.

Source: CPMS Open Data Platform non-commercial and commercial activity.



Studies open and recruiting at Abertawe Bro Morgannwg UHB by study category and financial year

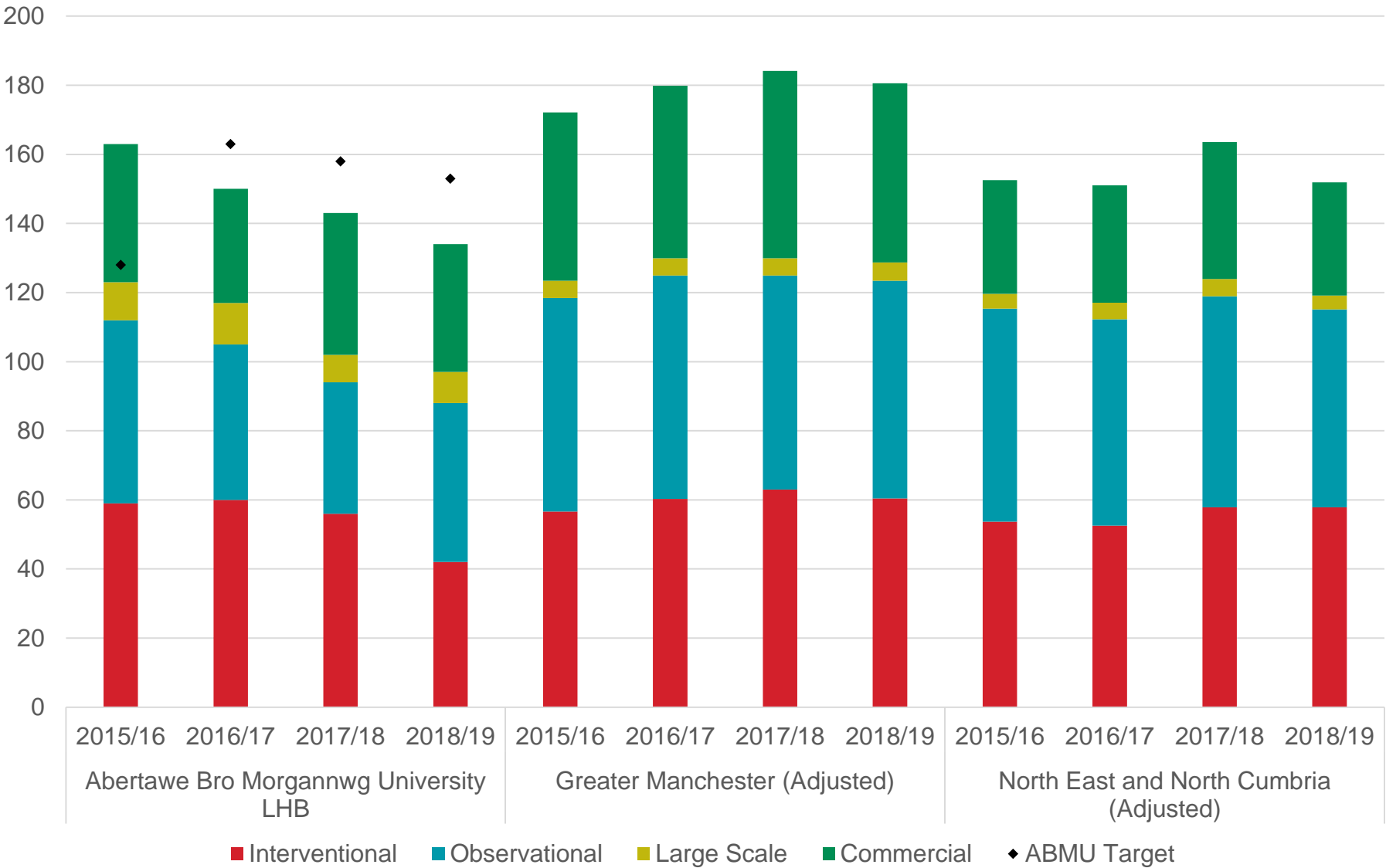
This chart shows a comparison of all studies open and recruiting Abertawe Bro Morgannwg UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Note: Abertawe Bro Morgannwg UHB is the organisation name up to 31 Mar 2019.

Source: CPMS Open Data Platform non-commercial and commercial activity.

Benchmarking studies open & recruiting in Abertawe Bro Morgannwg 2015/16 - 2018/19 by research study category and financial year

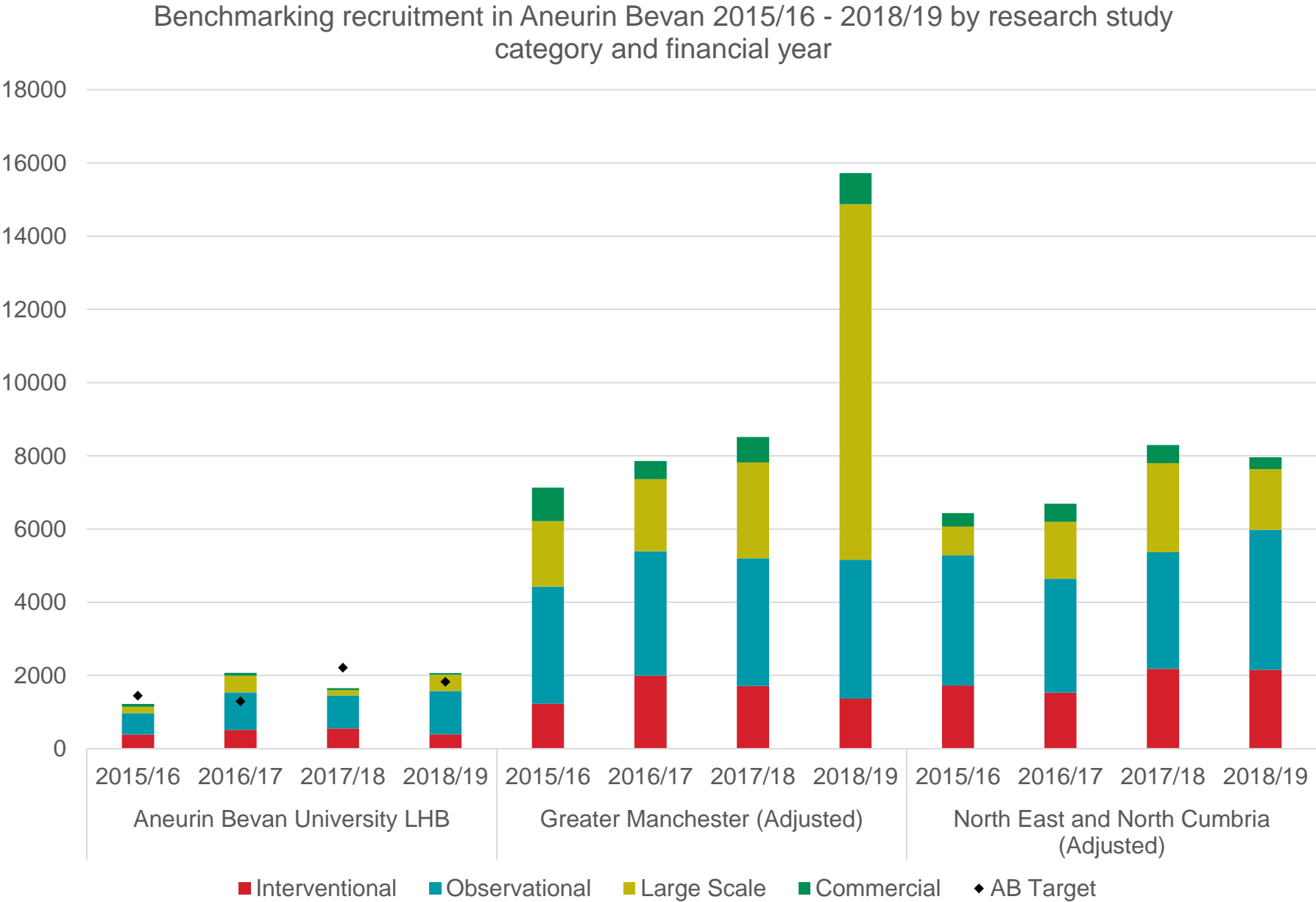


Recruitment at Aneurin Bevan UHB by study category and financial year

This chart shows recruitment to studies at Aneurin Bevan UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Source: CPMS Open Data Platform non-commercial and commercial activity.

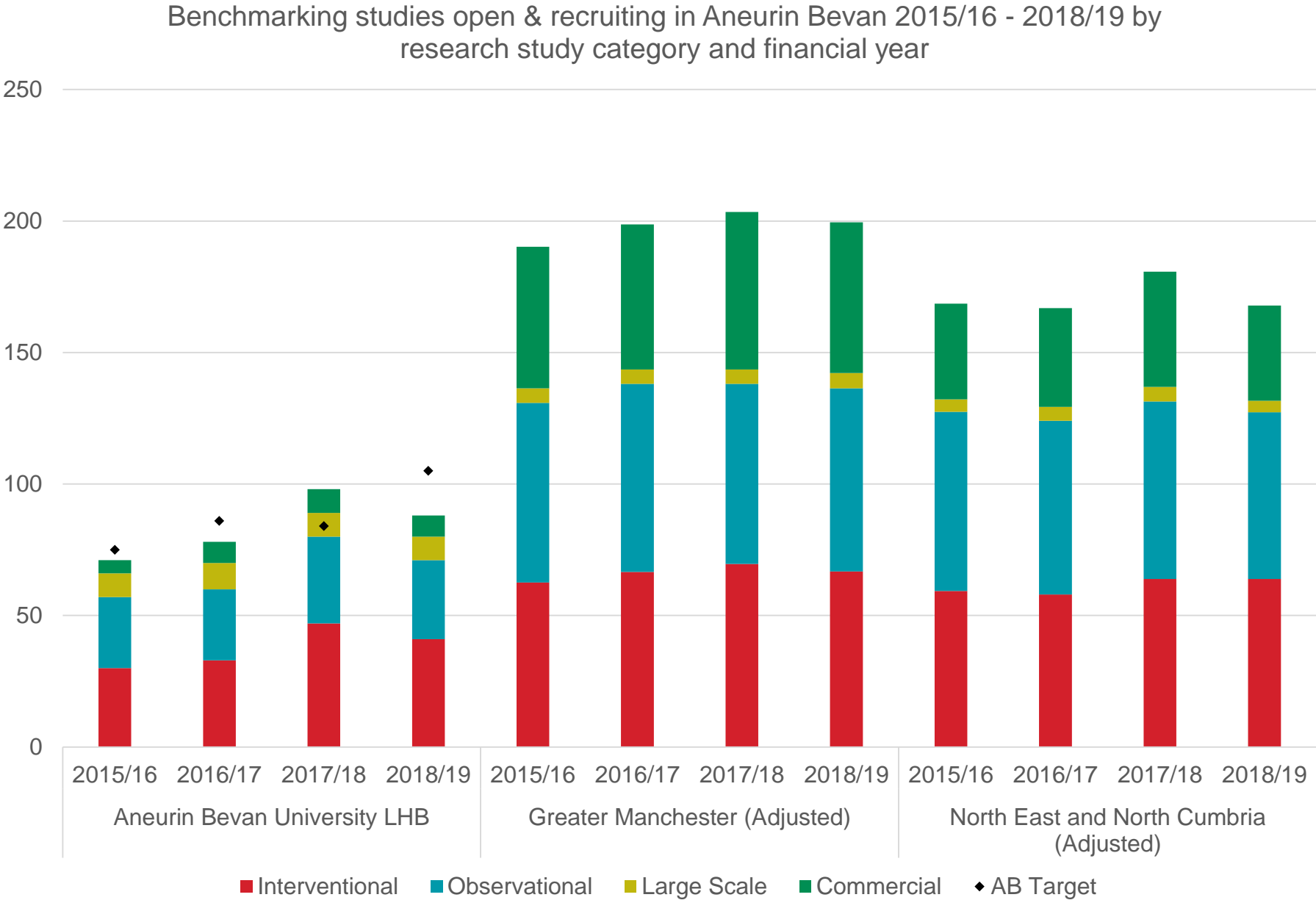


Studies open and recruiting at Aneurin Bevan UHB by study category and financial year

This chart shows a comparison of all studies open and recruiting Aneurin Bevan UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Source: CPMS Open Data Platform non-commercial and commercial activity.



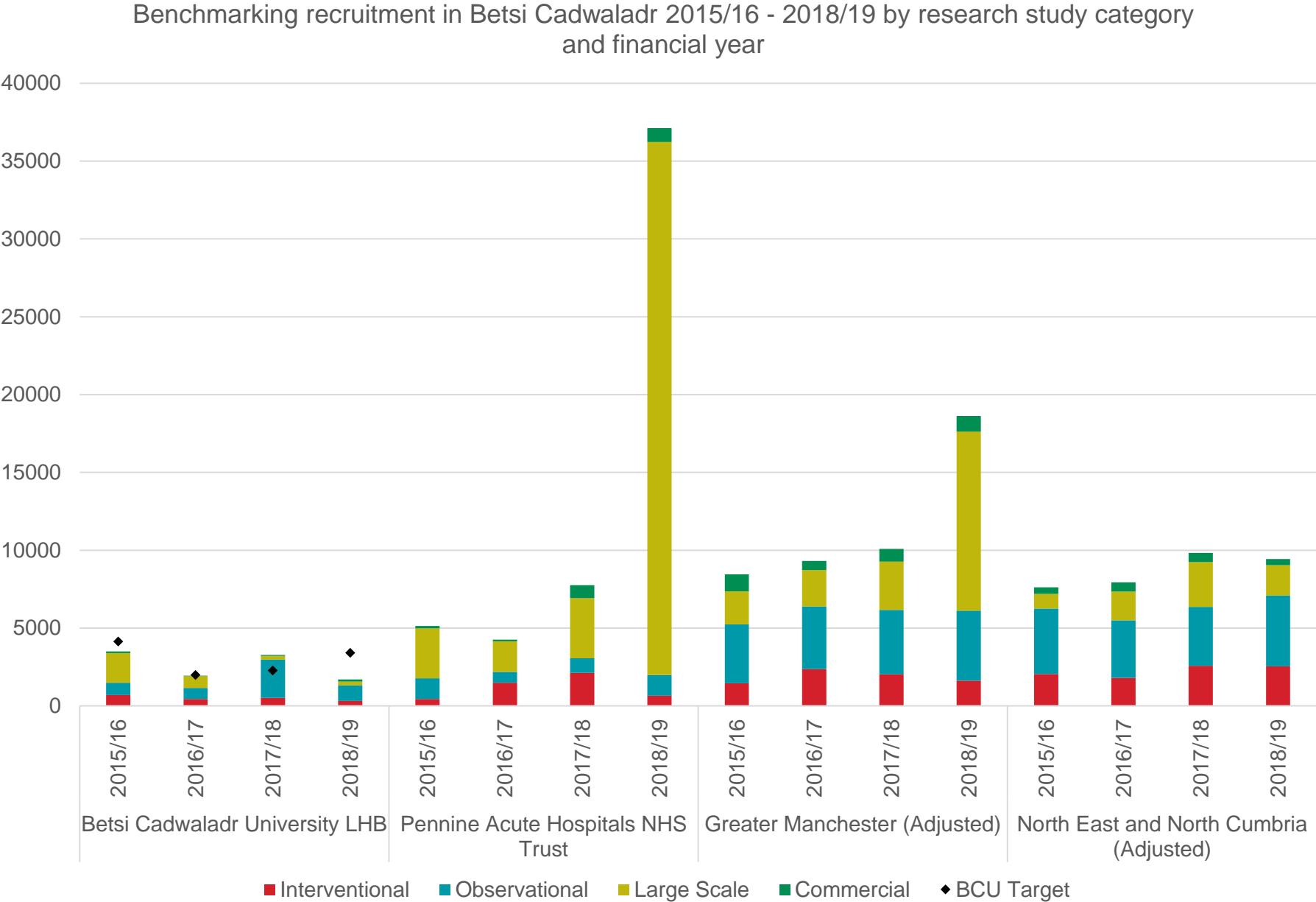
Recruitment at Betsi Cadwaladr UHB by study category and financial year

This chart shows recruitment to studies at Betsi Cadwaladr UHB by study category and financial year.

Note: The data is benchmarked against Pennine Acute Hospitals NHS Trust, as well as the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation's population).

One large scale study recruited 32K participants in Pennine Acute Hospital NHS Trust.

Source: CPMS Open Data Platform non-commercial and commercial activity.

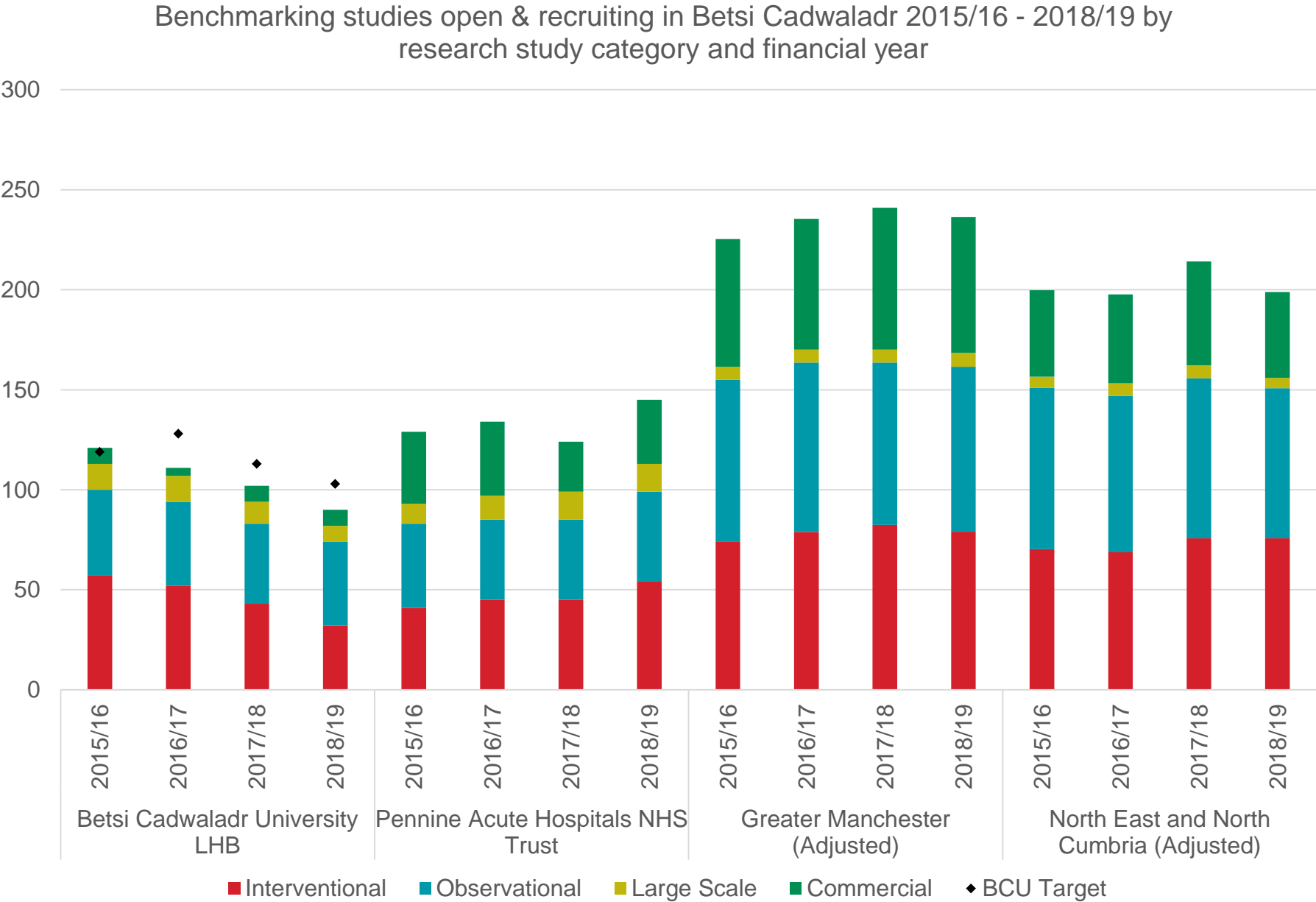


Studies open and recruiting at Betsi Cadwaladr UHB by study category and financial year

This chart shows a comparison of all studies open and recruiting Betsi Cadwaladr UHB by study category and financial year.

Note: The data is benchmarked against Pennine Acute Hospitals NHS Trust, as well as the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation's population).

Source: CPMS Open Data Platform non-commercial and commercial activity.

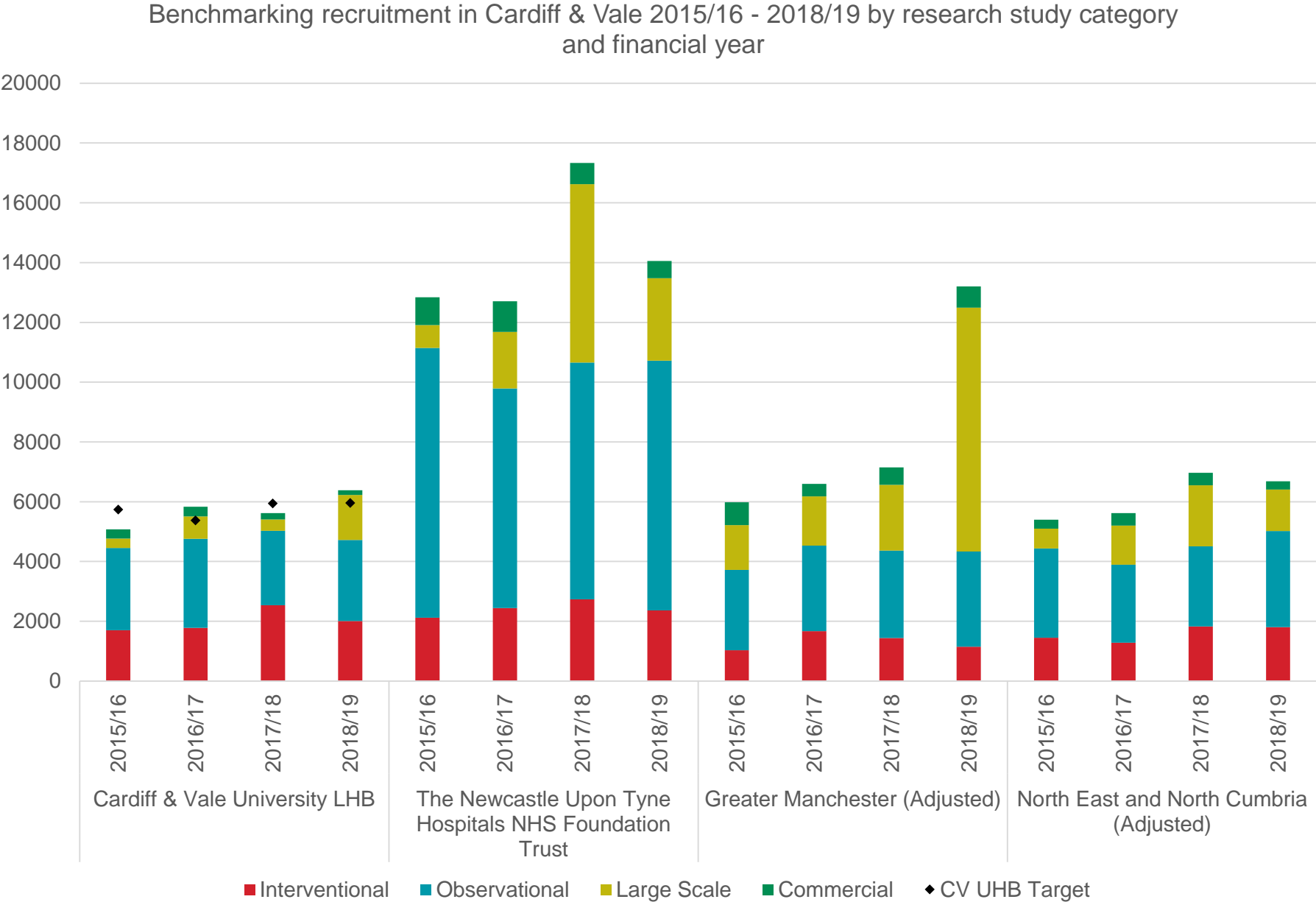


Recruitment at Cardiff & Vale UHB by study category and financial year

This chart shows recruitment to studies at Cardiff & Vale UHB by study category and financial year.

Note: The data is benchmarked against The Newcastle Upon Tyne Hospitals NHS Foundation Trust, as well as the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Source: CPMS Open Data Platform non-commercial and commercial activity.

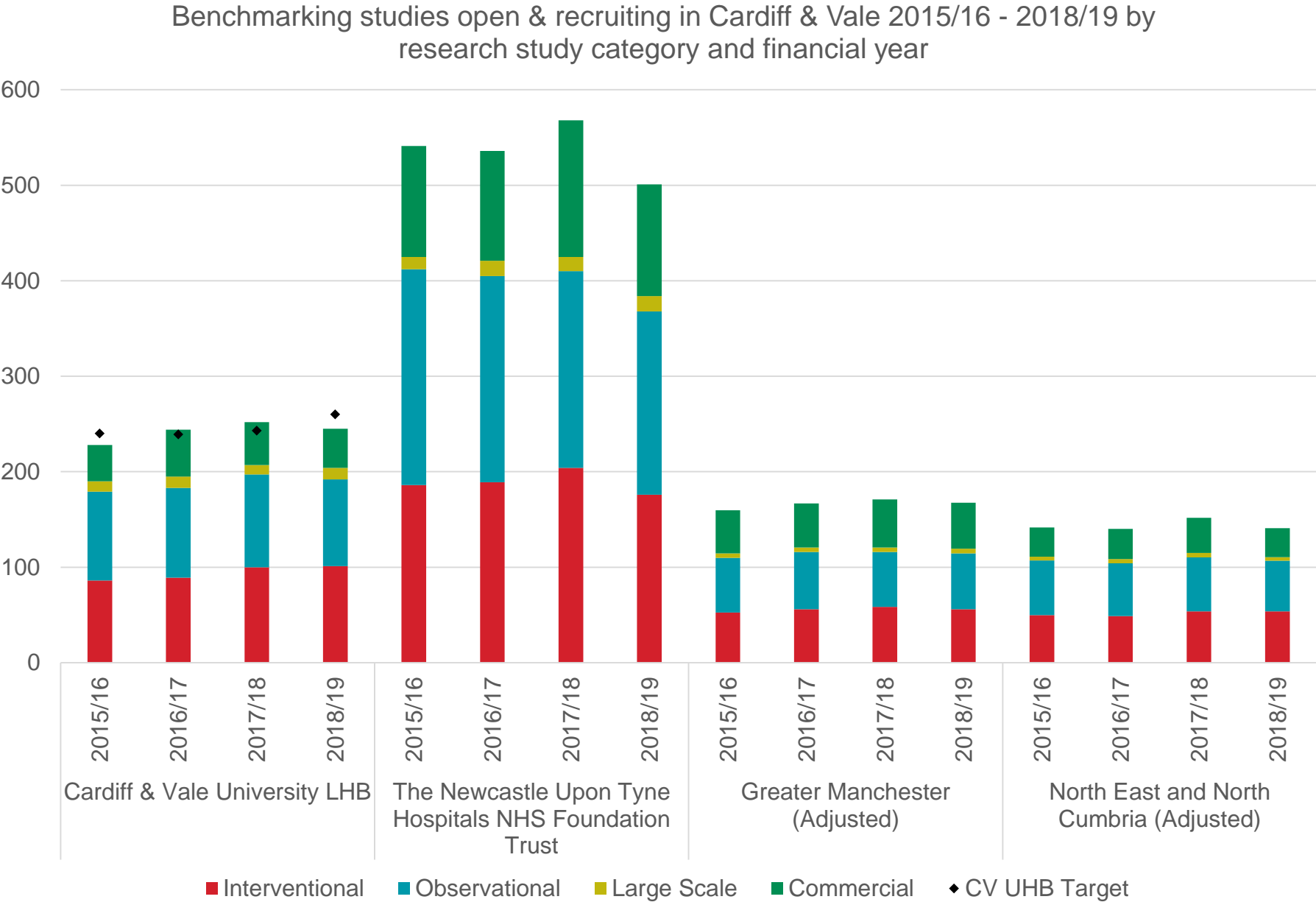


Studies open and recruiting at Cardiff & Vale UHB by study category and financial year

This chart shows a comparison of all studies open and recruiting Cardiff & Vale UHB by study category and financial year.

Note: The data is benchmarked against The Newcastle Upon Tyne Hospitals NHS Foundation Trust, as well as the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation's population).

Source: CPMS Open Data Platform non-commercial and commercial activity.



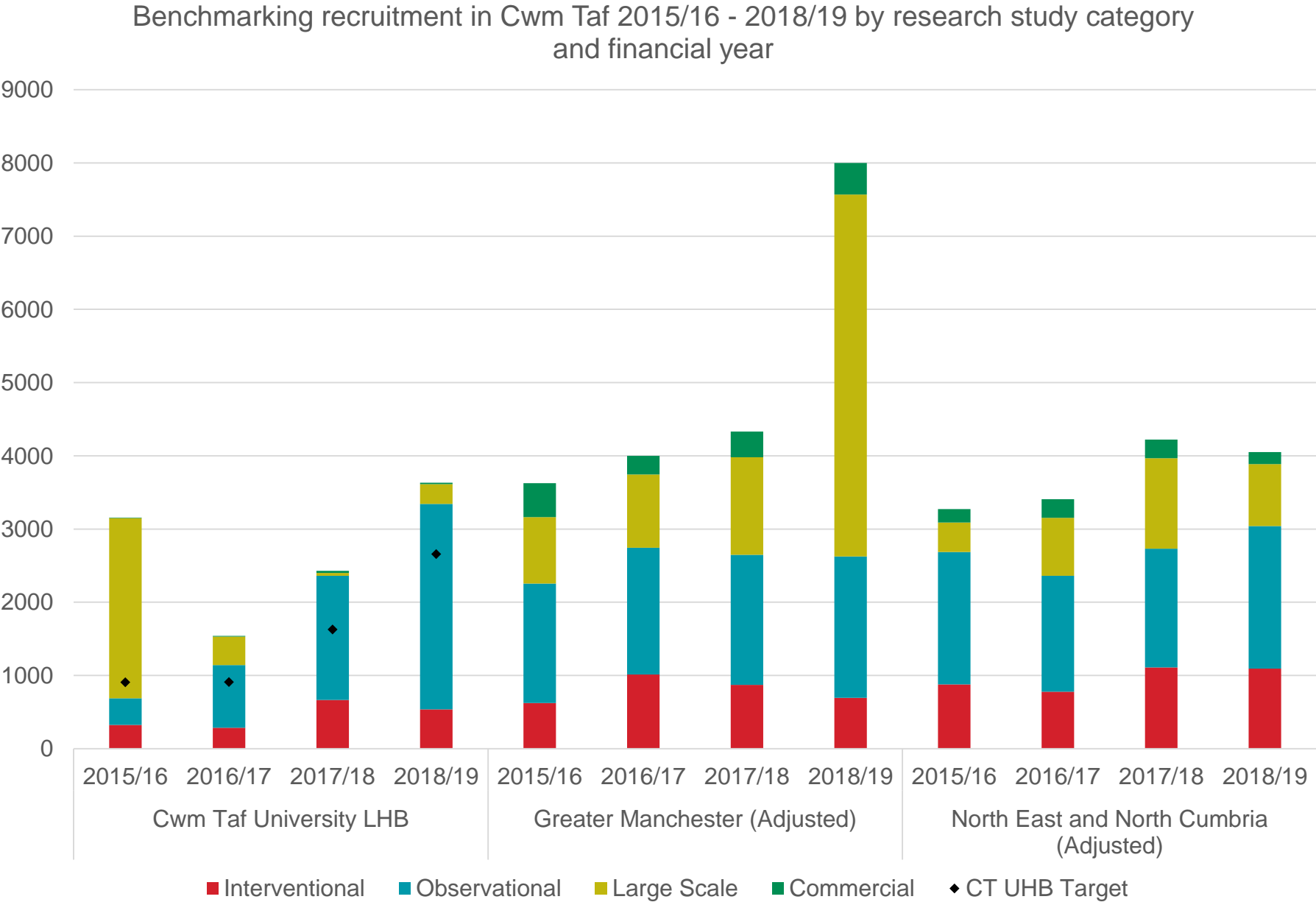
Recruitment at Cwm Taf UHB by study category and financial year

This chart shows recruitment to studies at Cwm Taf UHB by ABF category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation's population).

Note: Cwm Taf UHB is the organisation name up to 31 Mar 2019.

Source: CPMS Open Data Platform non-commercial and commercial activity.



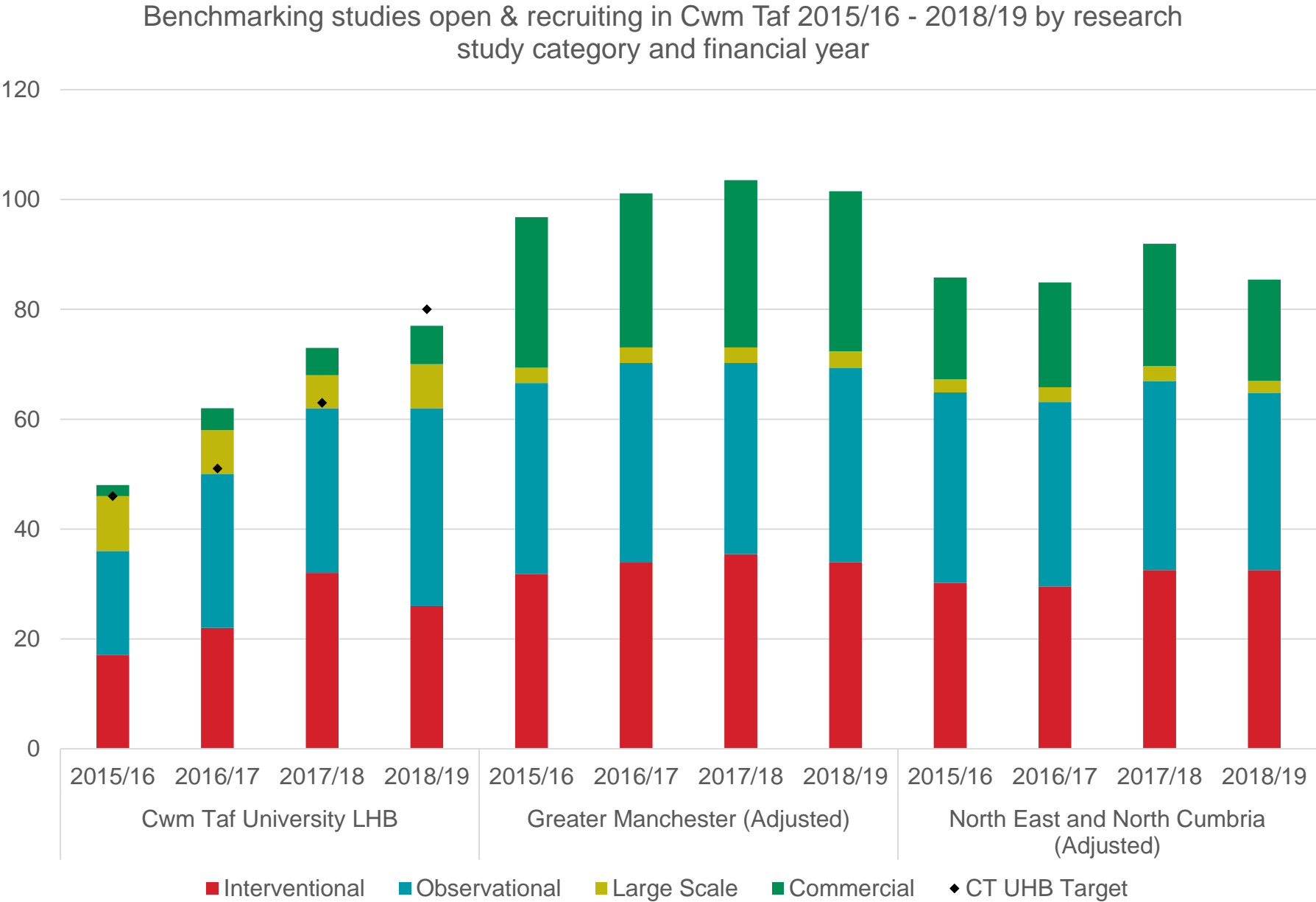
Studies open and recruiting at Cwm Taf UHB by study category and financial year

This chart shows a comparison of all studies open and recruiting Cwm Taf UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Note: Cwm Taf UHB is the organisation name up to 31 Mar 2019.

Source: CPMS Open Data Platform non-commercial and commercial activity.

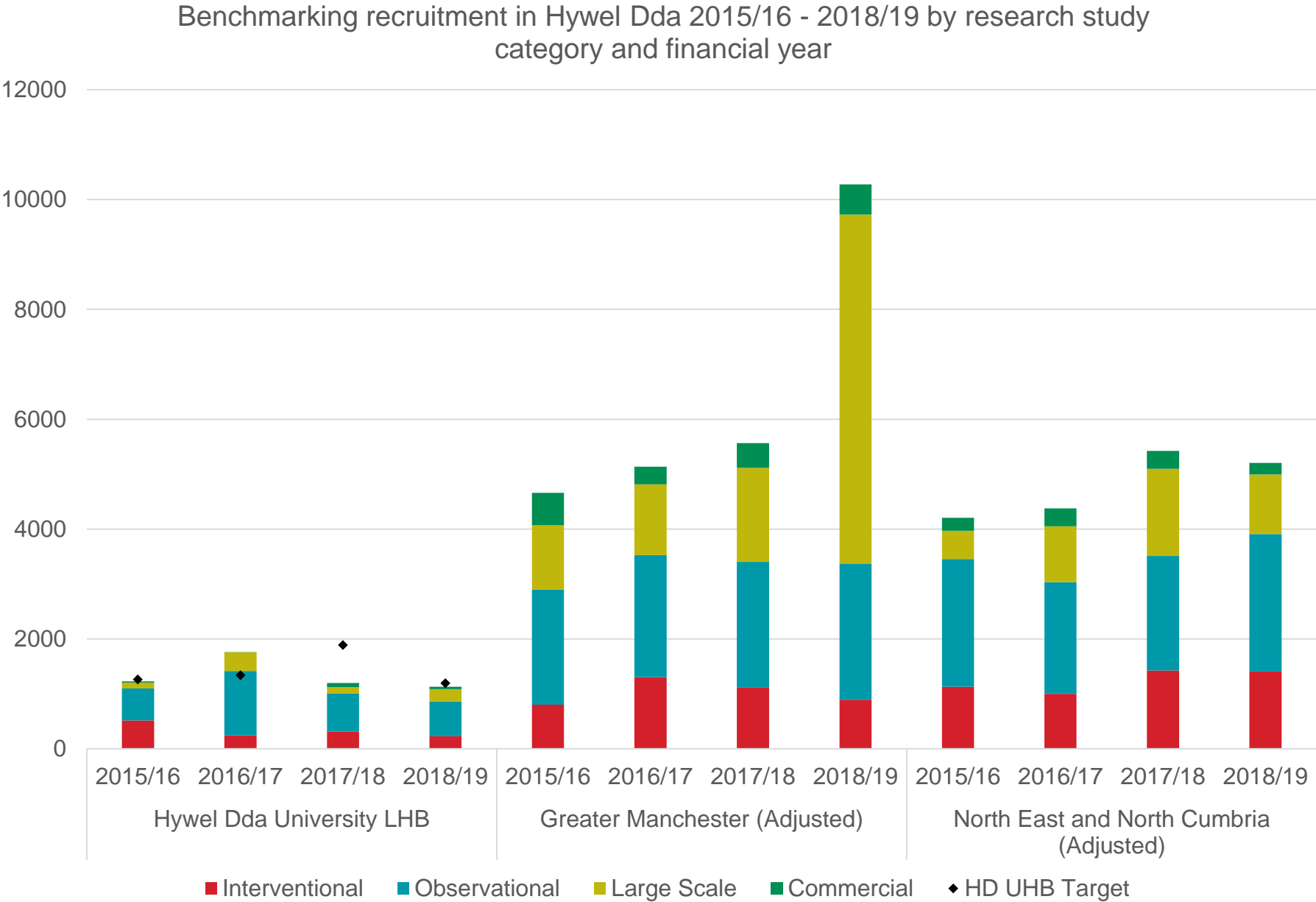


Recruitment at Hywel Dda UHB by study category and financial year

This chart shows recruitment to studies at Hywel Dda UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Source: CPMS Open Data Platform non-commercial and commercial activity.

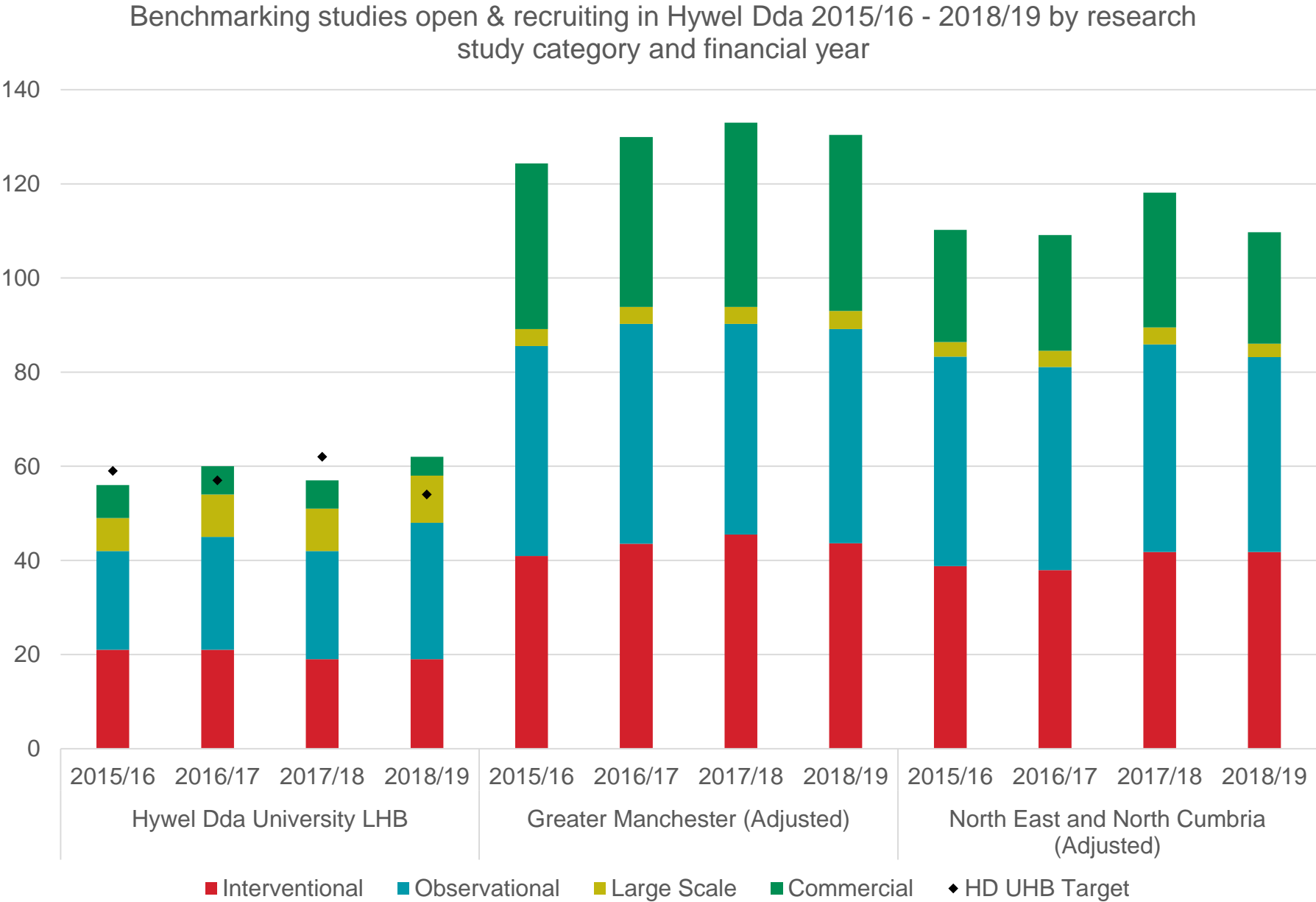


Studies open and recruiting at Hywel Dda UHB by study category and financial year

This chart shows a comparison of all studies open and recruiting Hywel Dda UHB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Source: CPMS Open Data Platform non-commercial and commercial activity.

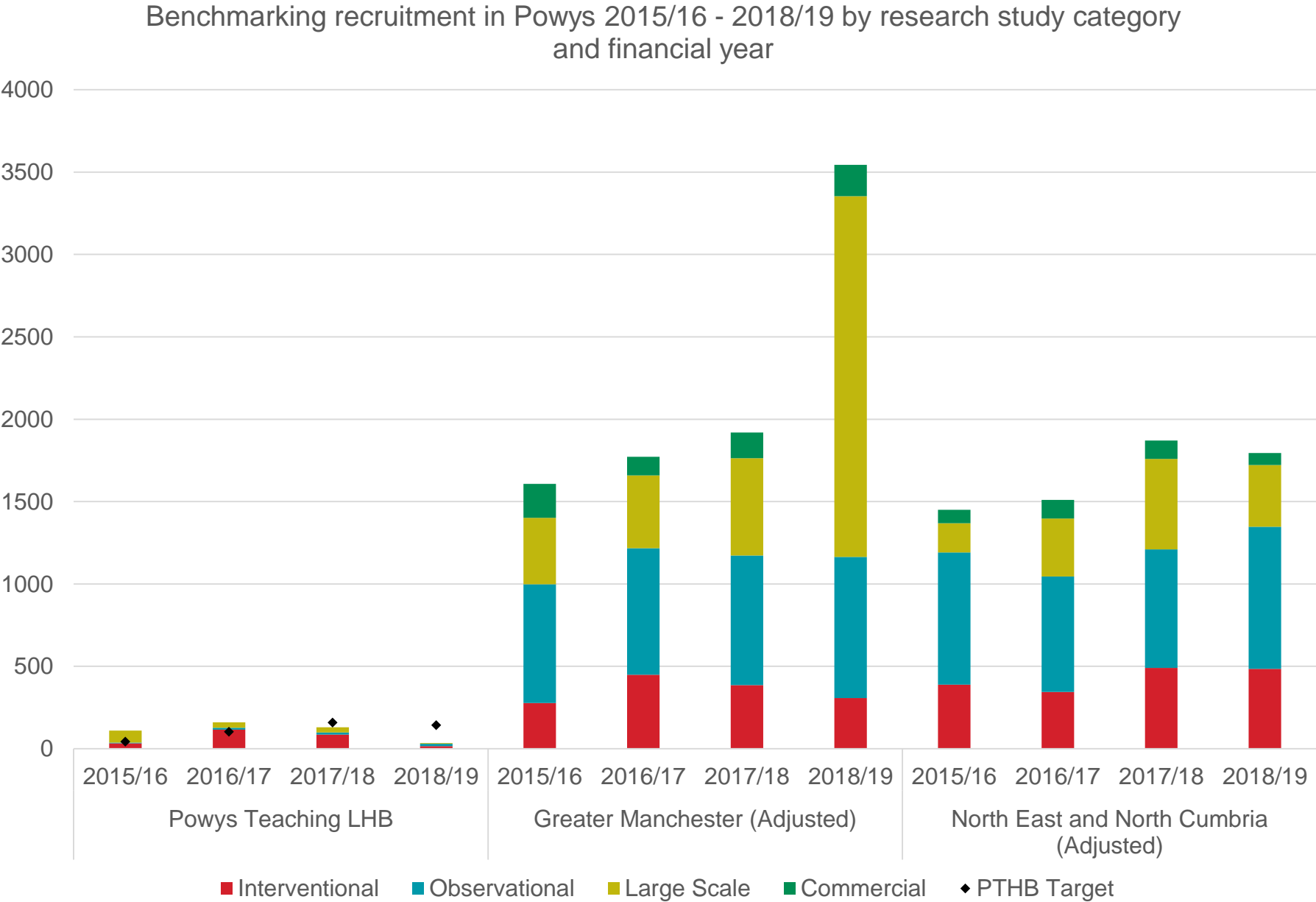


Recruitment at Powys THB by study category and financial year

This chart shows recruitment to studies at Powys THB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation’s population).

Source: CPMS Open Data Platform non-commercial and commercial activity.



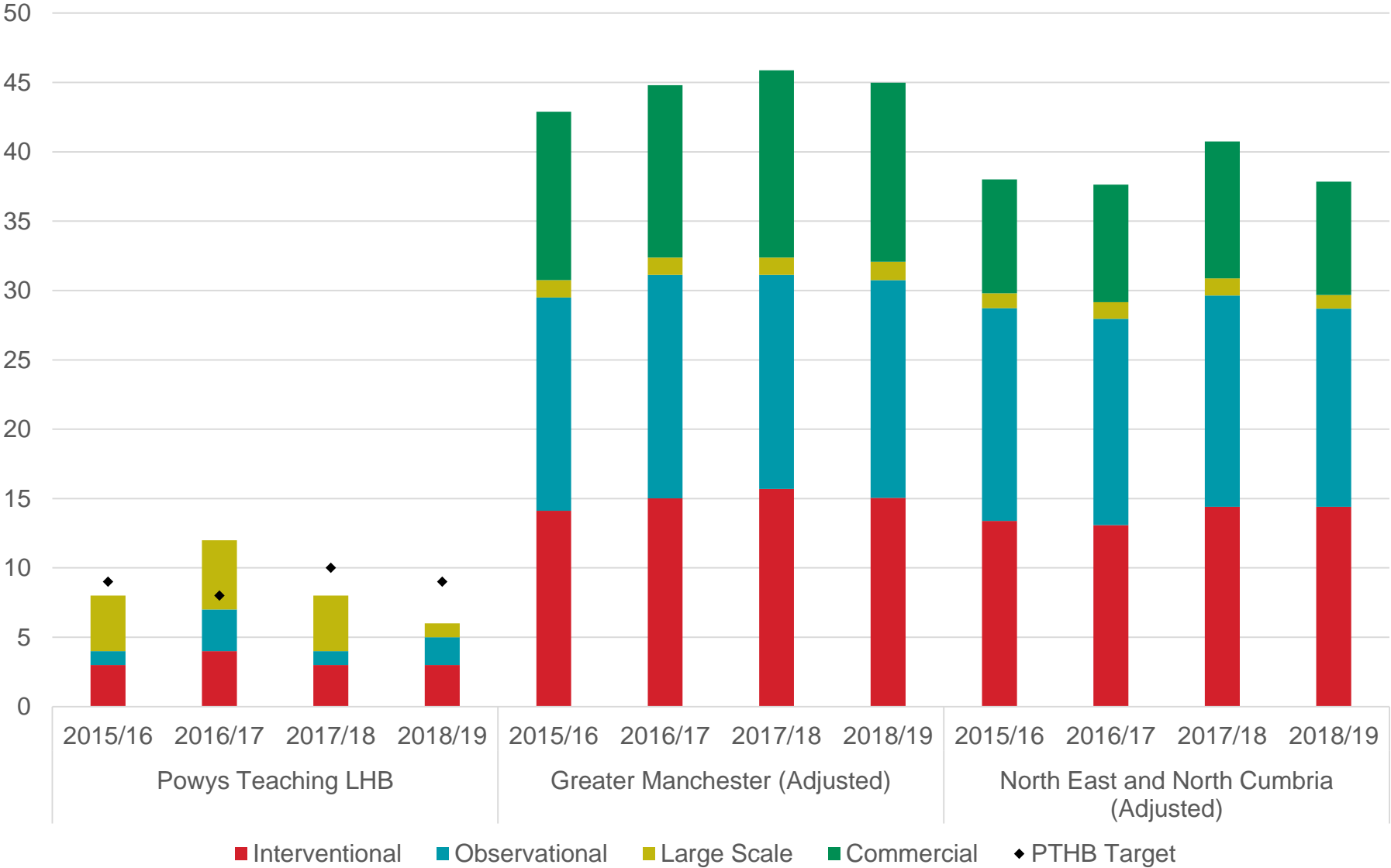
Studies open and recruiting at Powys THB by study category and financial year

This chart shows a comparison of all studies open and recruiting Powys THB by study category and financial year.

Note: The data is benchmarked against the LCRNs of Greater Manchester and of North East & North Cumbria (population adjusted to compare to the NHS organisation's population).

Source: CPMS Open Data Platform non-commercial and commercial activity.

Benchmarking studies open & recruiting in Powys 2015/16 - 2018/19 by research study category and financial year

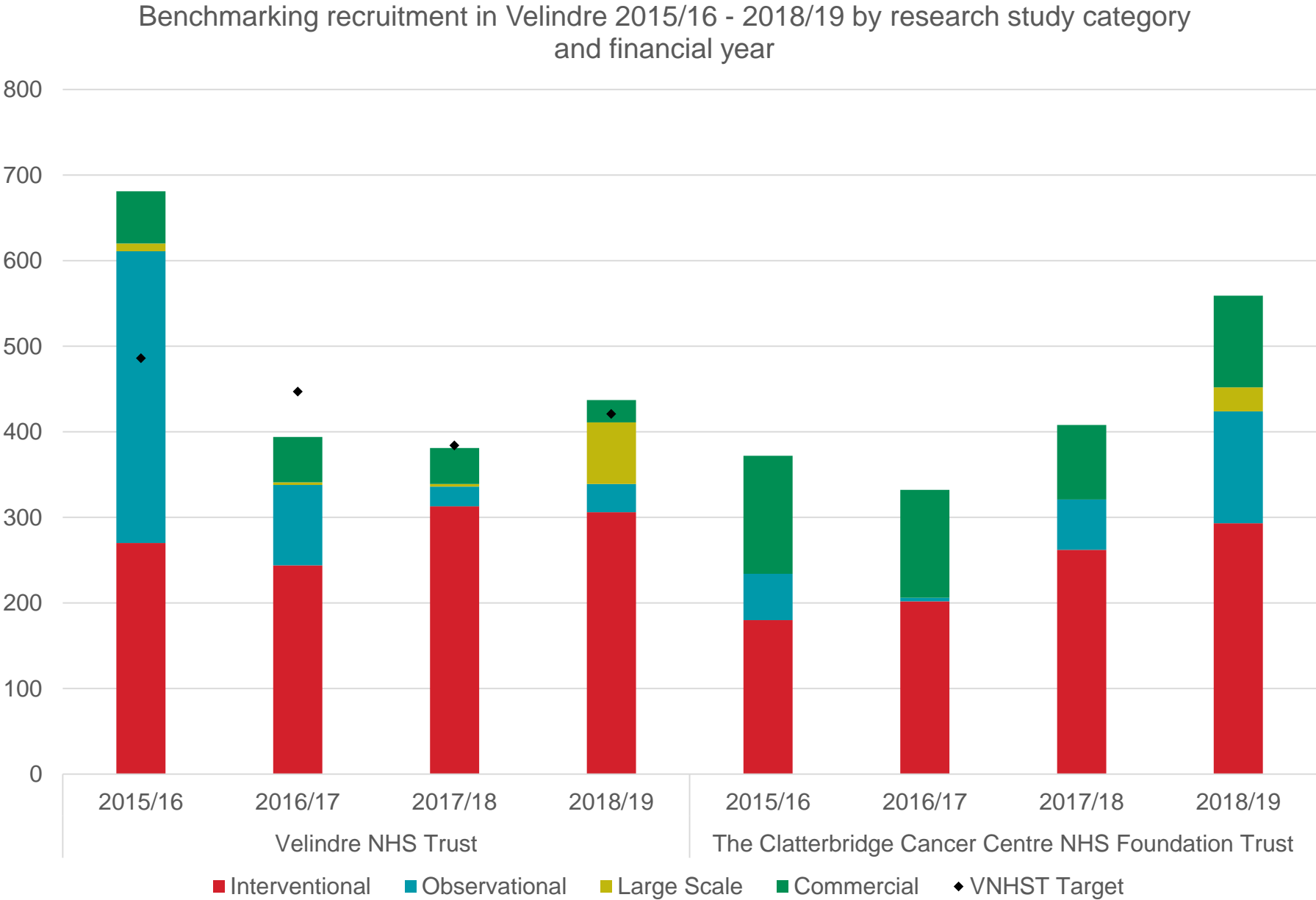


Recruitment at Velindre NHS compared to a similar organisation in England

This chart shows recruitment to studies at Velindre NHS Trust by study category and financial year.

Note: The data is benchmarked against The Clatterbridge Cancer Centre NHS Foundation Trust.

Source: CPMS Open Data Platform non-commercial and commercial activity.

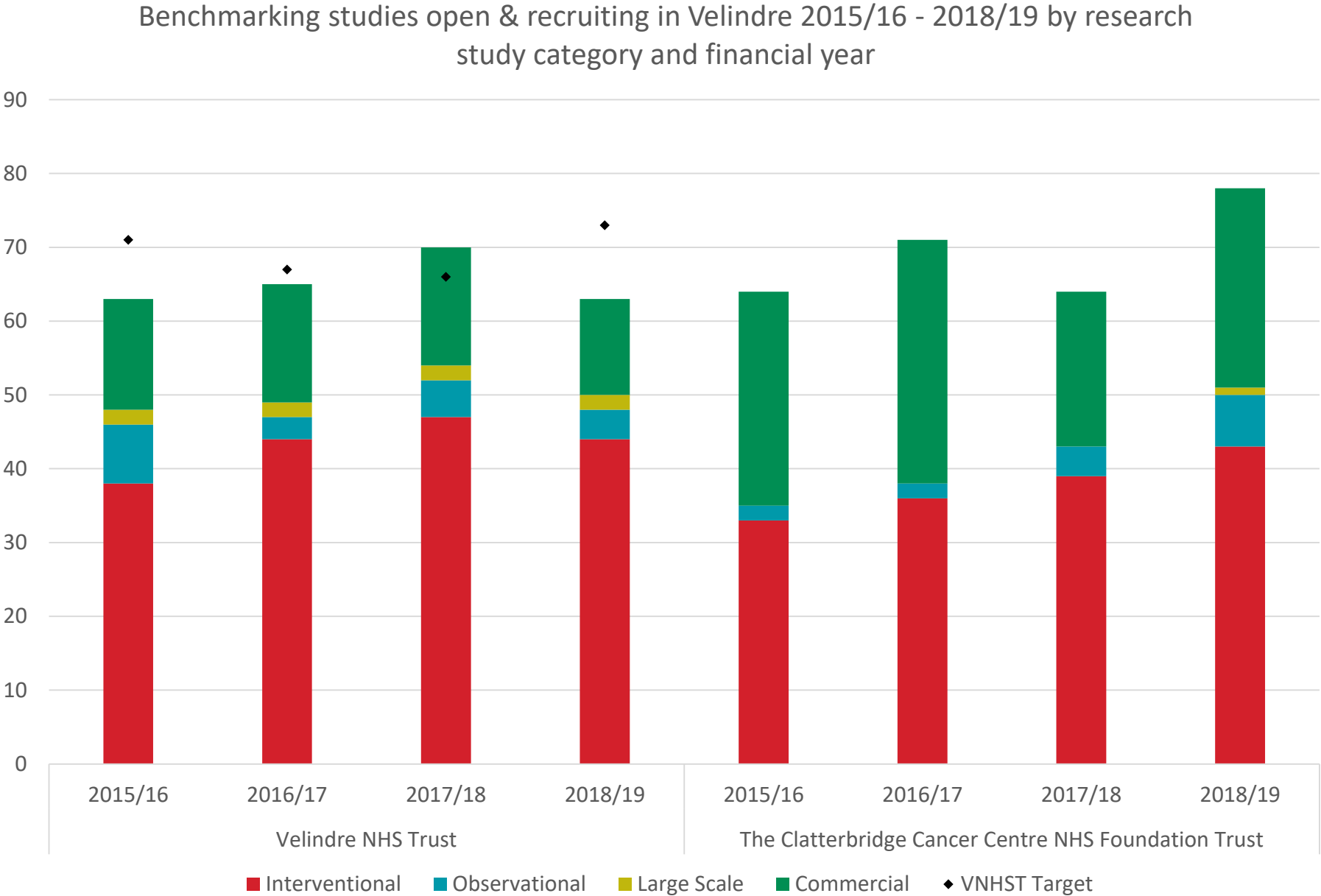


Number of studies at Velindre NHS Trust compared to a similar organisation in England

This chart shows a comparison of all studies open and recruiting Velindre NHS Trust by study category and financial year.

Note: The data is benchmarked against The Clatterbridge Cancer Centre NHS Foundation Trust.

Source: CPMS Open Data Platform non-commercial and commercial activity.

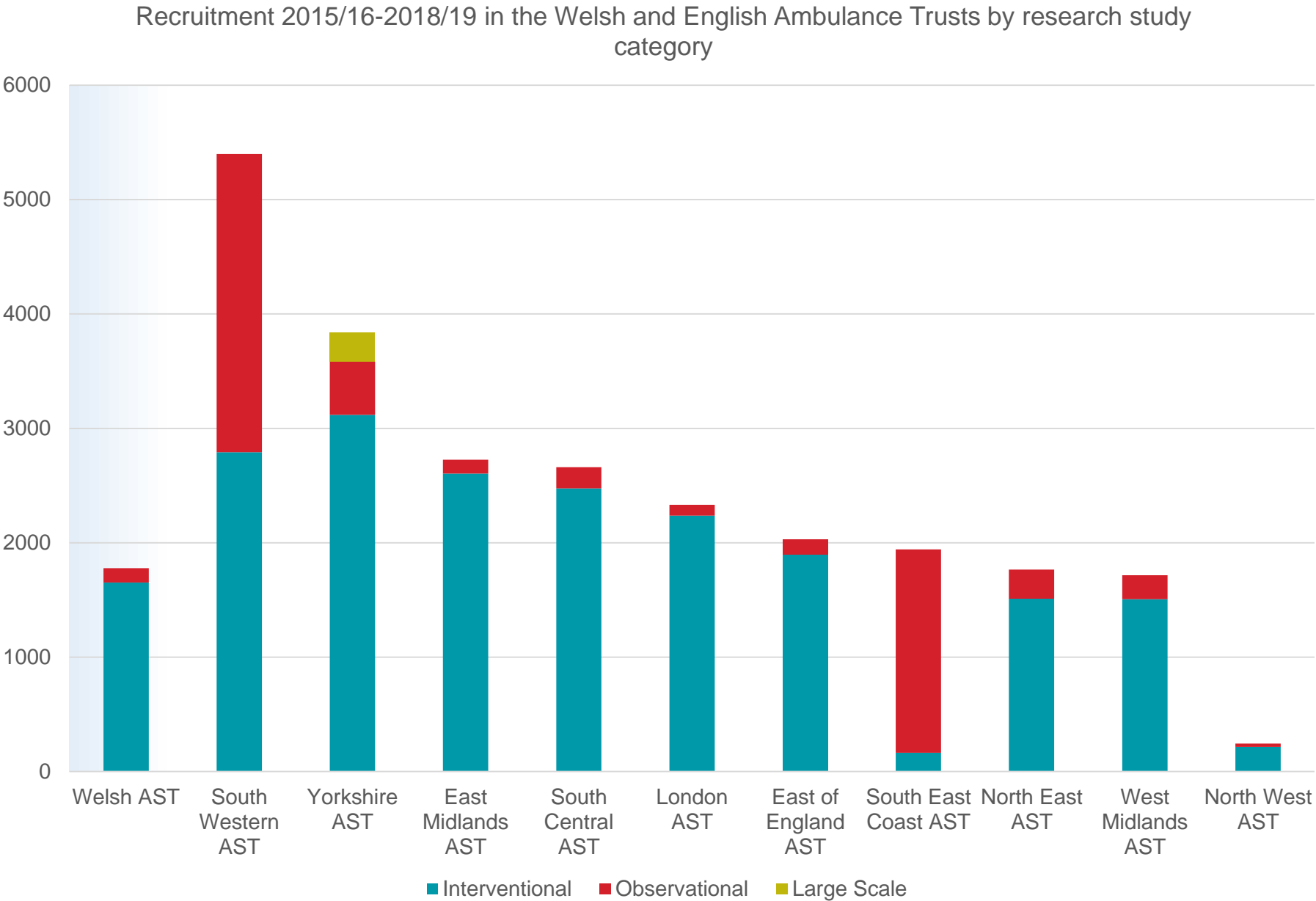


Recruitment at Welsh Ambulance Services NHS Trust compared to ambulance services in England

This chart shows recruitment to studies at Welsh Ambulance Services NHS Trust by study category and financial year.

Note: The data is benchmarked against all NHS England Ambulance Service NHS Trusts.

Source: CPMS Open Data Platform non-commercial and commercial activity.

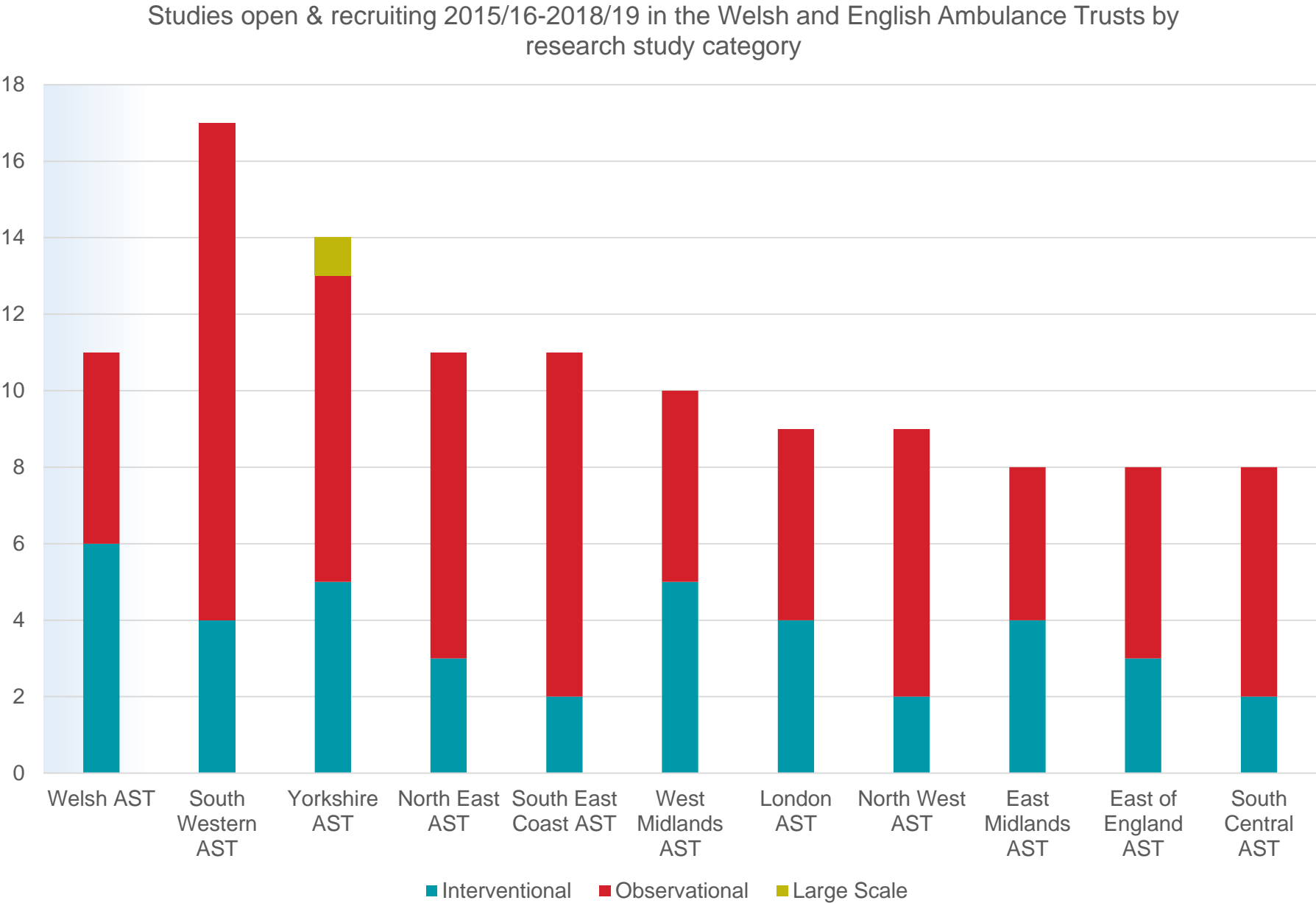


Number of studies at Welsh Ambulance Services NHS Trust compared to ambulance services in England

This chart shows a comparison of all studies open and recruiting Welsh Ambulance Services NHS Trust by study category and financial year.

Note: The data is benchmarked against all NHS England Ambulance Service NHS Trusts.

Source: CPMS Open Data Platform non-commercial and commercial activity.



Section 3

Promoting Wales: responding to and attracting Sponsors to Wales to increase research in Wales for patient benefit

This section includes:

- A comparison of the individual and collective performance of studies with more than one participating NHS organisation in Wales
- An analysis of the collective performance in Wales and how this compares against the UK study rating.
- Study setup analysis, including:
 - Timelines from confirmation that a site will be open for a study to Confirmation of capacity and capability
 - The time from confirmation of capacity and capability to the recruitment of first participant



Combined performance of NHS organisations for studies with more than one participating organisation in Wales

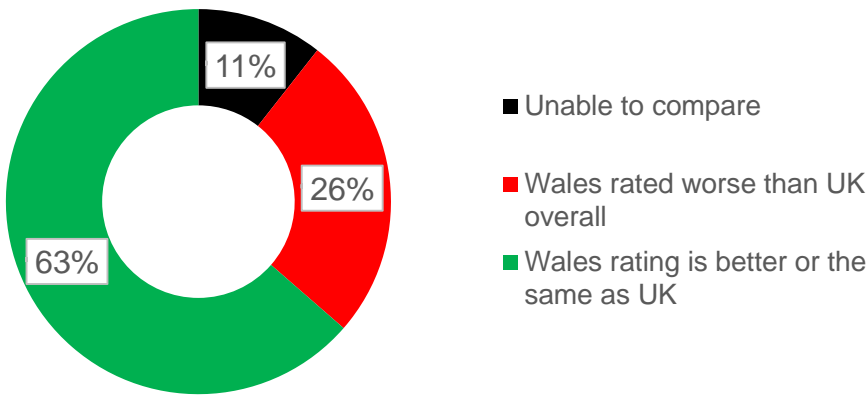
This chart shows combined performance of NHS organisations against the combined target of all participating NHS Wales organisations where there is more than one participating organisation in Wales. This performance is also ranked against the whole UK performance for those studies.

The comparison against the UK wide study rating shows that two thirds of multisite studies are rated the same or better than the UK rating.

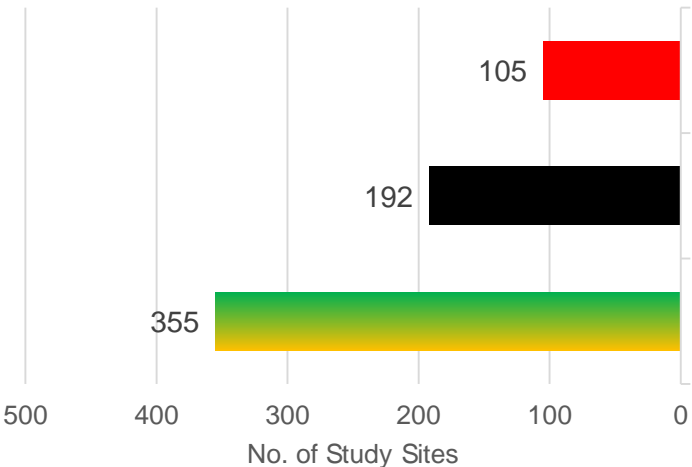
Source: NHS Research Performance Reports – Non-commercial and commercial activity

28% of studies in Wales in 2018/19 were open in more than 1 NHS organisation

All Wales multi-site study performance Vs UK rating

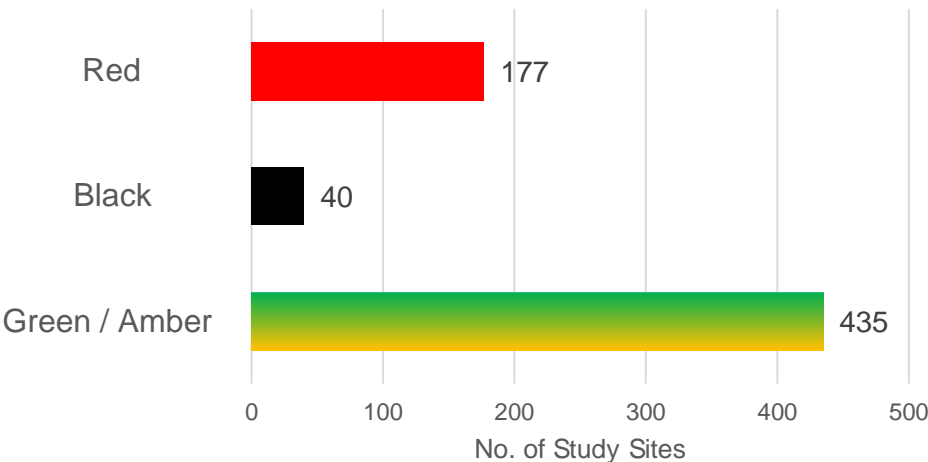


Individual multi-site RAG rating



The graph to the left shows the RAG status' of each study-site based on each individual site's target and recruitment.

All Wales multi-site RAG rating



The graph to the right calculates an All-Wales combined RAG status for each study and assigns it to each site for that study.

Time to recruit the first participant after receipt of NHS local information

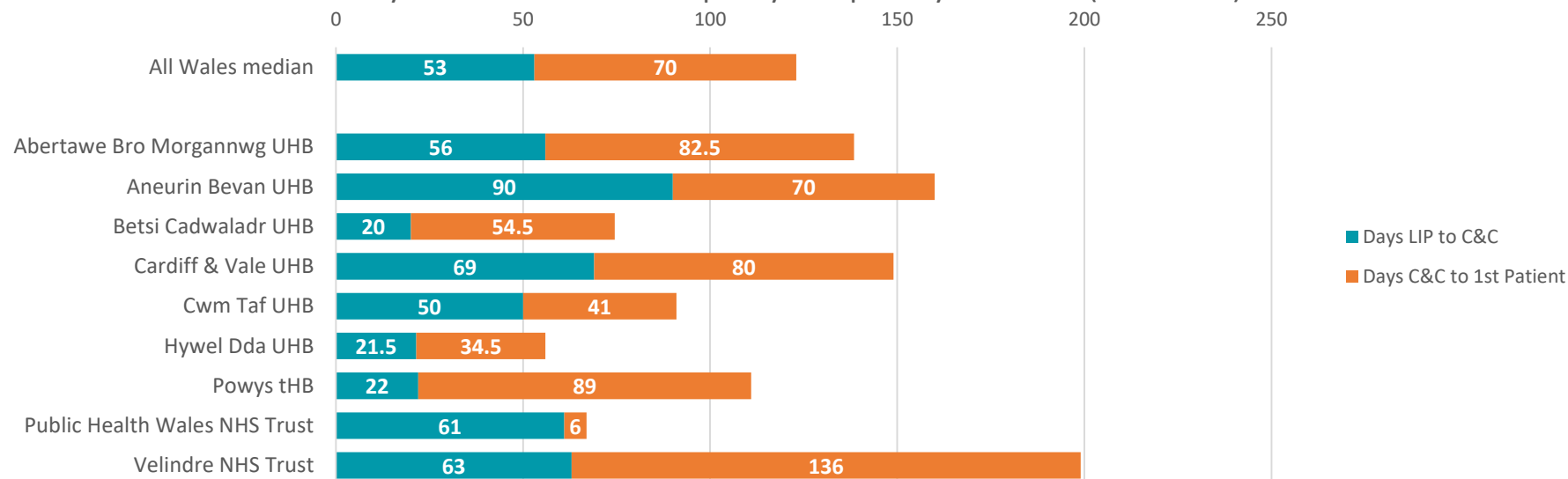
The top graph shows all studies, which includes studies where there may be very low target recruitment numbers, therefore a high number of days from confirmation of capacity and capability to first patient is expected.

The lower graph is only for studies with a target of at least 1 per month, so it would be reasonable to assume that recruitment of the first participant within 30 days.

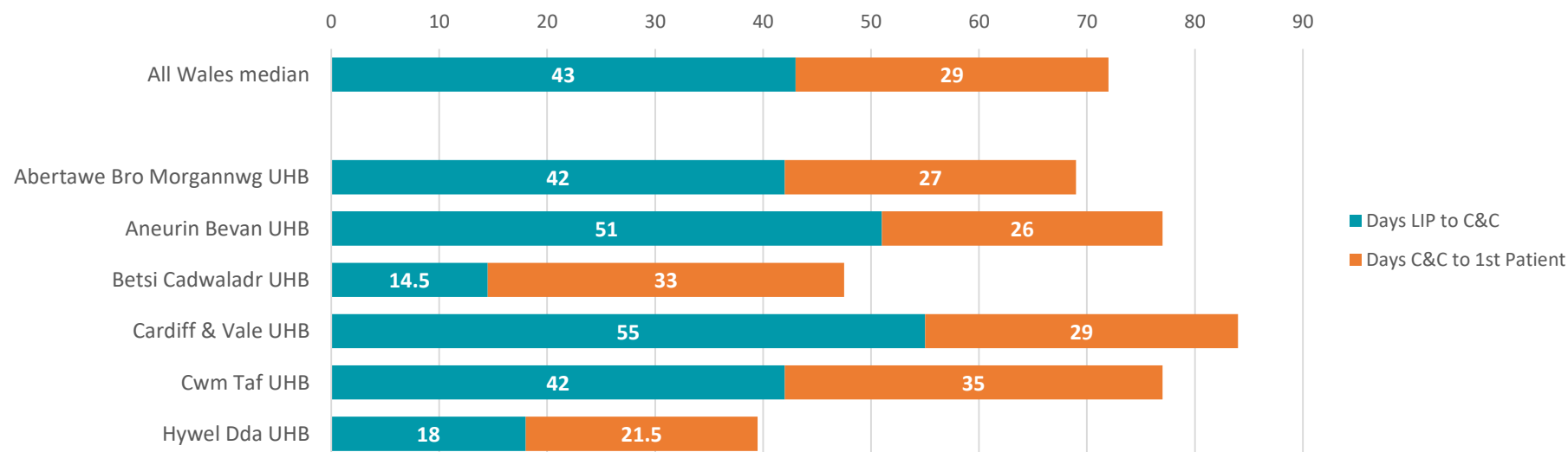
Note: The data only includes studies where the first participant was recruited in 2018/19.

Source: 2018/19 Performance report

Median days to confirmation of capacity & capability and FPFV (All studies)



Median days to confirmation of capacity & capability and FPFV (Target >12 recruits pa.)

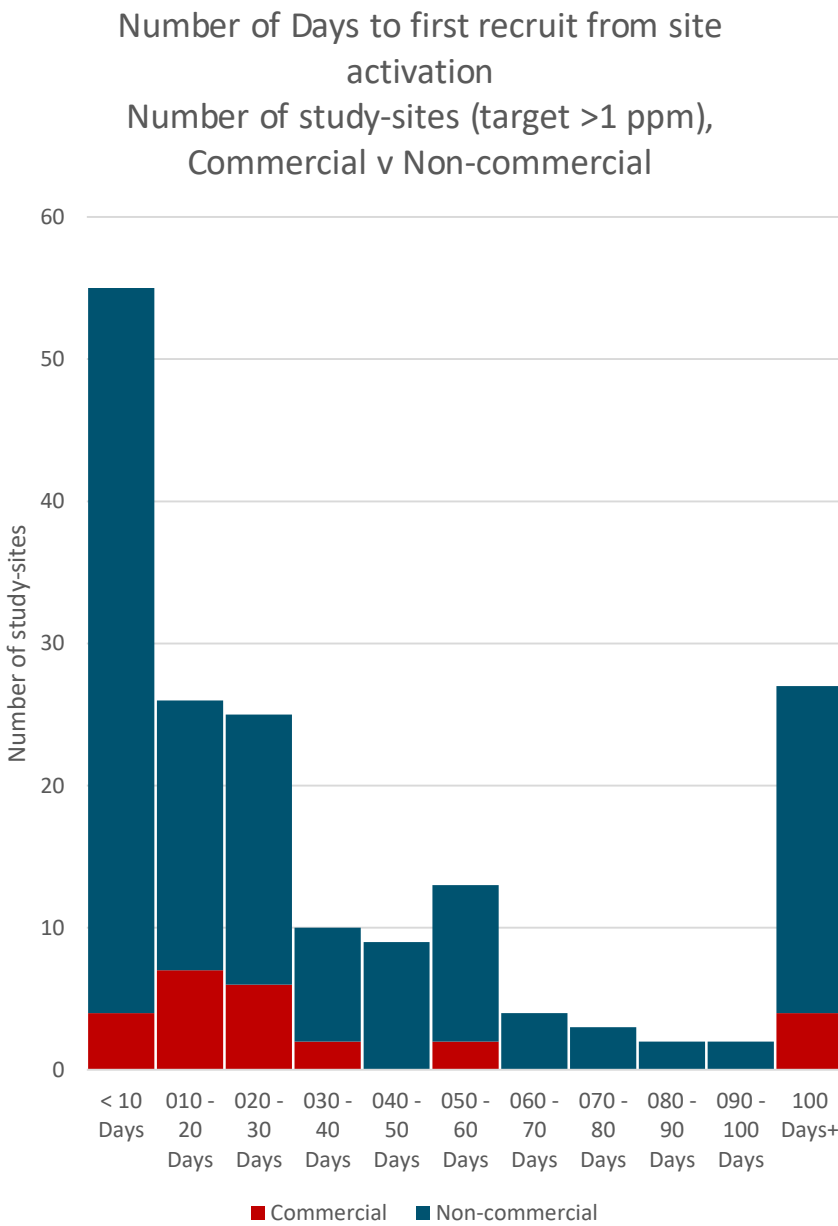
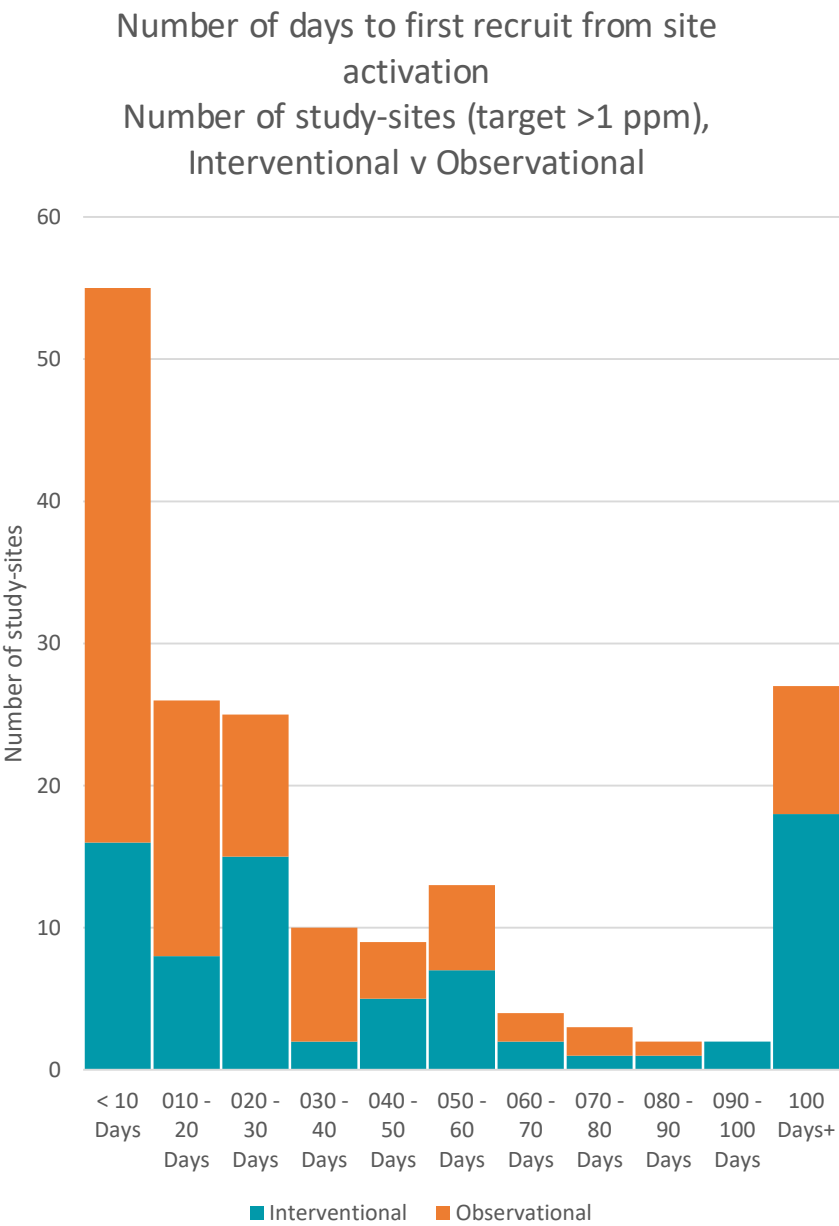


Time to first participant recruited from site activation

This chart shows the number of days from site activation to first participant recruited.

This shows that the majority of studies recruit their first participant between 0-30 days, with a few over 100 days, mainly attributed to non commercial interventional studies.

Note: The data only includes studies with target recruitment greater than 1 participant per month where the first participant was recruited in 2018/19.



Section 4

Welsh led research

This section includes:

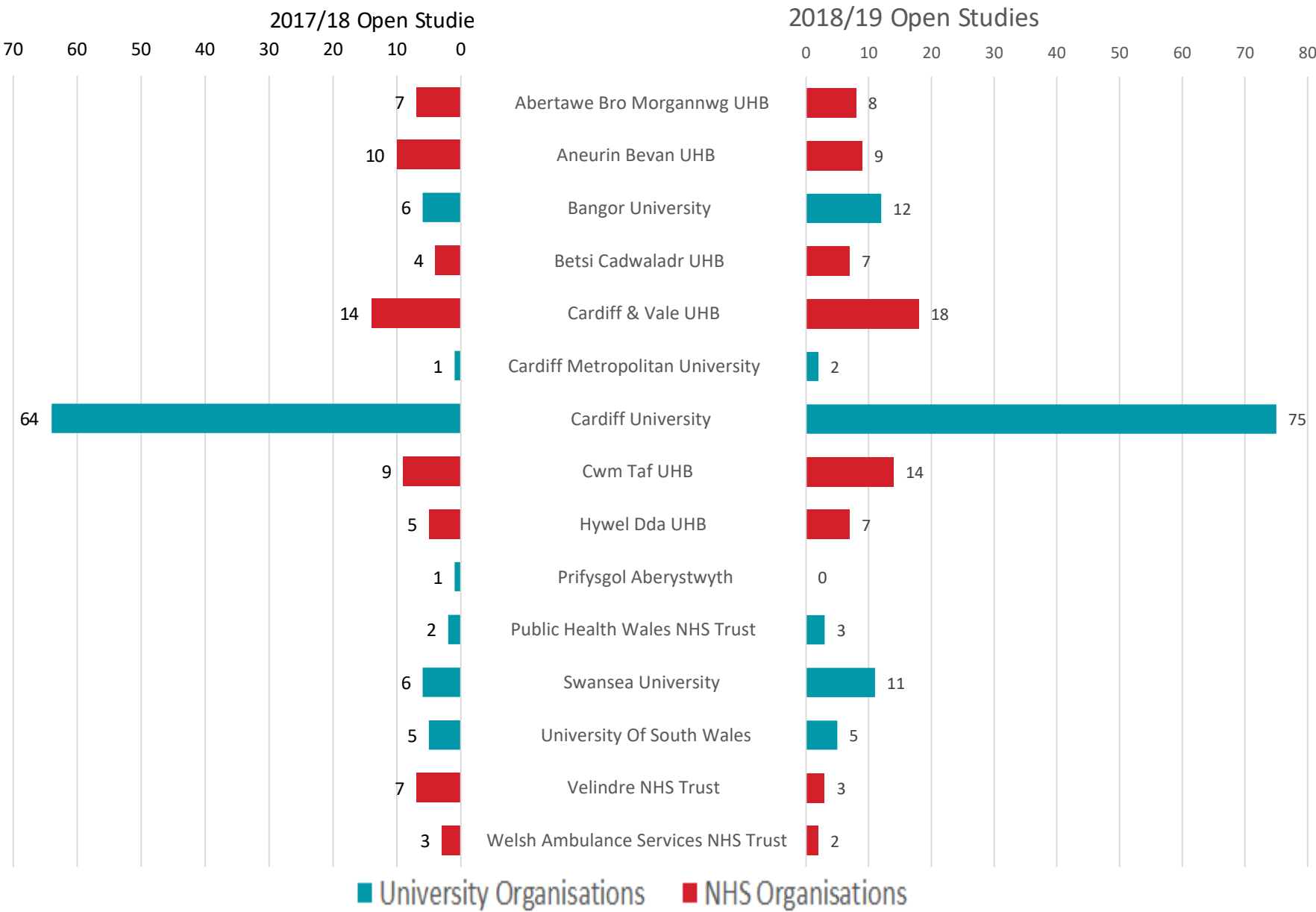
- The number of non-commercial portfolio studies Sponsored by a Welsh organisation (NHS or University)
- The performance of sponsored research studies in Wales.
- The proportion of Welsh Chief Investigator led commercial studies in Wales.

Sponsorship of non-commercial portfolio studies Welsh organisations,

This chart shows the distribution and number of non-commercial portfolio studies sponsored by Welsh organisations (NHS organisation or university) by financial year.

Cardiff University sponsors the highest number of studies by far compared to any other Sponsor in Wales.

Source: 2018/19 and 2017/18 performance reports



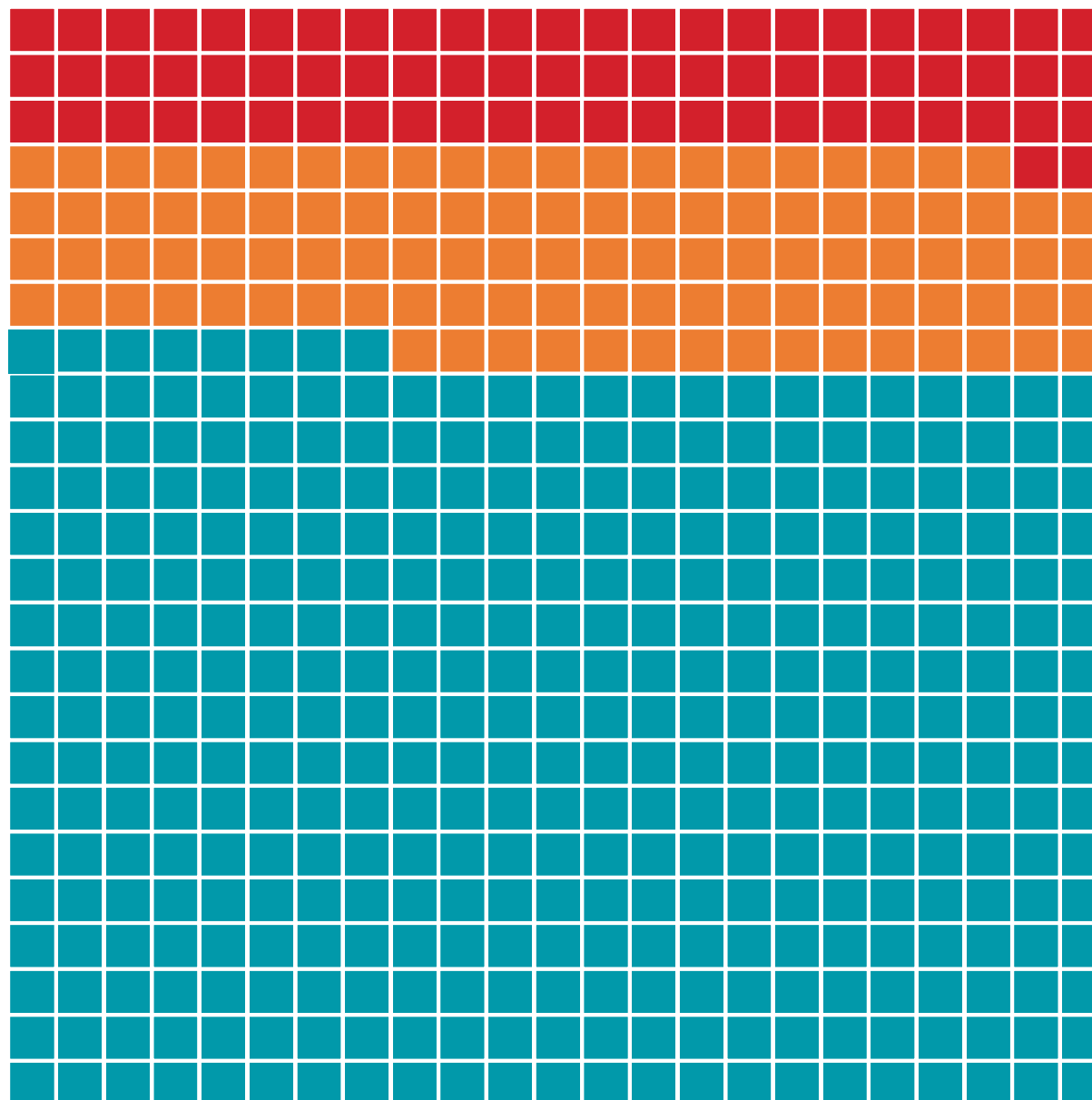


Sponsor type for studies running in Wales

This chart shows the sponsor type for the studies running in Wales during 2018/19, by type of sponsoring organisation. The change from financial year 2017/18 is also shown.

68% of studies run in Wales are sponsored by an organisation outside Wales.

Source: 2018/19 and 2017/18 performance reports



71

Sponsored by a Welsh NHS organisation
(Up 3 from 2017/18)

105

Sponsored by Welsh university
(Up 8 from 2017/18)

376

Sponsored outside Wales
(Up 53 from 2017/18)

Performance rating of studies sponsored by NHS Wales organisations

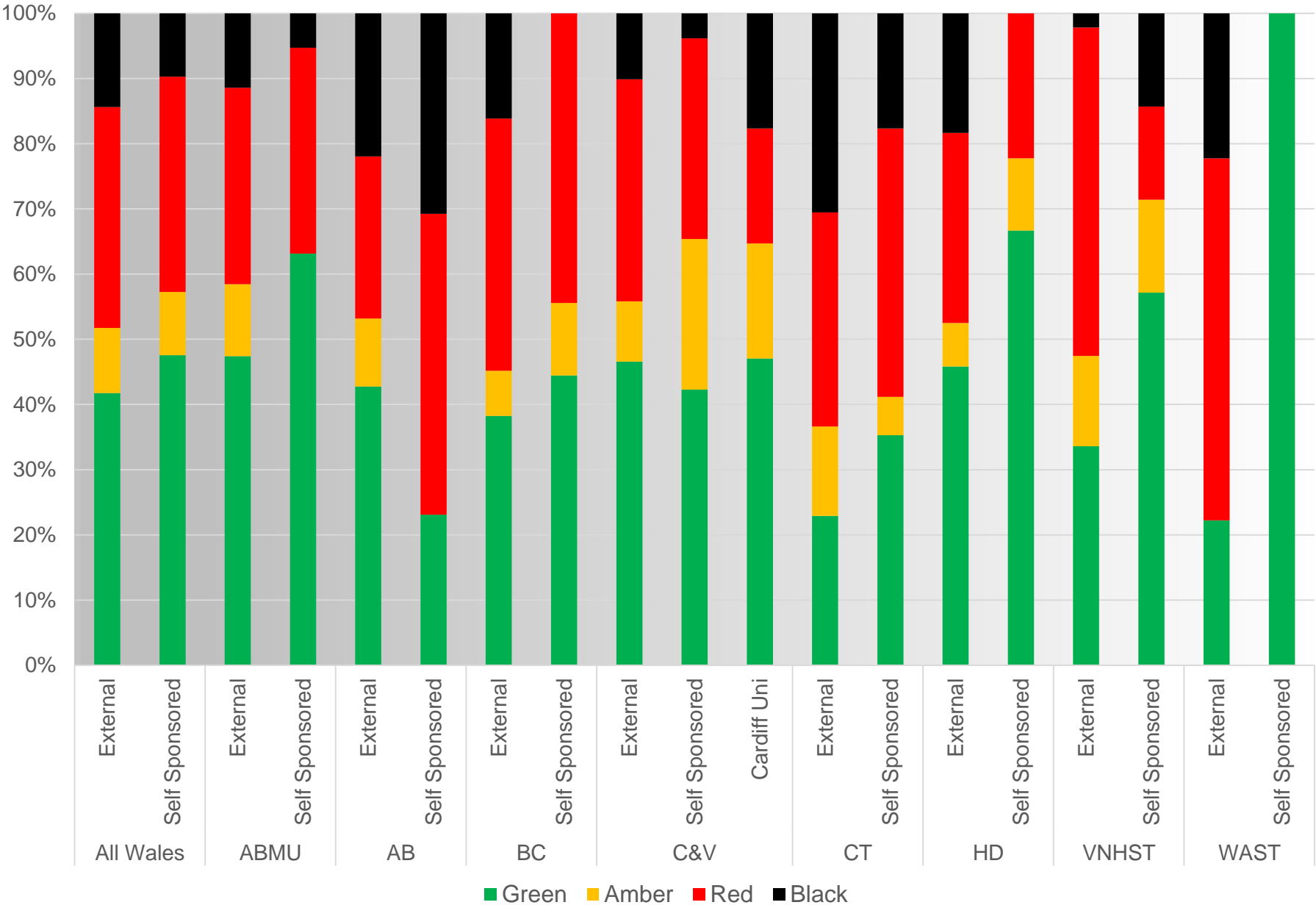
This chart shows the performance rating for both open and closed studies sponsored by NHS Wales organisations.

This shows a general trend that self-sponsored studies tend to perform slightly better than externally sponsored studies in Wales.

Note:

The data is only included for those organisations that sponsor at least 5 studies.

Source: 2015/16 to 2018/19 performance reports



Location of CI for commercial studies open in Wales

This chart shows that 15% of the Chief Investigators for commercially sponsored studies are located in Wales.



Source: 2018/19 Performance Report

■ CI Based in Wales: 32 ■ CI Based Outside Wales: 187

Section 5

Research performance in Wales

- Balance of portfolio studies in Wales and trend analysis
- Monthly recruitment trends per NHS organisation
- All Wales performance summary against key indicators
- Recruitment to target in Wales
- Actual performance vs. prediction for last year
- Forecasted performance based on current recruitment and delivery to target on existing studies
- Expected closure of studies over next 12 months
- Red/ Amber/ Green status of studies expected to close in 2019/20
- Comparison of performance of studies with and without delivery staff support

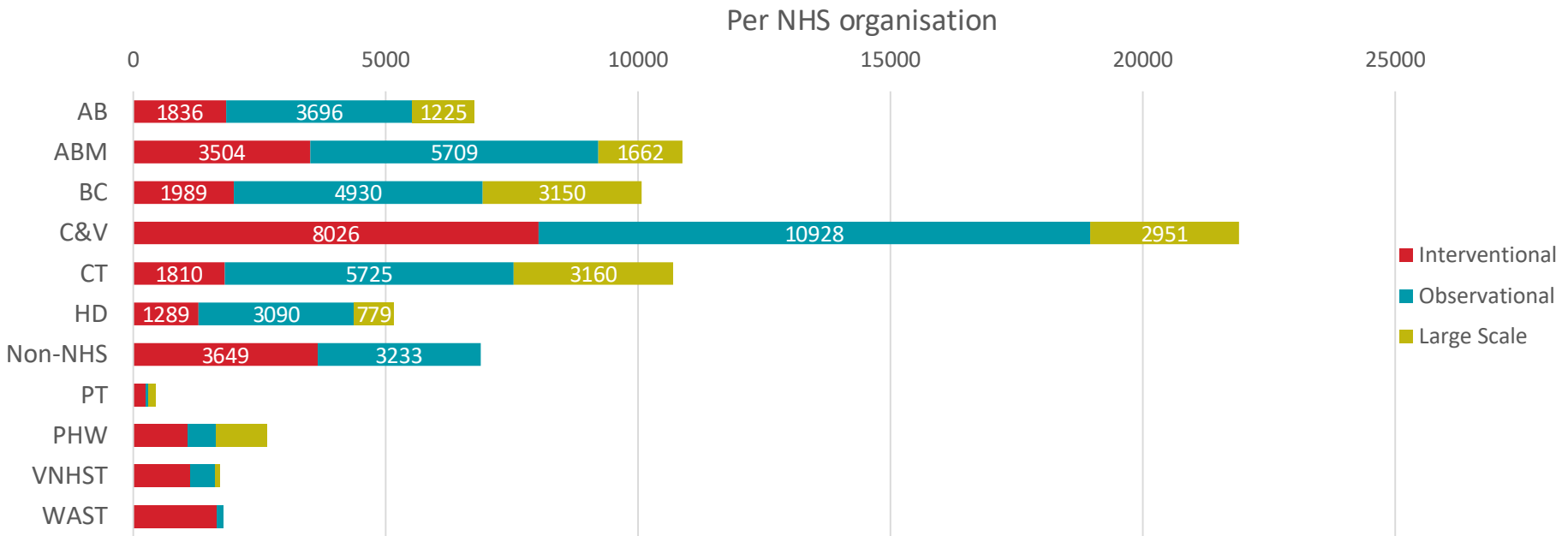
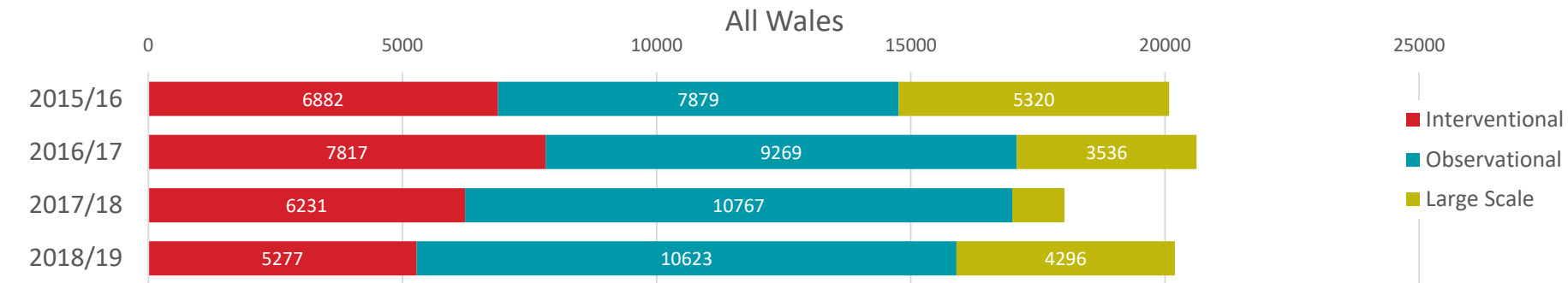
Overview of non-commercial recruitment to portfolio studies in Wales

These charts show an overview of recruitment to studies in Wales.

Note: The data presented is:

- Recruitment to studies in Wales 2015/16 to 2018/19, by ABF category.
- Recruitment to studies in Wales 2015/16 to 2018/19, by NHS organisation and ABF category.
- Percentage recruitment to portfolio studies in Wales 2015/16 to 2018/19, by NHS organisation and ABF category.

Source: ODP



	AB	ABM	BC	C&V	CT	HD	Non-NHS	PT	PHW	VNHST	WAST
Interventional	27%	32%	20%	37%	17%	25%	53%	57%	40%	66%	93%
Observational	55%	52%	49%	50%	54%	60%	47%	10%	21%	29%	7%
Large Scale	18%	15%	31%	13%	30%	15%	0%	33%	38%	5%	0%

NHS organisation's monthly non- commercial recruitment activity

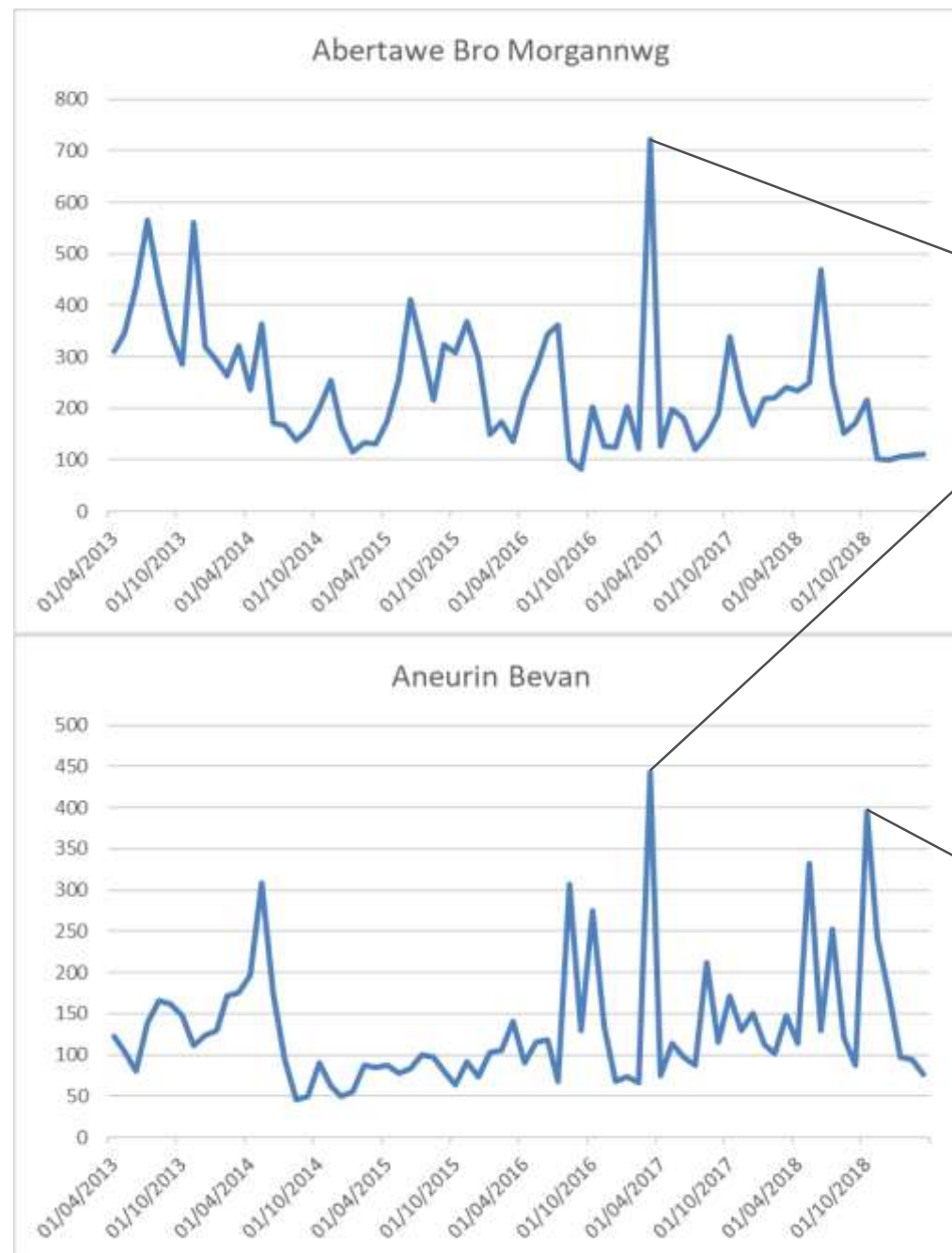
These charts show the
monthly recruitment activity
of:

- Abertawe Bro Morgannwg UHB
- Aneurin Bevan UHB

Note:

- Studies that contributed to any activity spike are indicated.
- The y-axis scale may also differ

Source: Open Data Platform



EpiCCS

Vismodegib resistance in
basal cell carcinoma

NHS organisation's monthly non- commercial recruitment activity

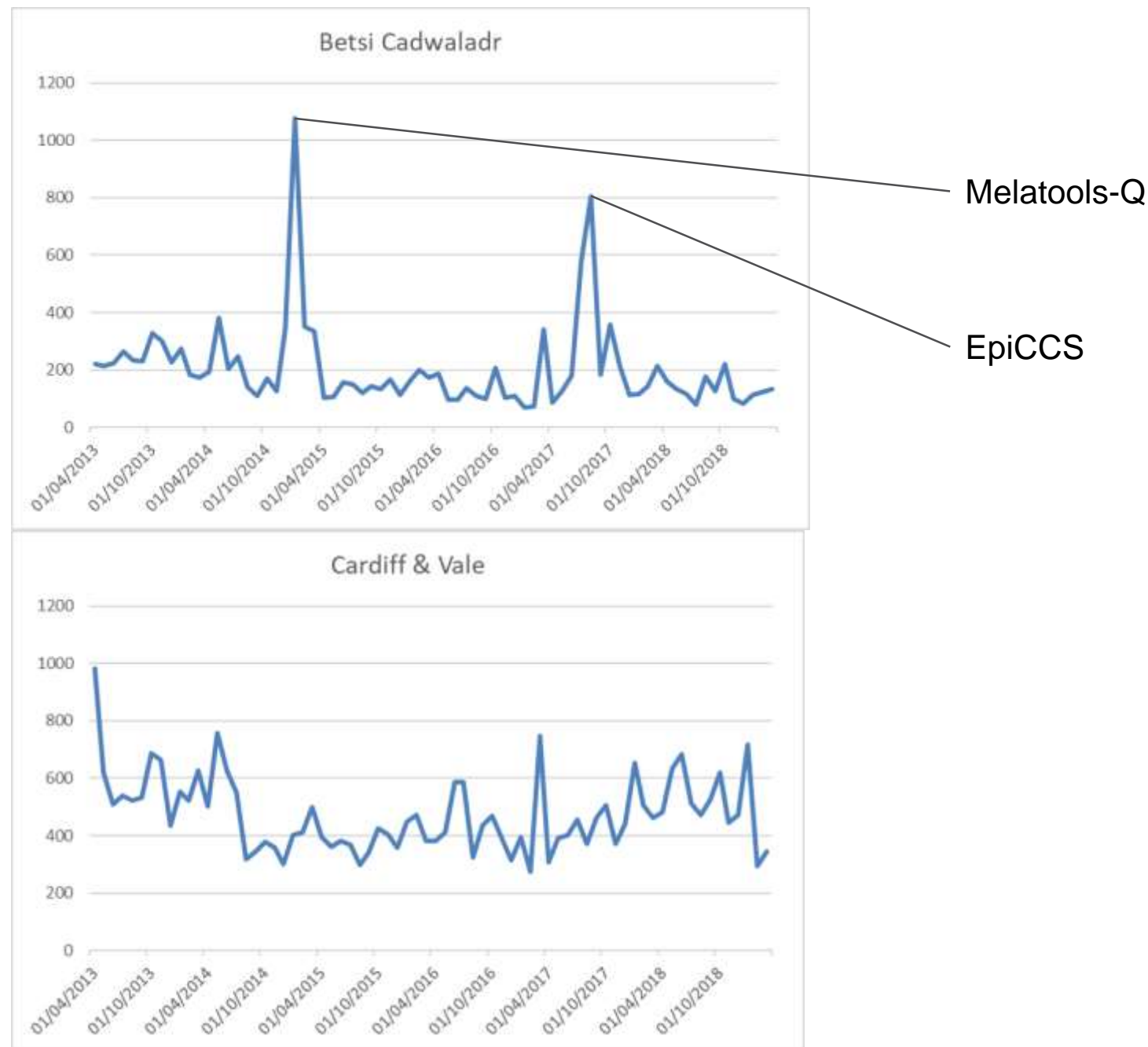
These charts show the
monthly recruitment activity
of:

- Betsi Cadwaladr UHB
- Cardiff & Vale UHB

Note:

- Studies that contributed to any activity spike are indicated.
- The y-axis scale may also differ

Source: Open Data Platform



NHS organisation's monthly non- commercial recruitment activity

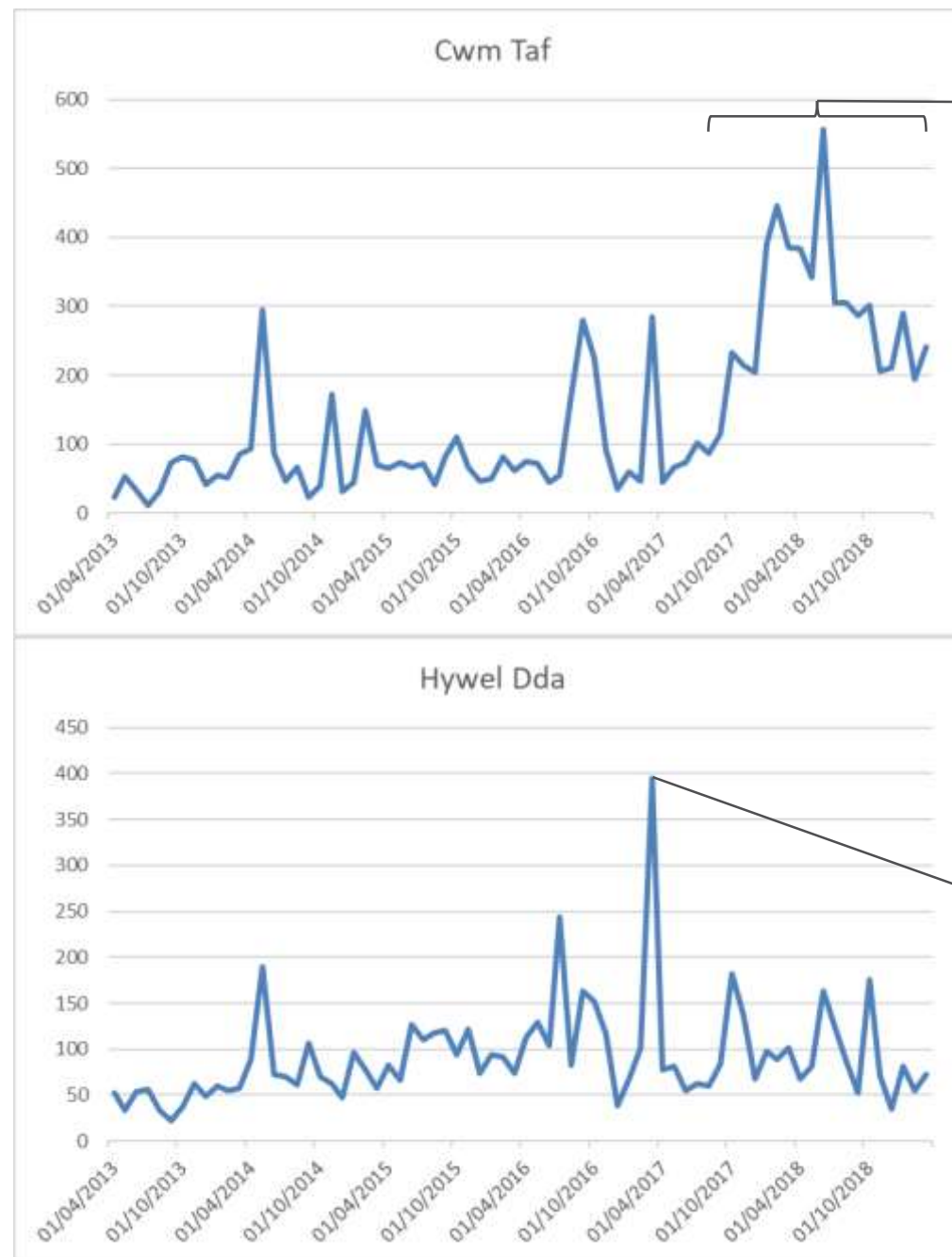
These charts show the
monthly recruitment activity
of:

- Cwm Taf UHB
- Hywel Dda UHB

Note:

- Studies that contributed to any activity spike are indicated.
- The y-axis scale may also differ

Source: Open Data Platform



GENTHYR,
MYCO WELL D-ONE

EpiCCS

NHS organisation's monthly non-commercial recruitment activity

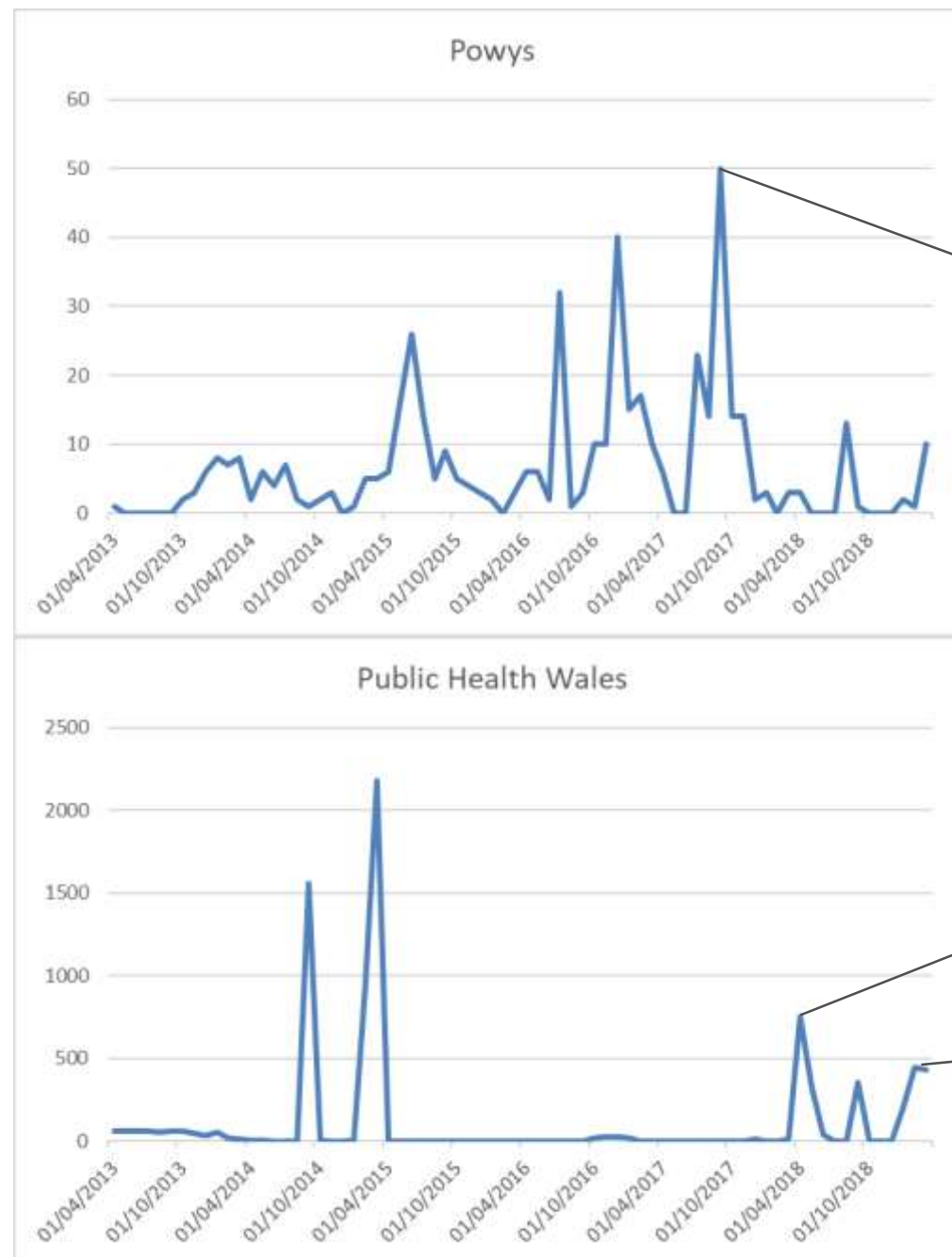
These charts show the monthly recruitment activity of:

- Powys THB
- Public Health NHS Trust

Note:

- Studies that contributed to any activity spike are indicated.
- The y-axis scale may also differ

Source: Open Data Platform



Patient report outcome measures for Neurological Conditions

Be on the TEAM, measuring ACEs

ACE Evaluation

NHS organisation's monthly non-commercial recruitment activity

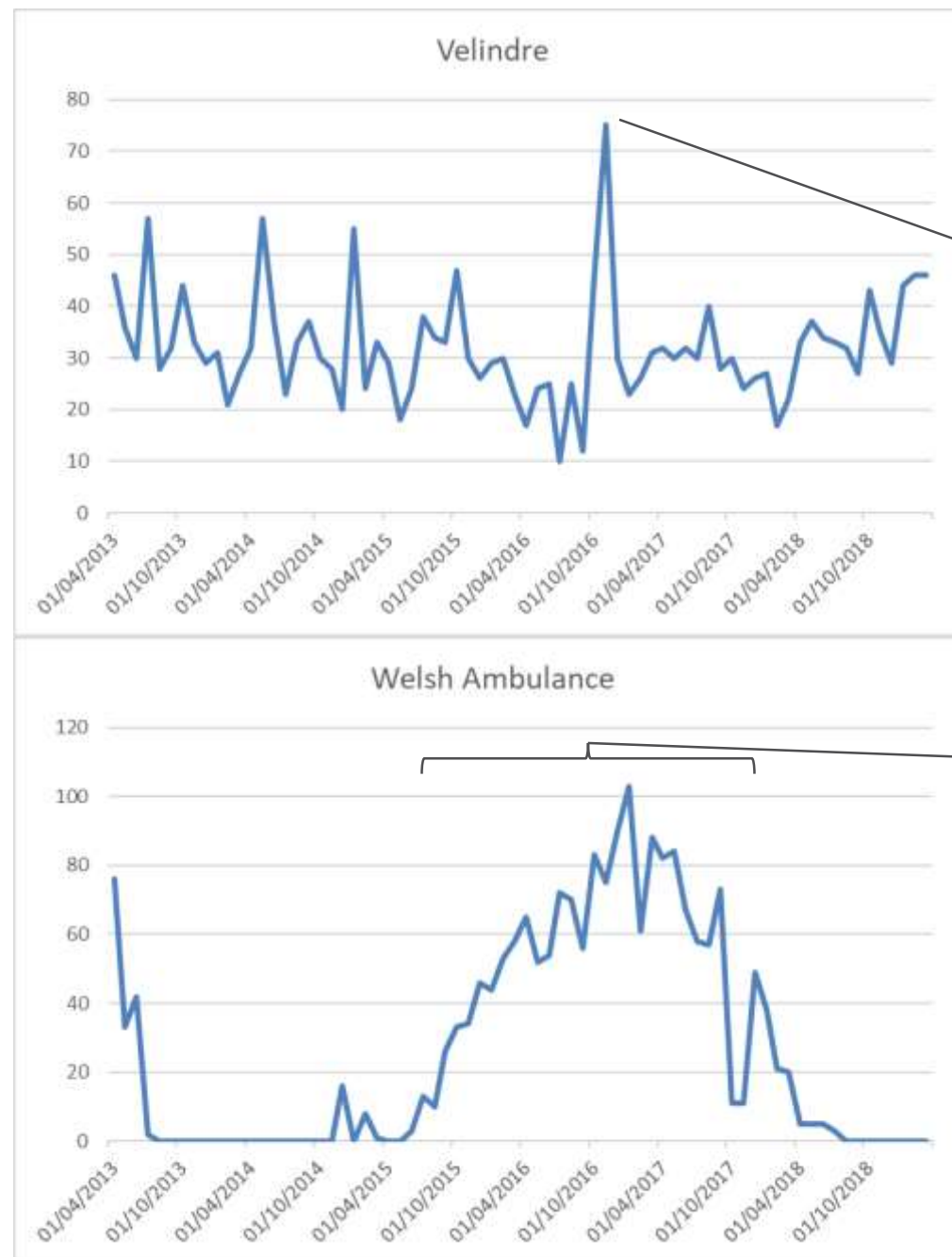
These charts show the monthly recruitment activity of:

- Velindre NHS Trust
- Welsh Ambulance Services NHS Trust

Note:

- Studies that contributed to any activity spike are indicated.
- The y-axis scale may also differ

Source: Open Data Platform



Nurse decision making
about the delivery of skin
care to patients

PARAMEDIC 2

Delivery framework performance indicators for non-commercial studies in Wales

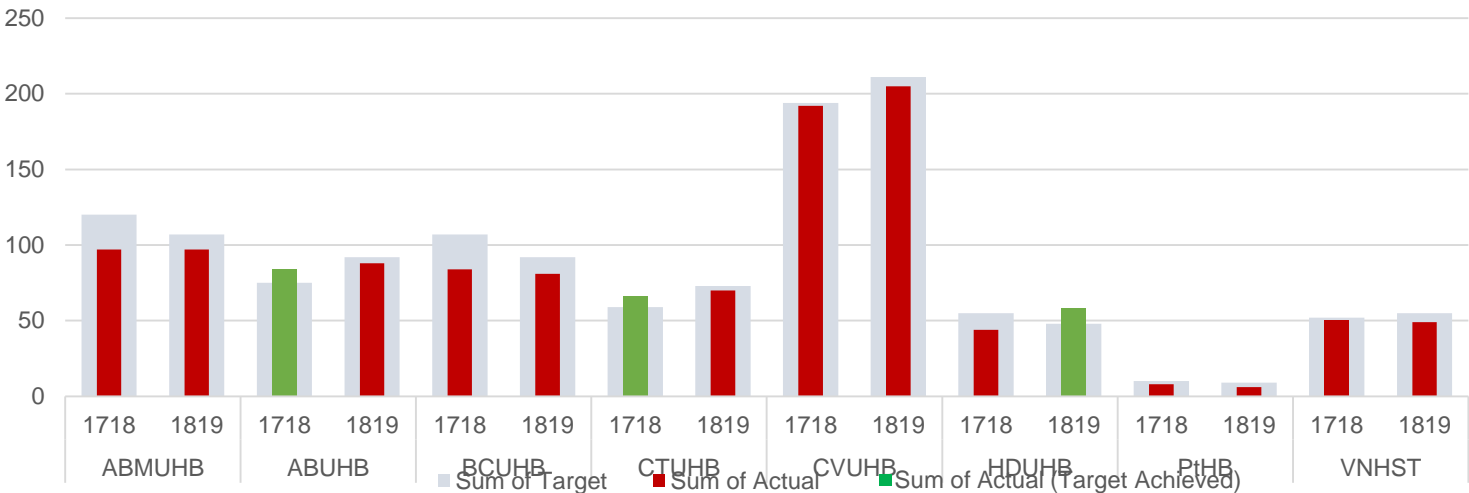
These charts show performance as an all Wales value and by NHS organisation for indicators C1 and D1.

The grey bars show the target, red bars show actual number where target not met, and green bars show that the target has been met or exceeded.

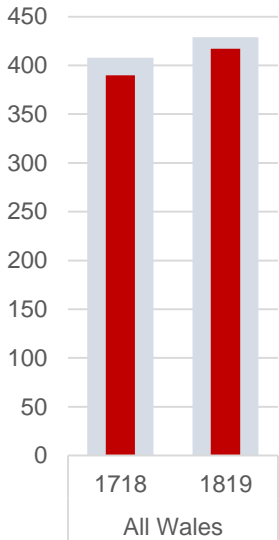
Note: The indicators are defined:

- C1:** Number of studies on the Health and Care Research Wales Portfolio (10% increase p.a.).
- D1:** Number of participants recruited into Health and Care Research Wales Portfolio studies (10% increase p.a.).

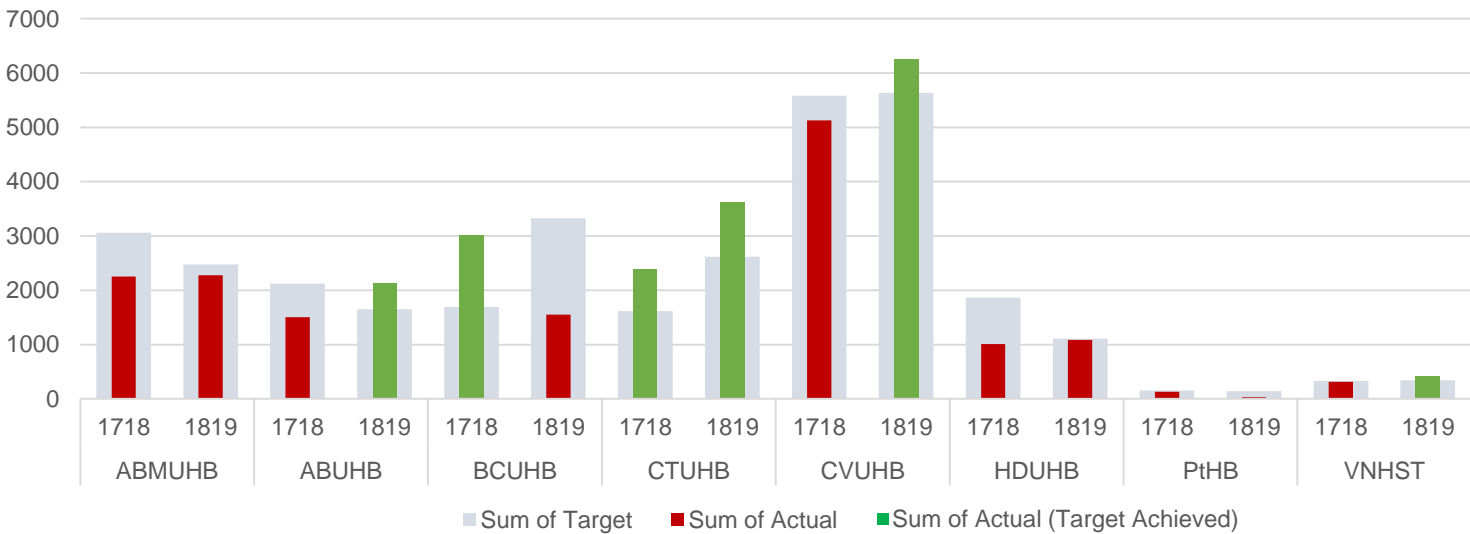
Non-commercial C1 Performance 17/18 - 18/19



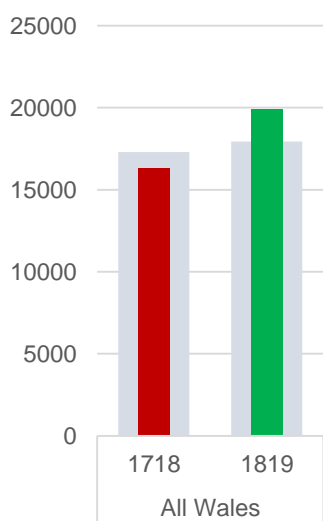
All Wales



Non-commercial D1 Performance 17/18 - 18/19



All Wales



Delivery framework performance indicators (C2 & D2) for commercial studies in Wales

These charts show performance as an all Wales value and by NHS organisation for indicators C2 and D2.

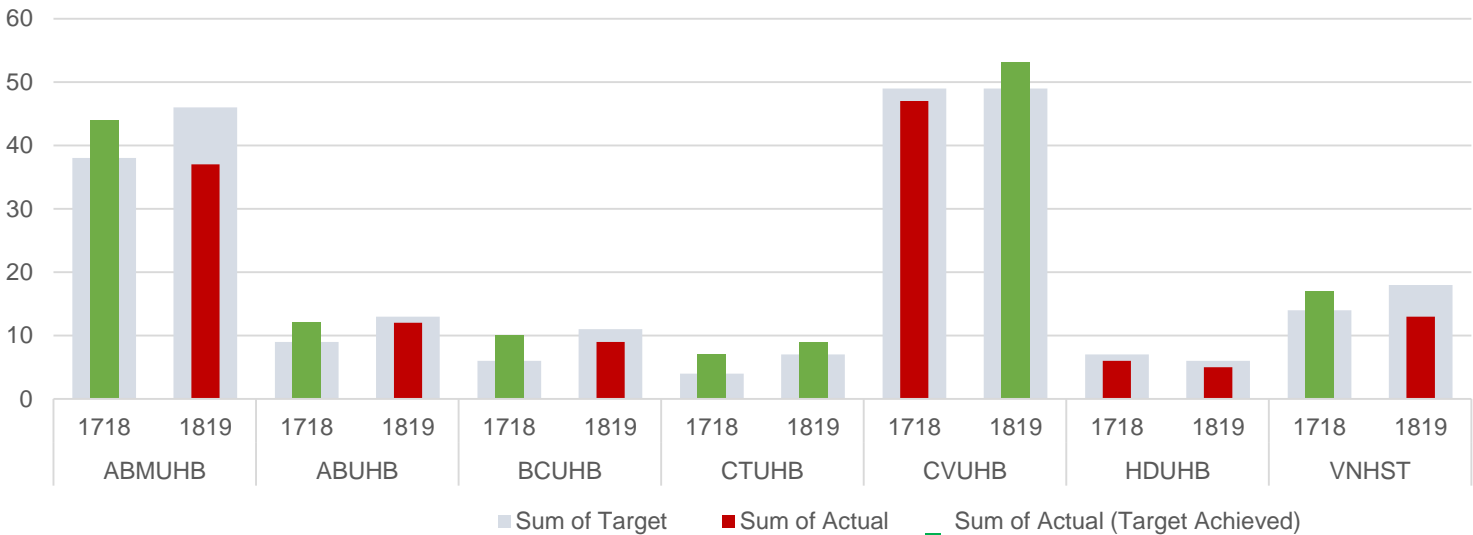
The grey bars show the target, red bars show actual number where target not met, and green bars show that the target has been met or exceeded.

Note: The indicators are defined:

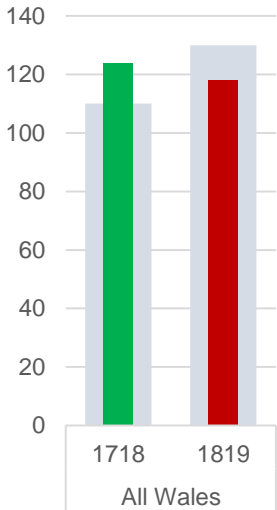
- C2:** Number of commercially sponsored studies (5% increase p.a.).
- D2:** Number of participants recruited into commercially sponsored studies (5% increase p.a.).

Source:

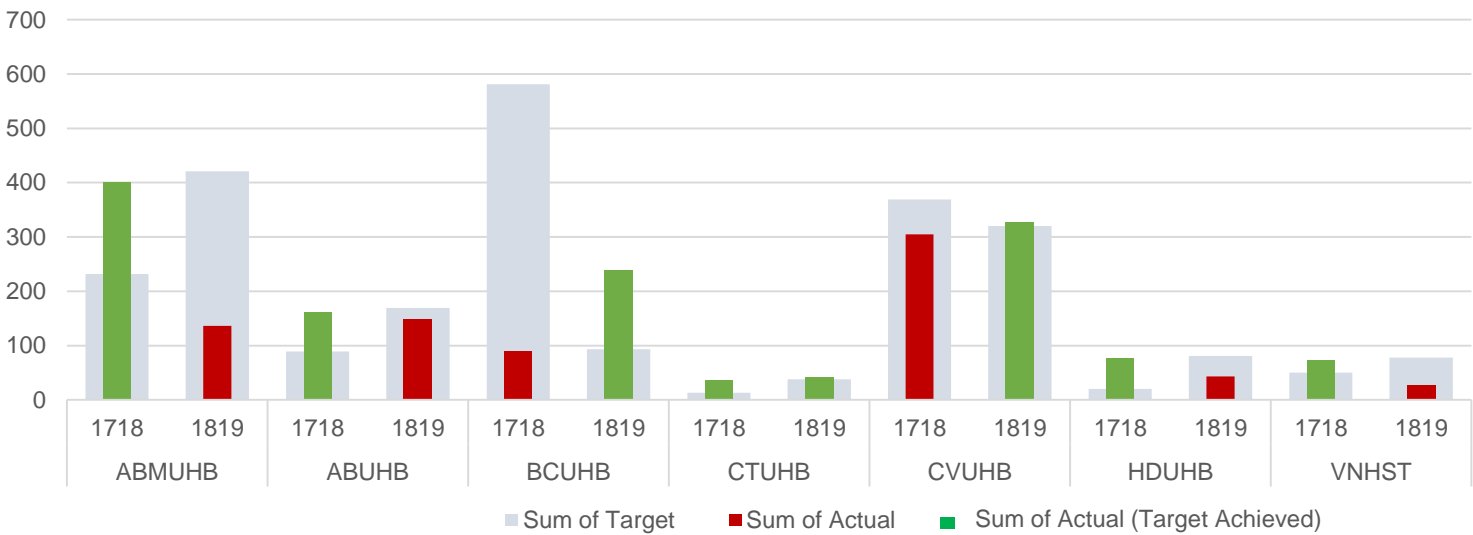
Commercial C2 Performance - 17/18 - 18/19



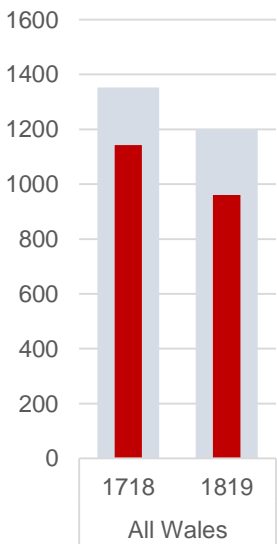
All Wales



Commercial D2 Performance 17/18 - 18/19



All Wales



61% of open non-commercial study-sites recruiting to target in 2018/19

48% of closed non-commercial study-sites met their target

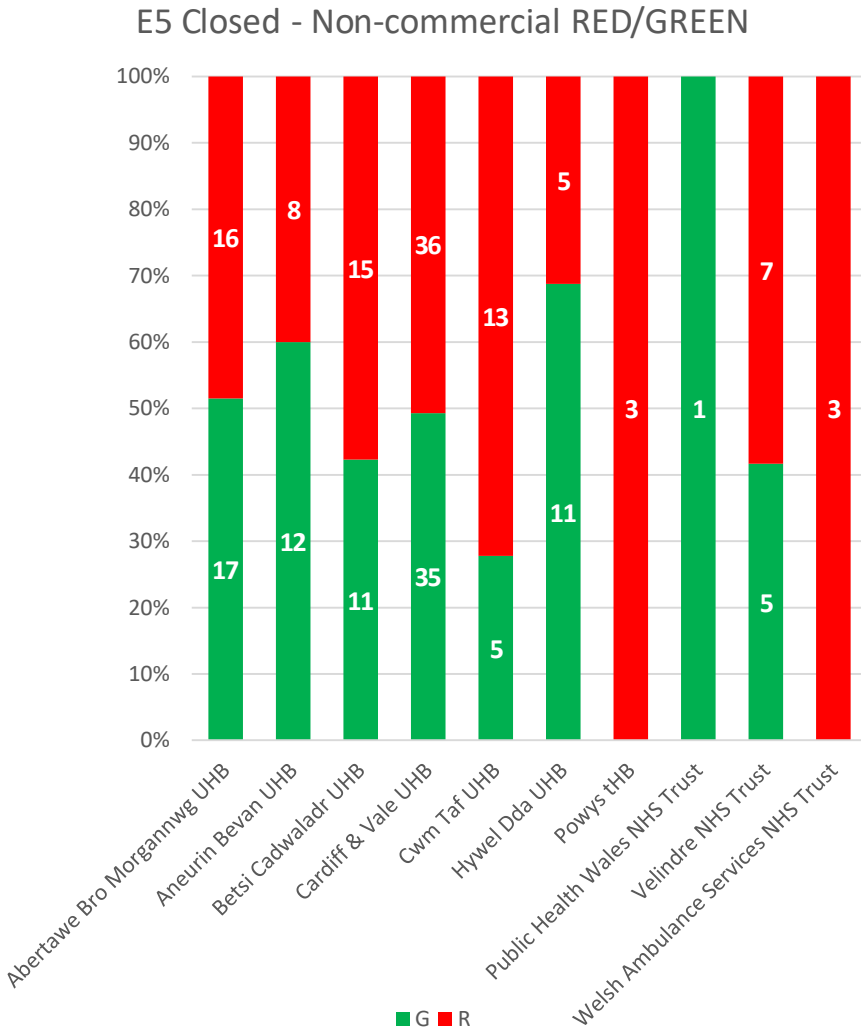
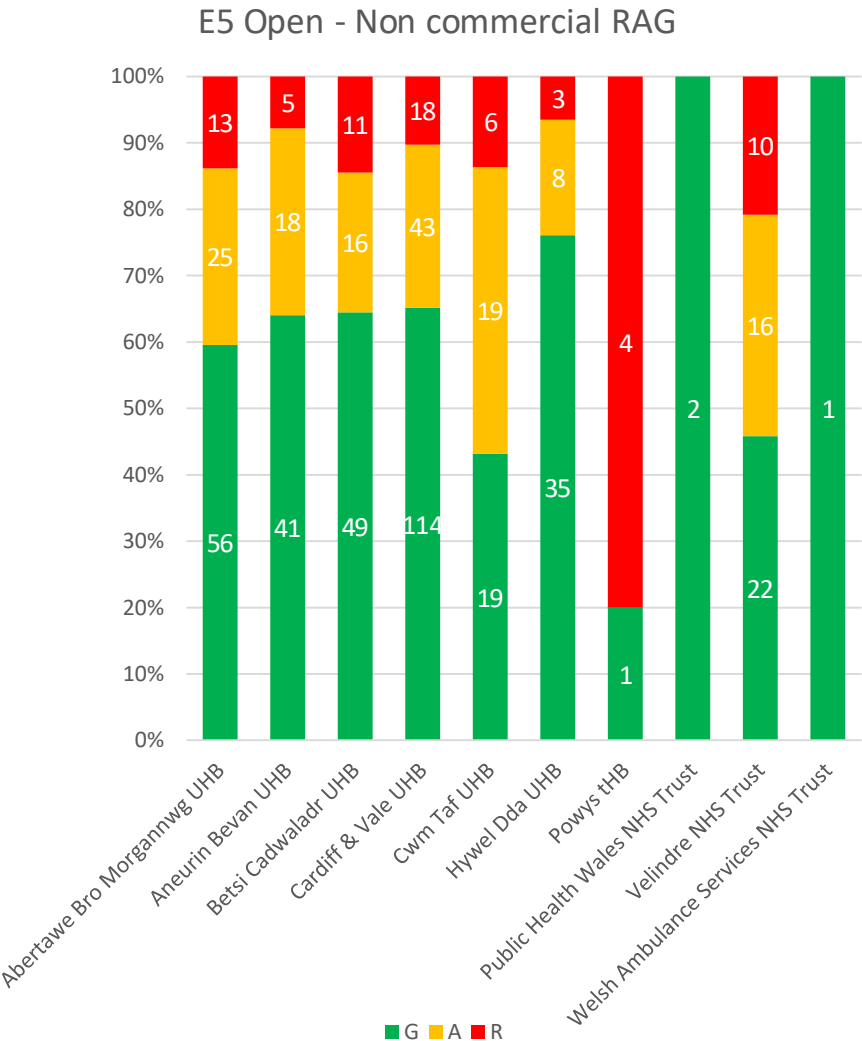
Delivery framework performance indicators (E5) for non-commercial studies in Wales

These charts show performance by NHS organisation for indicator E5.

Note: The indicator is defined:

- **E5:** Percentage of Health and Care Research Wales portfolio studies recruiting to target (100% of studies).

Source: 2018/19 Performance Report



56% of open commercial study-sites recruiting to target in 2018/19

44% of closed commercial study-sites met their target

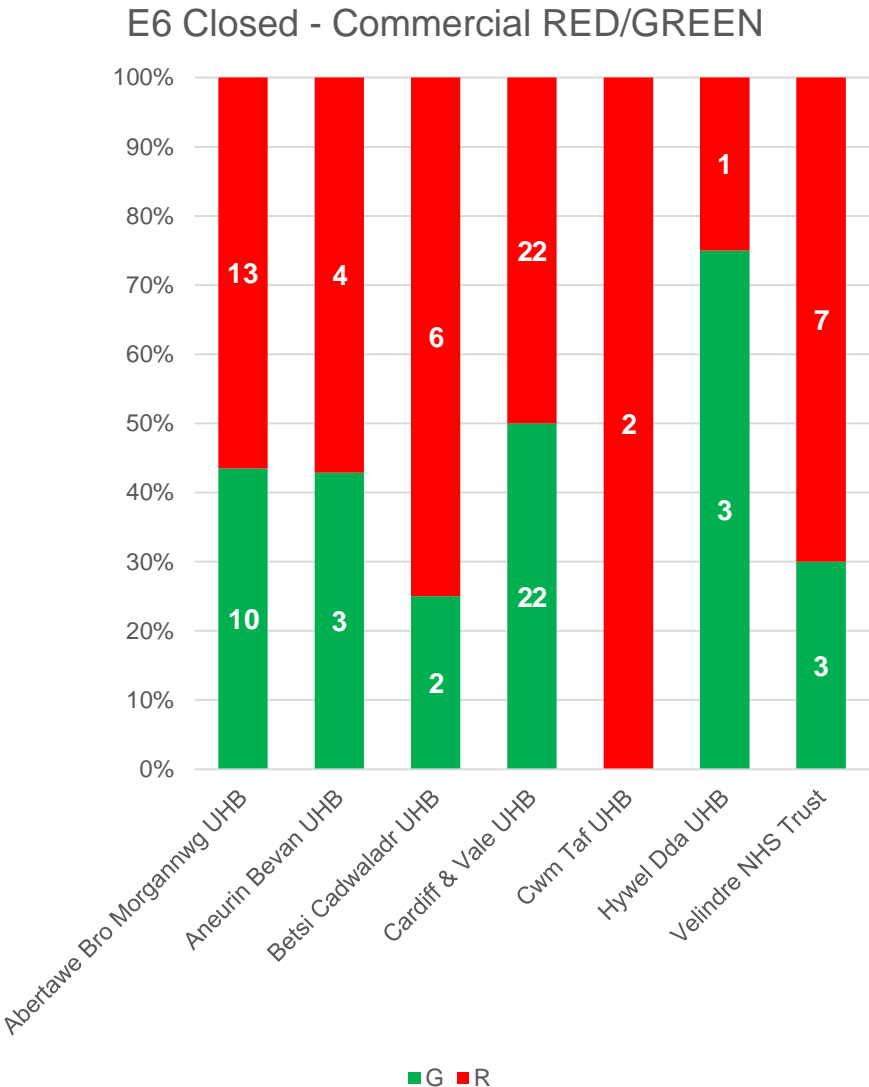
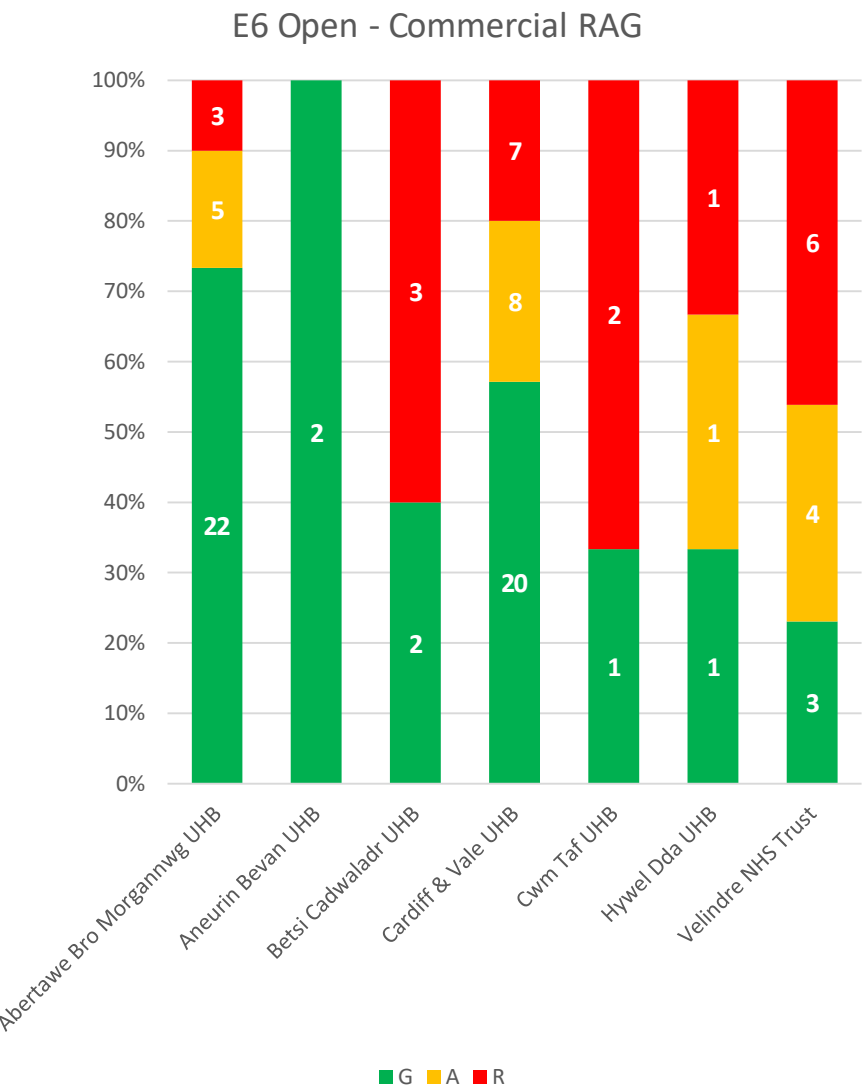
Delivery framework performance indicators (E6) for commercial studies in Wales

These charts show performance by NHS organisation for indicator E6.

Note: The indicator is defined:

- **E6:** Percentage of commercially sponsored recruiting to target (100% of studies).

Source: 2018/19 Performance Report



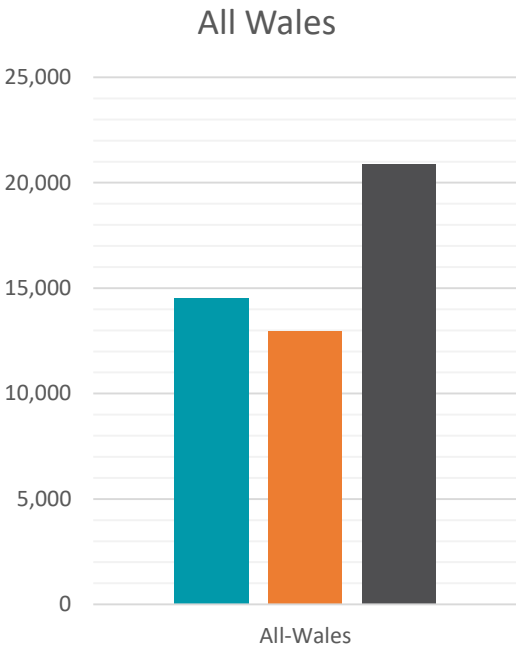
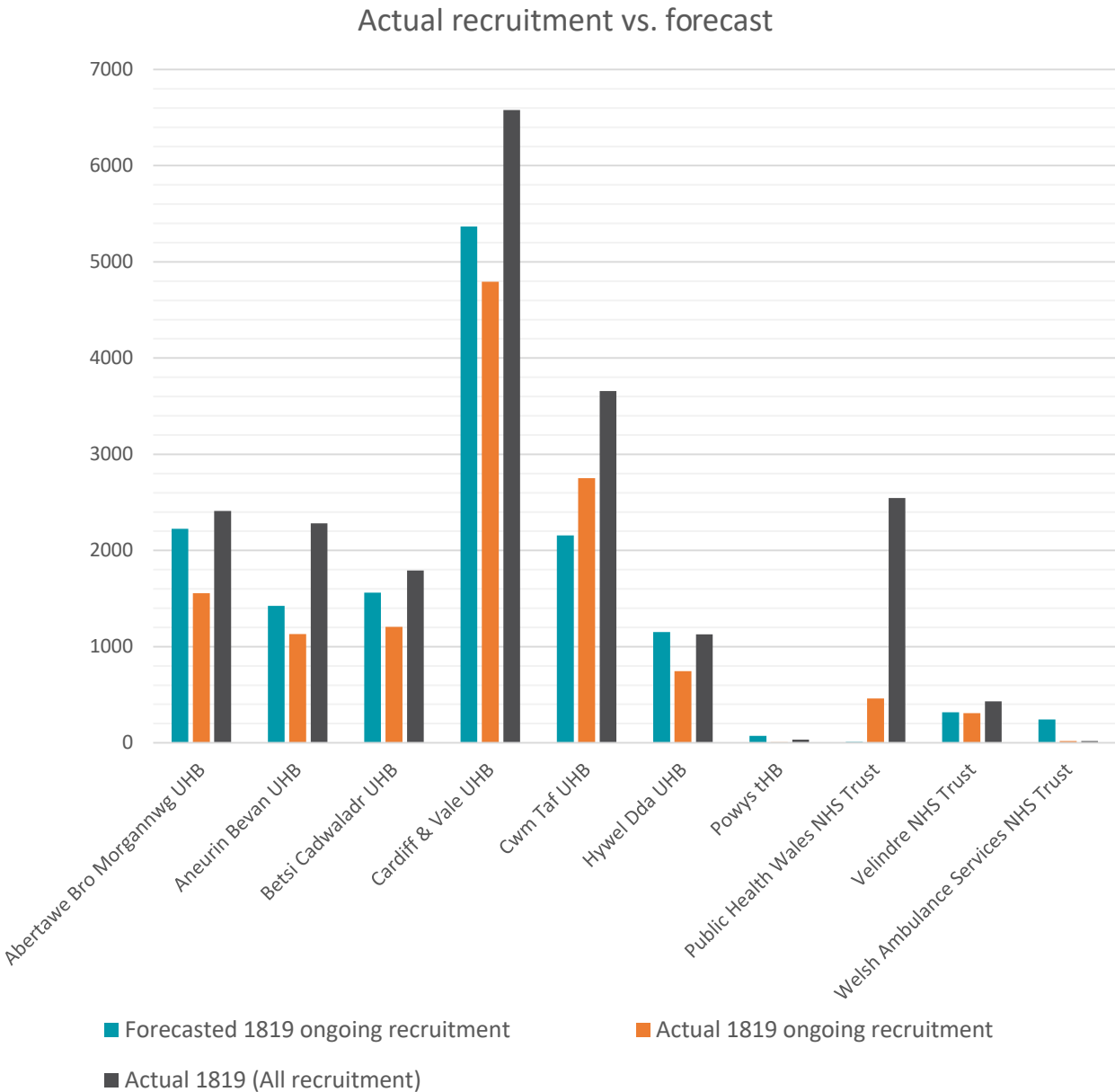
All Wales activity forecast and actual values for 2018/19 – non-commercial & commercial

This chart shows the all Wales recruitment activity forecast and actual recruitment activity values for financial year 2018/19.

This demonstrates that for most organisations, the actual recruitment exceeded the predicted recruitment, but only after including activity from newly opened studies.

Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2017/18 and 2018/19 performance reports



Notes

- **Forecasted 1819 ongoing recruitment** was the predicted 2018/19 recruitment to studies open at the end of 2017/18 based on the rate of recruitment at the time
- **Actual 1819 ongoing recruitment** is the actual recruitment in 2018/19 to these studies that were open at the end of 2017/18
- **Actual 1819 (All Recruitment)** is the total recruitment in 2018/19, including both ongoing studies and those that were newly opened in 2018/19.

All Wales activity forecast for 2019/20

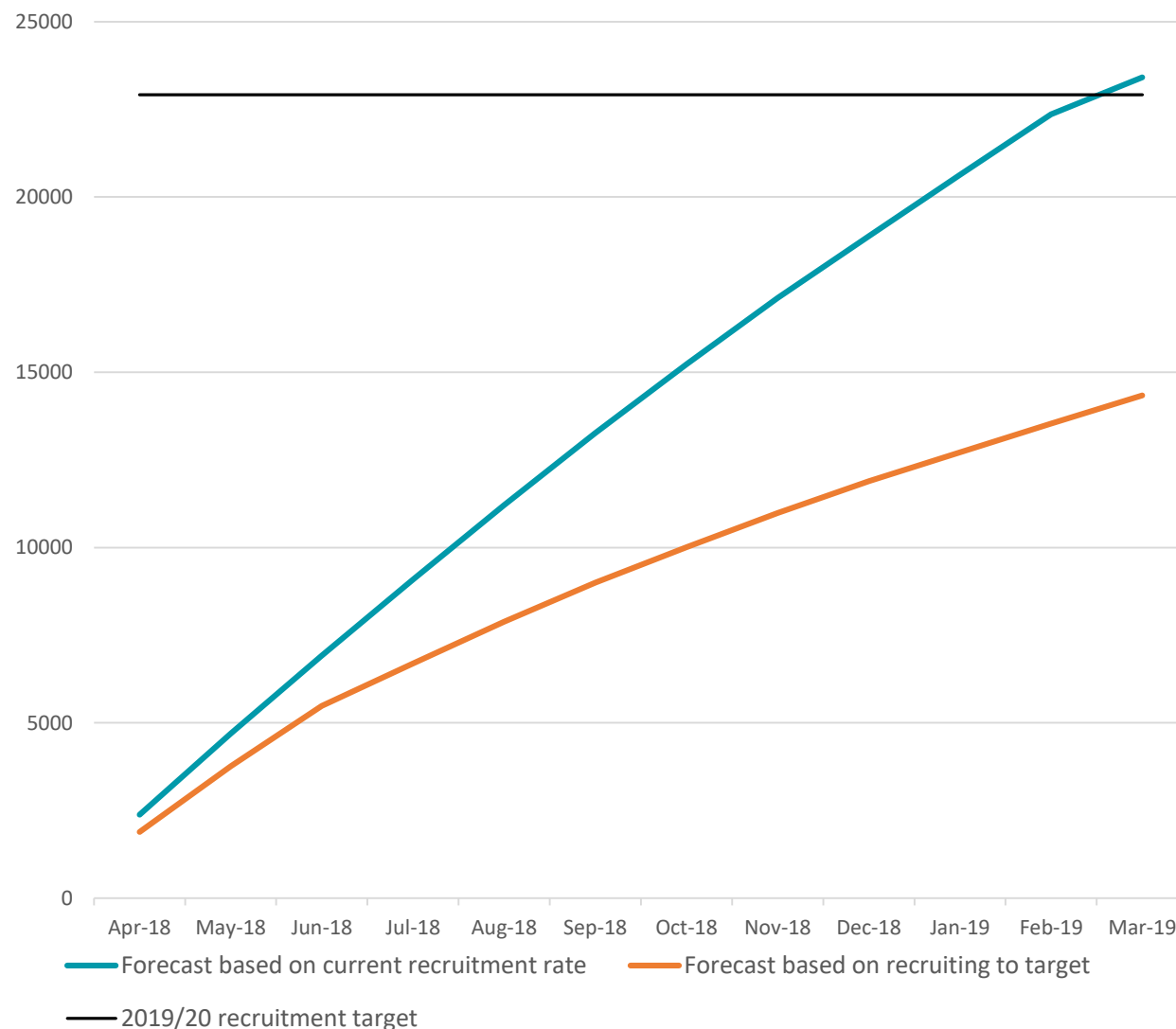
This chart shows the all Wales recruitment activity forecast for financial year 2019/20.

This demonstrates that if all organisations continue to recruit at the current recruitment rate, the target will be met. However, recruiting to the current combined target will not achieve the required target for 2019/20

Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2018/19 performance report, non-commercial & commercial

Forecast All-Wales Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Notes

- **Forecast based on current recruitment rate** looks at the rate of recruitment for each study at the HB so far and assumes that the HB will continue recruiting at this rate until the study closes. This excludes 9 studies where the opening date was missing.

- **Forecast based on recruiting to target** looks at how much more recruitment is needed to fulfil the site target and assumes that the HB will recruit at this rate until either the study closes or the target has been met. This excludes 8 records where the anticipated closure date was blank.

- **2019/20 recruitment target** was determined by adding 10% to the non-commercial recruitment and 5% to the commercial recruitment for 2018/19 then adding them together.

NHS organisation activity forecast 2019/20

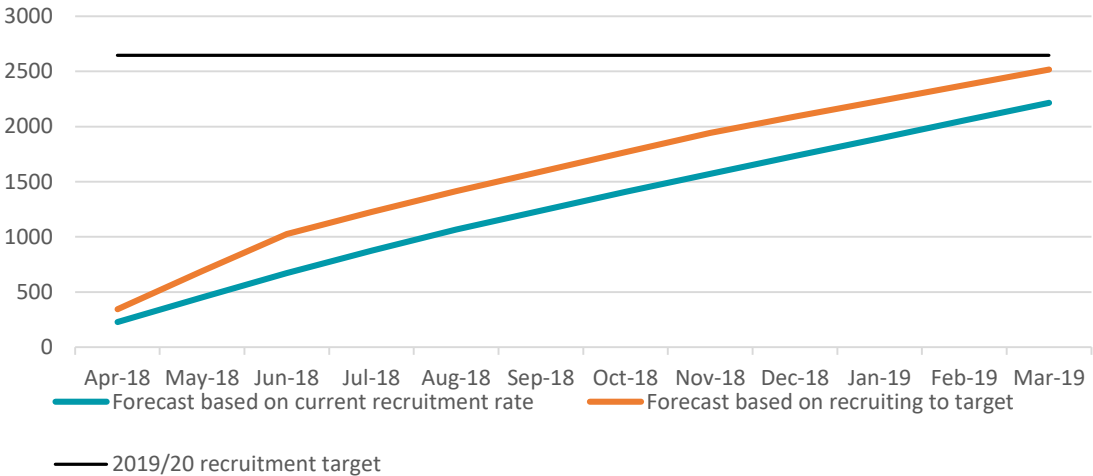
These charts show the NHS organisation recruitment activity forecast for financial year 2019/20 of:

- Abertawe Bro Morgannwg UHB
- Aneurin Bevan UHB

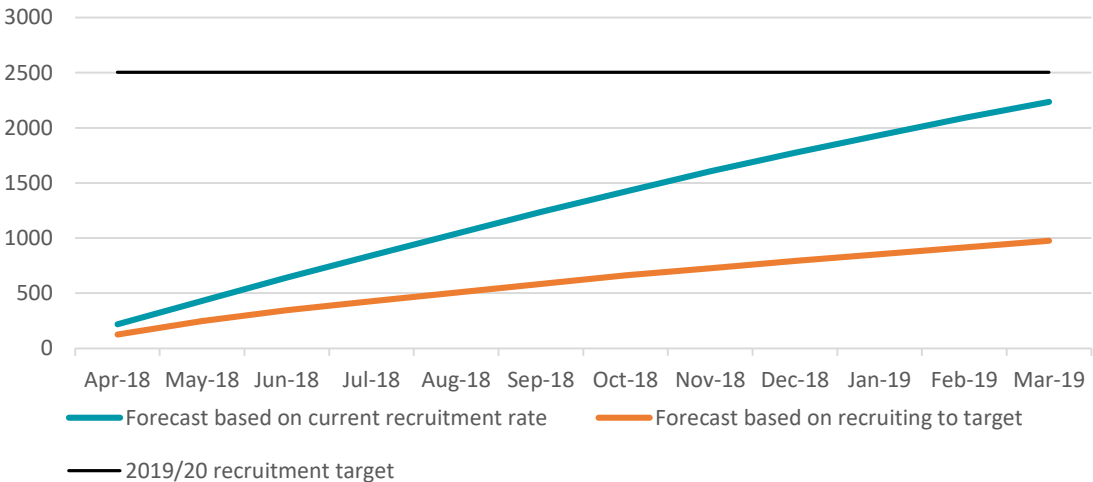
Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2018/19 performance report, non-commercial & commercial

Forecast ABMU Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Forecast AB Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Notes

- **Forecast based on current recruitment rate** looks at the rate of recruitment for each study at the HB so far and assumes that the HB will continue recruiting at this rate until the study closes. This excludes 9 studies where the opening date was missing.

- **Forecast based on recruiting to target** looks at how much more recruitment is needed to fulfil the site target and assumes that the HB will recruit at this rate until either the study closes or the target has been met. This excludes 8 records where the anticipated closure date was blank.

- **2019/20 recruitment target** was determined by adding 10% to the non-commercial recruitment and 5% to the commercial recruitment for 2018/19 then adding them together.



NHS organisation activity forecast 2019/20

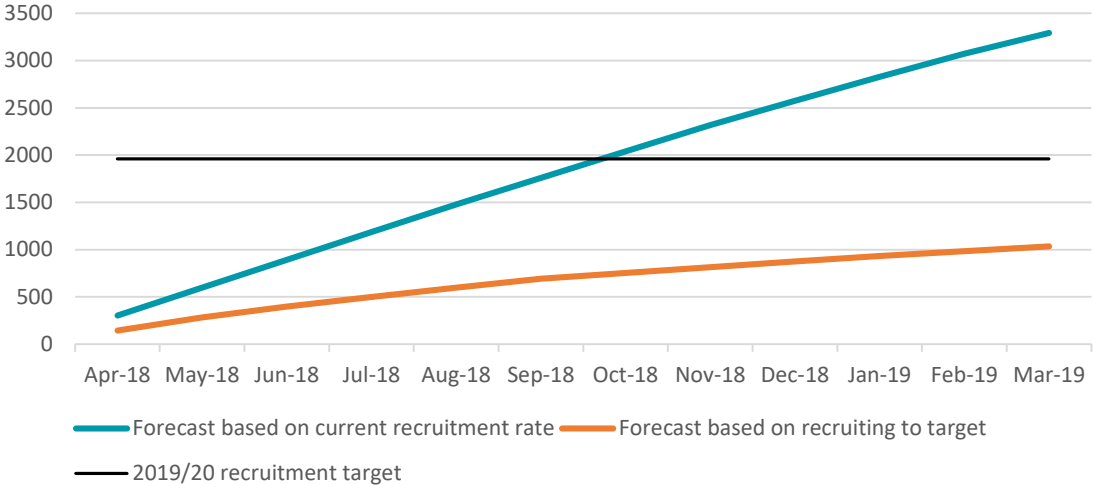
These charts show the NHS organisation recruitment activity forecast for financial year 2019/20 of:

- Betsi Cadwaladr UHB
- Cardiff & Vale UHB

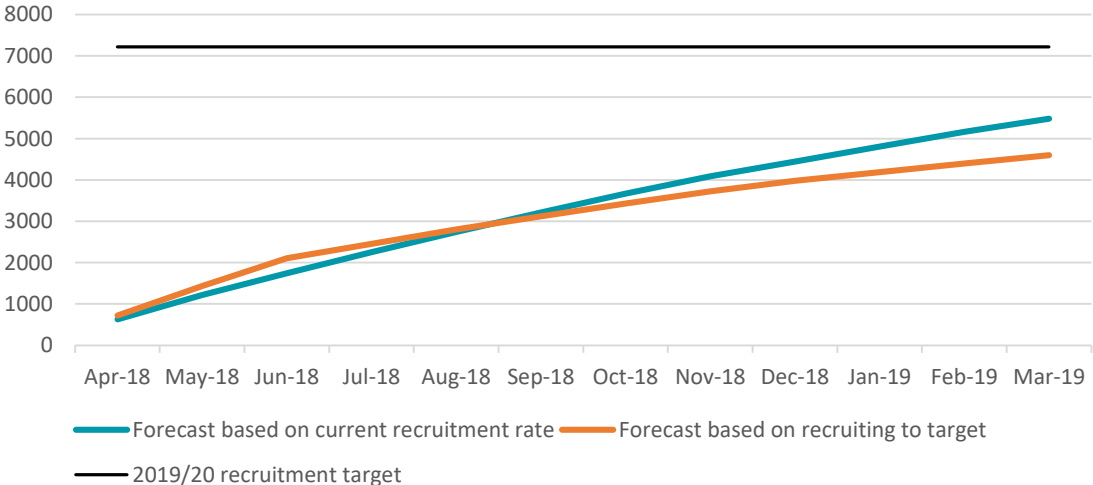
Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2018/19 performance report, non-commercial & commercial

Forecast BCU Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Forecast C&V Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Notes

- **Forecast based on current recruitment rate** looks at the rate of recruitment for each study at the HB so far and assumes that the HB will continue recruiting at this rate until the study closes. This excludes 9 studies where the opening date was missing.

- **Forecast based on recruiting to target** looks at how much more recruitment is needed to fulfil the site target and assumes that the HB will recruit at this rate until either the study closes or the target has been met. This excludes 8 records where the anticipated closure date was blank.

- **2019/20 recruitment target** was determined by adding 10% to the non-commercial recruitment and 5% to the commercial recruitment for 2018/19 then adding them together.



NHS organisation activity forecast 2019/20

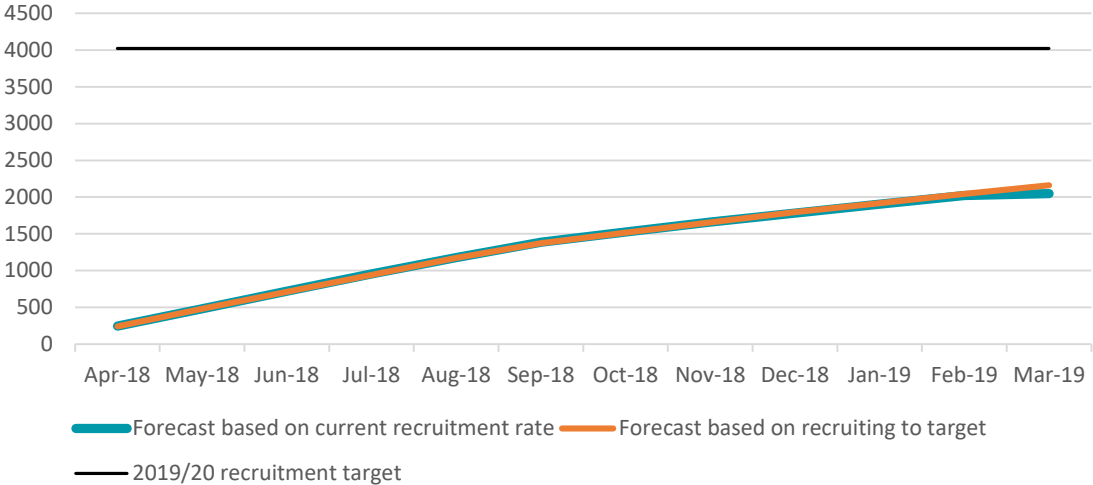
These charts show the NHS organisation recruitment activity forecast for financial year 2019/20 of:

- Cwm Taf UHB
- Hywel Dda UHB

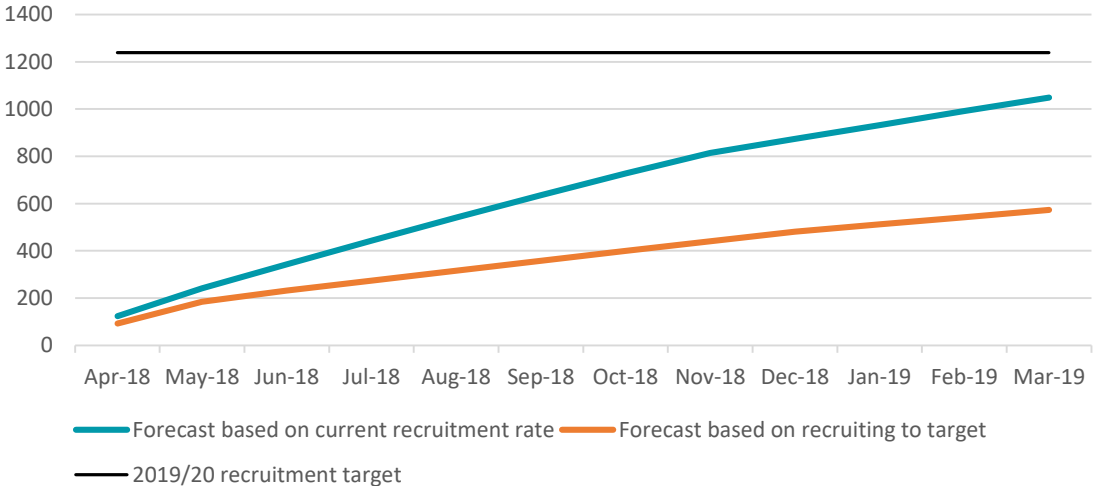
Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2018/19 performance report, non-commercial & commercial

Forecast CT Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Forecast HD Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Notes

- **Forecast based on current recruitment rate** looks at the rate of recruitment for each study at the HB so far and assumes that the HB will continue recruiting at this rate until the study closes. This excludes 9 studies where the opening date was missing.

- **Forecast based on recruiting to target** looks at how much more recruitment is needed to fulfil the site target and assumes that the HB will recruit at this rate until either the study closes or the target has been met. This excludes 8 records where the anticipated closure date was blank.

- **2019/20 recruitment target** was determined by adding 10% to the non-commercial recruitment and 5% to the commercial recruitment for 2018/19 then adding them together.

NHS organisation activity forecast 2019/20

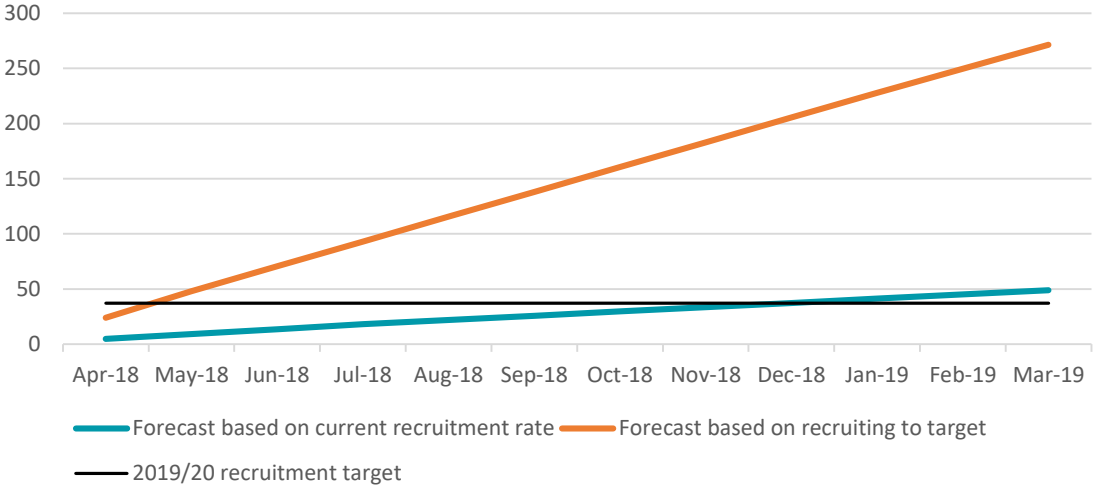
These charts show the NHS organisation recruitment activity forecast for financial year 2019/20 of:

- Powys THB
- Public Health NHS Trust

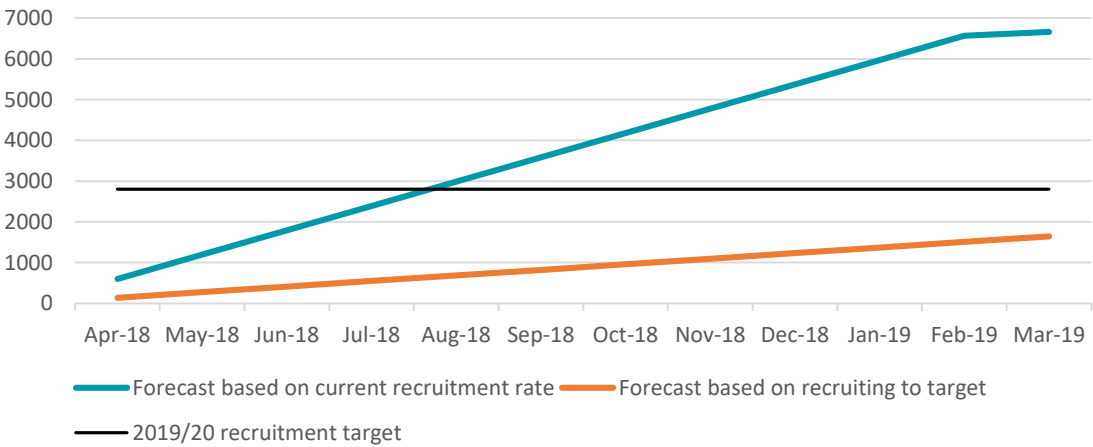
Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2018/19 performance report, non-commercial & commercial

Forecast PtHB Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Forecast PHW Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Notes

- **Forecast based on current recruitment rate** looks at the rate of recruitment for each study at the HB so far and assumes that the HB will continue recruiting at this rate until the study closes. This excludes 9 studies where the opening date was missing.

- **Forecast based on recruiting to target** looks at how much more recruitment is needed to fulfil the site target and assumes that the HB will recruit at this rate until either the study closes or the target has been met. This excludes 8 records where the anticipated closure date was blank.

- **2019/20 recruitment target** was determined by adding 10% to the non-commercial recruitment and 5% to the commercial recruitment for 2018/19 then adding them together.

NHS organisation activity forecast 2019/20

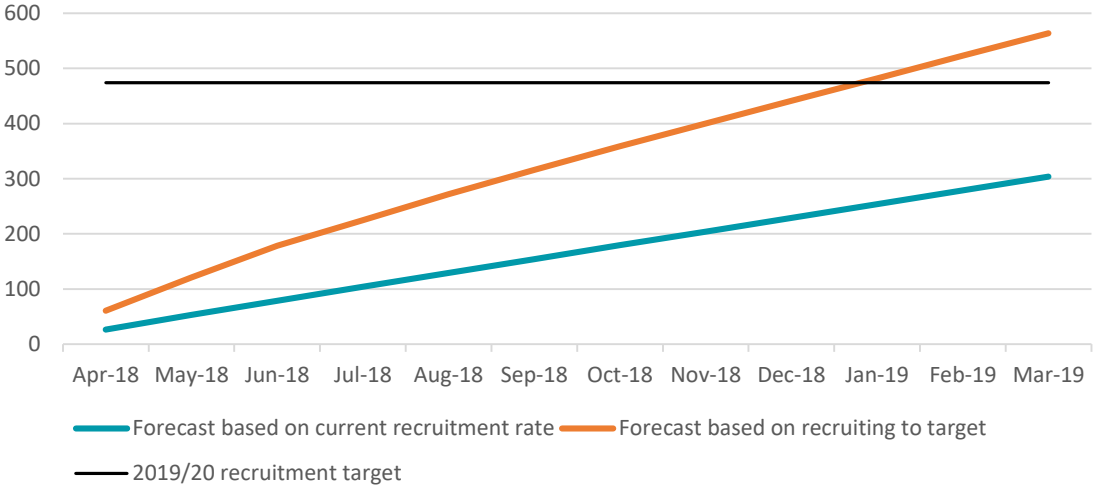
These charts show the NHS organisation recruitment activity forecast for financial year 2019/20 of:

- Velindre NHS Trust
- Welsh Ambulance Services NHS Trust

Note: The activity forecast is extrapolated from the actual values of the previous financial year.

Source: 2018/19 performance report, non-commercial & commercial

Forecast VEL Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



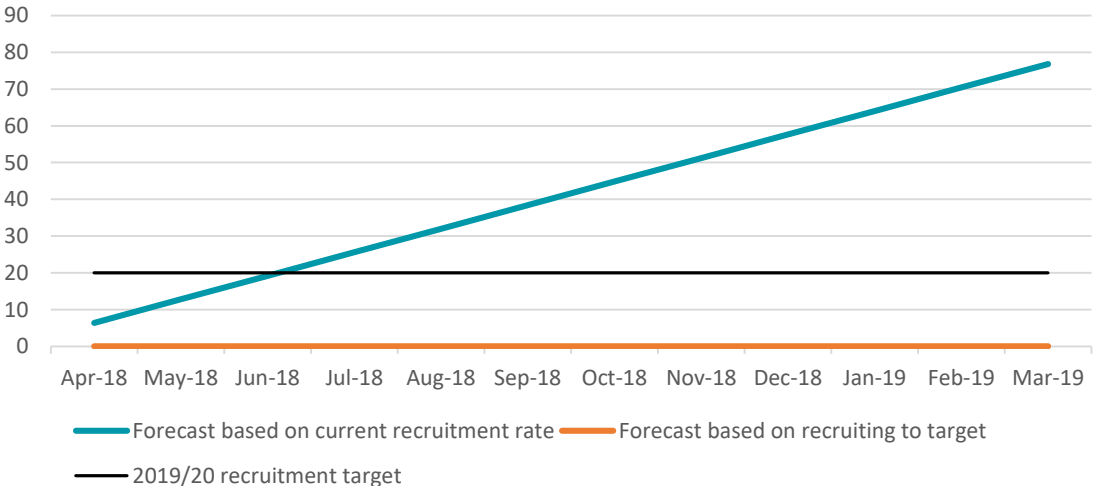
Notes

- **Forecast based on current recruitment rate** looks at the rate of recruitment for each study at the HB so far and assumes that the HB will continue recruiting at this rate until the study closes. This excludes 9 studies where the opening date was missing.

- **Forecast based on recruiting to target** looks at how much more recruitment is needed to fulfil the site target and assumes that the HB will recruit at this rate until either the study closes or the target has been met. This excludes 8 records where the anticipated closure date was blank.

- **2019/20 recruitment target** was determined by adding 10% to the non-commercial recruitment and 5% to the commercial recruitment for 2018/19 then adding them together.

Forecast WAST Recruitment for 2019/20 Based on Studies Open at the End of 2018/19



Anticipated study closure timelines of studies open during financial year by organisation

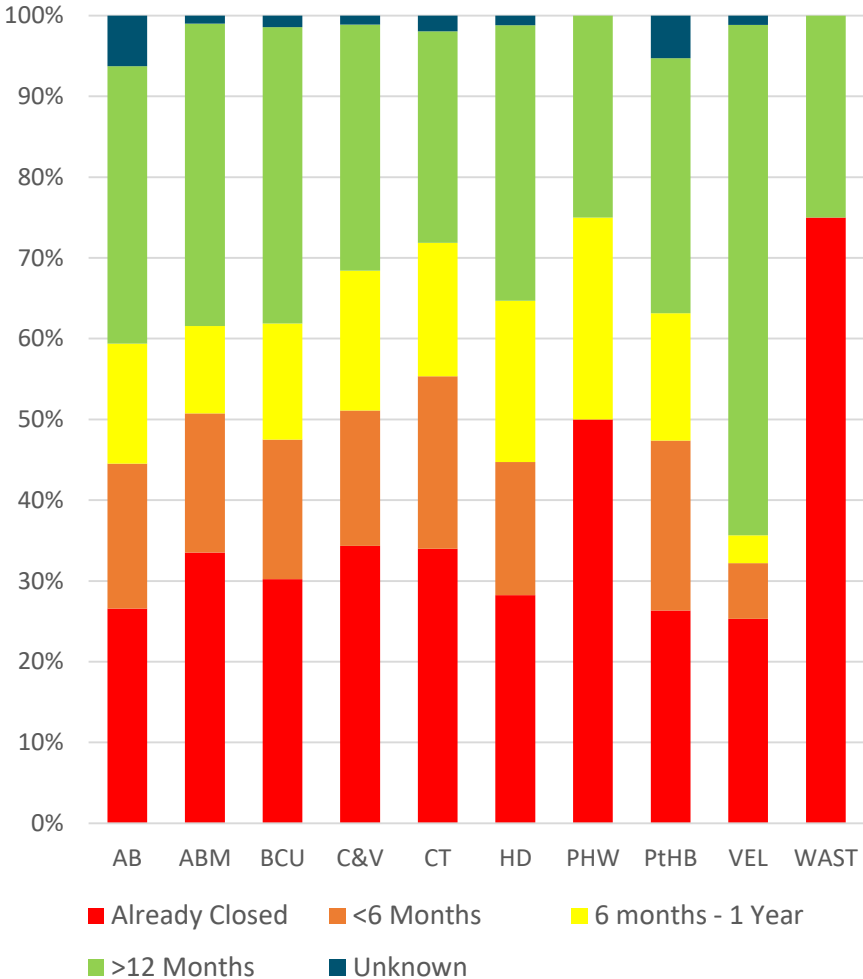
These charts show the anticipated study closure timelines of studies open during 2018/19 by organisation.

Note: The timeline is divided as:

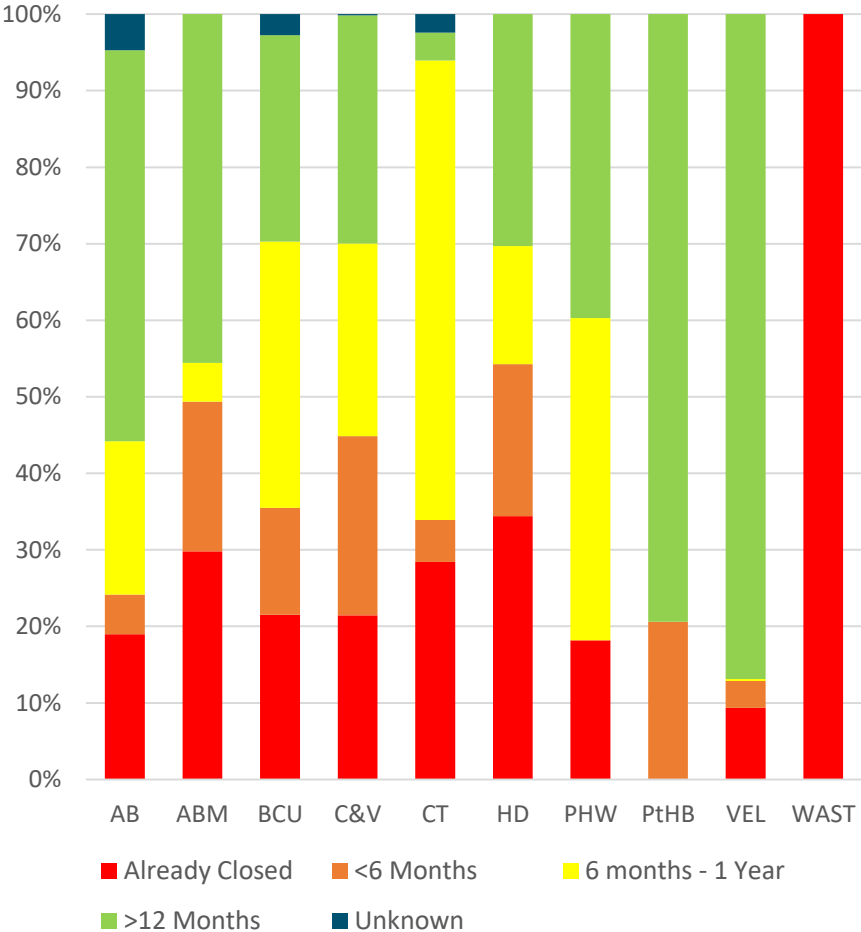
- Already closed
- Less than 6 months
- Between 6 months and 1 year
- Greater than a year
- Unknown

Source: 2018/19 performance report

2018/19 Studies Close Dates



2018/19 Studies Expected Close Dates, weighted by recruitment



Note:
The weighted by recruitment graph splits the recruitment in 2018/19 by the closure timelines of the recruiting studies. E.g. 87% of VEL recruitment was to studies that are expected to run for >12 months. 100% of WAST 18/19 recruitment was to studies that had closed by the end of 18/19.

Performance of studies anticipated to close in 2019/20 by organisation

This chart shows the performance rating of studies that are anticipated to close in 2019/20.

This shows that in general, over half of the studies due to close in 2019/20 are not currently on track to hit their recruitment target.

Note: Studies not marked green shows that these studies are not on track to achieve their agreed recruitment target.

Black studies are either primary care or have missing target data

Source: 2018/19 performance report

