

Statistical Article Erthygl Ystadegol

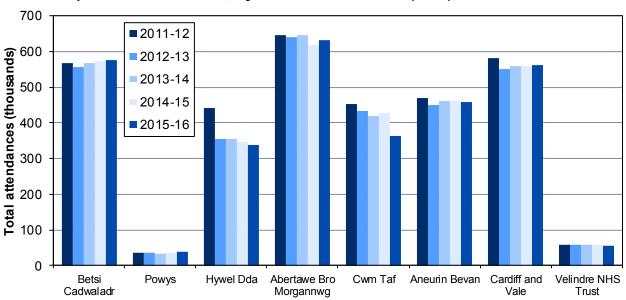


Outpatient Activity Minimum Dataset: update on data quality and summary results for 2015-16¹

Introduction

This Statistical Article builds on and provides an update to the previous <u>Statistical Article</u> ('Outpatient Activity Minimum Dataset: Publication of data and discussion of data quality'), published on 16 February 2016. The previous <u>article</u> provided an overview of the Outpatient Activity Minimum Dataset (OP MDS) (the source of official statistics for NHS outpatient activity from 2012-13 onwards), presented background information and commentary to assist in the interpretation of the data, and explored the differences between the OP MDS and the previous official data source used for outpatient activity, the QueSt 1 (QS1) return. It acted as an introduction to the data source. Please read this article in conjuncture with the previous <u>article</u> for a full picture of the quality of the data source.





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1 Notes on the use of statistical articles can be found at the end of this document.

Section 2: Key findings from the Outpatient Minimum Dataset, 2015-16

This section presents summary information from the OP MDS for 2015-16. The information and figures provided are based on activity undertaken at hospital sites in Wales. As such, it includes activity delivered by English organisations in Welsh hospitals and excludes activity carried out in England.

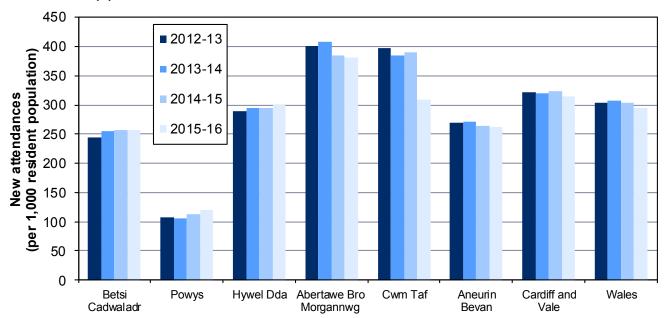
Charts are presented as rates per 1,000 resident population to ensure that the analysis of the data reflects actual differences between the LHBs' outpatients activity and not the difference in the population between LHBs. Rates per population have been calculated using the <u>mid-year population estimates from 2011 to 2015</u>, published by the <u>Office for National Statistics (ONS)</u>.

Summary for 2015-16

- There were 912,817 new outpatient attendances in Wales, a decrease of 26,069 from 938,886 in 2014-15. This decrease is driven by a change in recording within Cwm Taf, which is explained in more detail in Section 3.
- There were 3,026,324 total outpatient attendances in Wales, a decrease of 53,708 from 3,080,032 in 2014-15. This decrease is driven by a change in recording within Cwm Taf, which is explained in more detail in Section 3.
- The treatment function codes accounting for the largest number of new attendances in Wales were: trauma & orthopaedic, general surgery, ophthalmology, ear, nose & throat and gynaecology.
- The treatment function codes accounting for the largest number of total attendances in Wales were: trauma & orthopaedic, ophthalmology, general surgery, dermatology and ENT.
- The ratio of follow-up to new outpatient attendances in Wales was 2.2.
- The percentage of appointments where the outpatient did not attend (DNA) in Wales was 7.7 per cent.

Attendances

Chart 2: Rate of new outpatient attendances per 1,000 resident population, by LHB, 2012-13 to 2015-16 (a)



(a) Velindre NHS Trust is not shown in the chart as it does not cover a specific geography, and does not have a corresponding population as the LHBs do. It is included in the Wales figures.

In 2015-16, there were 912,817 new attendances (295 per 1,000 resident population). This is 26,069 fewer than the previous year, a decrease of approximately 9 per 1,000 resident population.

There is some variation between LHBs in the rates of new attendances per 1,000 resident population. Abertawe Bro Morgannwg had the highest rate (381), whilst Powys had the lowest rate (120) in 2015-16. This may be due to a large proportion of Powys' residents attending outpatient clinics in English hospitals.

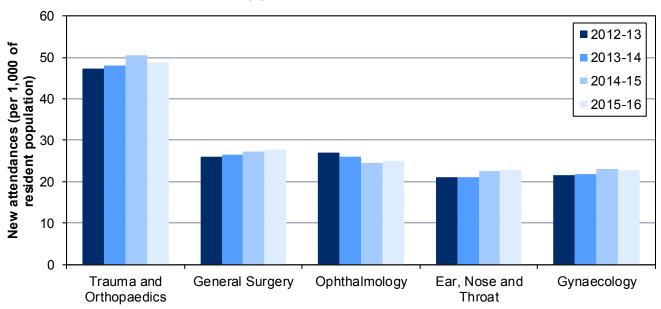
In 4 out of 7 health boards, there was a decrease between 2014-15 and 2015-16 in the rates of new attendances per 1,000 population. Cwm Taf had the largest decrease (82) whilst Powys had the largest increase (7). The drop in Cwm Taf is mainly due to a change in the data they submit to bring them in-line with national reporting standards, which is explained in more detail in <u>Section 3</u>.

Since 2012-13, when the OP MDS became the official source for outpatient data, the rate of new attendances per 1,000 population has decreased by 9.

Treatment Function Code

For further information on treatment function codes please see the Annex.

Chart 3: Rate of new outpatient attendances per 1,000 resident population, by treatment function code, 2012-13 to 2015-16 (a)



Source: OP MDS, NHS Wales Informatics Service

(a) Only the 5 largest treatment function codes in 2015-16 in terms of new attendances are displayed

Chart 3 displays the rate of new attendances per 1,000 resident population for the five treatment function codes accounting for the largest number of new attendances across Wales, based on the 2015-16 data.

In 2015-16 across Wales, the treatment function codes accounting for the largest number of new attendances were: trauma & orthopaedic, general surgery, ophthalmology, ear, nose and throat (ENT) and gynaecology. These five treatment function codes accounted for 50 per cent (147) of the 295 new attendances per 1,000 of resident population.

Trauma & orthopaedic had the highest rate of new attendances at around 49 new attendances per 1,000 population. It had approximately 75 per cent more attendances than the rate of the next treatment code (general surgery, 28 per 1,000 population). Between 2014-15 and 2015-16, trauma & orthopaedic has decreased by approximately 2 new attendances per 1,000 population. Since 2012-13, trauma & orthopaedic has had the largest number of new attendances at around 150,000 per year (49 per 1,000 resident population per year).

Outside of the top five, each of the remaining treatment function codes had fewer than 20 new attendances per 1,000 population.

2.0

0.0

Betsi

Cadwaladr

Powys

12.0 10.0 10.0 2013-14 2014-15 2015-16

Chart 4: Ratio of follow-up to new attendances by LHB/NHS Trust, 2012-13 to 2015-16

Source: OP MDS, NHS Wales Informatics Service

Velindre

NHS Trust

Wales

Cardiff and

Vale

In 2015-16 across Wales, the ratio of follow-up to new outpatient attendances was 2.2 and has remained constant over the last 4 years, at 2.2.

Abertawe

Bro

Morgannwg

Cwm Taf

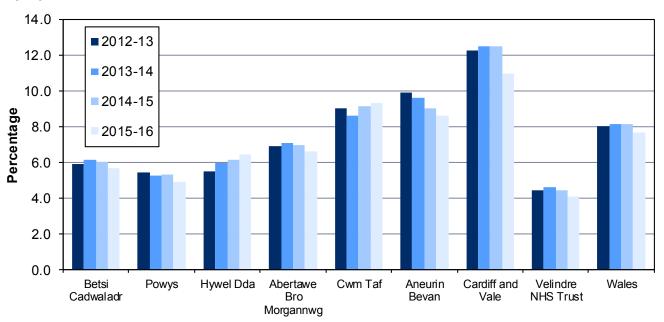
Aneurin

Bevan

Hywel Dda

Velindre had a far higher ratio of follow-up to new attendances than the LHBs, with a ratio of 9.6 in 2015-16 and an average ratio of around 9.8 over the last 4 years. The health boards generally had ratios between 1 and 3 over the past 4 years. In 2015-16, Cwm Taf had the highest (3.0) and Powys had the lowest (1.4). In each year since 2012-13 Cwm Taf had the highest ratio and Cardiff & Vale the second highest.

Chart 5: Percentage of total appointments where the outpatient did not attend, 2012-13 to 2015-16



Source: OP MDS, NHS Wales Informatics Service

Across wales in 2015-16, the percentage of appointments where the outpatient DNA was 7.7 per cent, a decrease of 0.5 percentage points from 8.1 in 2014-15.

In 2015-16, Cardiff and Vale had the highest (11.0 per cent) and Velindre had the lowest (4.1 per cent) percentage of appointments where the outpatient DNA. Cardiff and Vale had the largest decrease in the DNA from 2014-15, 1.5 percentage points. This reduction in Cardiff and Vale's DNA from 12.5 to 11.0 per cent is due to the uptake of a new appointment booking system and is not a data quality issue. Please see further information regarding the reduction in Cardiff and Vale's DNA in Section 3. The largest increase since last year in the percentage of appointments where the outpatient DNA was seen in Hywel Dda, 0.3 percentage points.

Across Wales, the percentage of appointments where the outpatient DNA remained fairly stable from 2012-13 to 2014-15. However in 2015-16, this decreased to 7.7. This was mainly due to the reduction in Cardiff and Vale, which accounted for 45 per cent of the decrease in DNAs between 2014-15 and 2015-16.

Section 3: Update to quality information

This section supplements and updates the previous <u>article</u>'s Quality information section. There are no updates to the quality dimensions Relevance, Accessibility and clarity and Coherence; Thus please refer to the previously published <u>Statistical Article</u>, published on 16 February 2016 for information regarding these dimensions.

Accuracy and reliability

Invalid site and treatment function codes

Although the outpatient data is subject to Validation at Source Service (VASS), as mentioned in the previous article's 'Data coverage and processing cycle' section, there is data recorded against closed hospital sites present in 2014-15 and 2015-16. For instance, in 2014-15 and 2015-16, this data accounted for 0.2 per cent of the total attendances submitted in both years. Betsi Cadwaladr submitted the most data against closed sites, submitting 5,297 total attendances against four closed hospital sites (648 of these were new attendances) in 2015-16; 5,068 (634 new attendances) in 2014-15. Betsi Cadwaladr also submitted a further 990 attendances in 2014-15 and 1,183 in 2015-16 against an invalid code listed as '7A1'. LHBs are informed automatically when they submit against site codes that are not active and NWIS monitor the validity of data on a monthly basis alerting LHBs if the validity falls below 98 per cent. The validity of the site code of treatment has always been above this threshold. At Welsh Government we treat these site codes as invalid and data recorded against them is only included within their respective LHB total. This is a small proportion of the number of outpatient records submitted.

In cases where the site code of treatment was blank the records were excluded from the extract provided to Welsh Government and are not published.

Invalid treatment function codes were also identified within the data, which relates to 1,392 total attendances in 2014-15 and 2,295 in 2015-16. Of which, 64 in 2014-15 and 997 in 2015-16 were due to some health boards implemented new treatment function codes before the mandated date (1 April 2016). This data is not published against a treatment function but is included in the 'All Treatment Function' total.

Cardiff and Vale did not attend (DNA) figures

Cardiff and Vale's did not attend figures have decreased to a large extent in 2015-16. The percentage decrease for new DNA was 24.1 per cent (5,282) and for total DNA 13.2 per cent (10,533). Cardiff and Vale explained the main factor behind this decrease as the introduction of a Fully Automated Booking (FAB) system, which contributed to the vast majority of this improvement. FAB works by:

- automatically generating appointments with around 5 weeks notice
- sending up to two reminder letters giving patients more opportunity to confirm, rebook or cancel
- delivering a telephone call reminder service 10 days out from the patient's appointment (also provided to follow-up appointments, if the specialty is in the FAB model)
- automatically cancelling appointments if patients have not made contact within 7 days of their appointment (every effort is made to refill slots).

Timeliness and punctuality

There were only two late submissions in 2014-15 which equates to 1.1 per cent of total outpatient submissions received. Adding to this there was only one late submission in 2015-16, which equates to 0.6 per cent of submissions received. These files were submitted in the following month and met the annual deadline for resubmissions (20 June). This does not affect the data that Welsh Government publish as the extract we received was post these resubmissions.

Comparability

This section updates users on the data quality issues that affected comparability between health boards. An update is provided for Betsi Cadwaladr, Cardiff and Vale, Cwm Taf and Aneurin Bevan University health boards.

There is less variation between health boards in terms of what is included in the submission than stated in the previous <u>article</u>. There is less variation in the independent nurse led activity than previously reported. Cwm Taf no longer has more independent nurse led activity than all the other organisations in Wales combined. However, the published data combines the nurse and consultant led data. For further information regarding comparability, please see the previous <u>article</u>'s comparability subsection.

Betsi Cadwaladr University (BCU) Health Board

Along with BCU East, BCU West is now also submitting midwifery led activity. This means that BCU East and West are both submitting consultant and midwifery led activity, whereas BCU Central submit consultant and independent nurse led activity only. Although BCU West are now also submitting midwifeled activity, the total midwife-led for BCU is still less than most other LHBs. BCU Central are submitting negligible amounts of the activity.

Cardiff and Vale University Health Board

The issues listed in the previous <u>article</u> with Cardiff and Vale's OP MDS submission are still in the process of being addressed by the health board. We have also been made aware that Cardiff and Vale are including Non Clinic Attendance (NCA) activity in their data from 2015-16 onwards, where previously they did not. The LHB estimate that this NCA activity relates to around 700 attendances per month.

Cwm Taf University Health Board

Analysis shows that that the decrease between 2014-15 and 2015-16 in all measures at Cwm Taf is due to Cwm Taf ceasing to record data under the Nursing treatment function code and recording less under General Medicine, which is related to Cwm Taf's intention of reducing the numbers of non-independent nurse-led activity in their submission in-line with national reporting standards. The nursing treatment function accounted for a fall of 45,129 in Cwm Taf's total attendances with General medicine accounting for a further fall of 16,241. Together these account for a fall of 61,370. Whilst overall attendances are down in Cwm Taf, nearly all of that fall is due to these changes which are coding changes rather than actual changes in attendances. Please see the previous article for more information on this issue.

Aneurin Bevan University Health Board

Progress is being made with invalid nurse and consultant codes being submitted by Aneurin Bevan as their data shows that there were less blank and invalid codes in 2015-16 then there were in previous years. The number of appointments assigned to blank consultant (or nurse) codes had halved from over 5,000 to just over 2,500. The number of invalid nurse codes has fallen from around 500 in 2014-15 to just over 100 in 2015-16. Please see the previous <u>article</u> for more information.

Publication and Revisions

The outpatient data from the OP MDS will be published annually in October (provisional) on <u>StatsWales</u> with an accompany headline showing key points. The publication's exact date will be preannounced one month before on the <u>Upcoming calendar</u> on the <u>Welsh Government website</u>.

Data in this article and StatsWales for 2014-15 has been revised since the last <u>article</u>. This is in line with our plan to revise the last year of data each time we release new data. We will take advice from NWIS regarding considerable revisions for previous years. If resubmissions from LHBs/NHS trusts are considerable the data will be revised. Revised data will be highlighted in the StatsWales table as such.

The data in this article and on StatsWales has not been significantly revised since the previous <u>article</u>. There was no change in the data for 2012-13 and 2013-14. There was a slight change in the number of appointments submitted for 2014-15, which equates to 1,199 additional appointments. The difference in appointments was made up of 1,209 additional appointments submitted from Betsi Cadwaladr and 10 fewer appointments submitted from Velindre. This is out of 3.97 million appointments submitted in the current extract used for this article.

Recommendations

We advise against using the OP MDS to compare LHBs, as the organisations include different activity within their submissions. Please refer to <u>Section 3: Update to quality information</u> and the previous <u>article</u>'s Section 4: Quality information to see how some of the LHBs have changed the way they submit data.

Well-being of Future Generations Act (WFG)

The Well-being of Future Generations Act 2015 is about improving the social, economic, environmental and cultural well-being of Wales. The Act puts in place seven well-being goals for Wales. These are for a more equal, prosperous, resilient, healthier and globally responsible Wales, with cohesive communities and a vibrant culture and thriving Welsh language. Under section (10)(1) of the Act, the Welsh Ministers must (a) publish indicators ("national indicators") that must be applied for the purpose of measuring progress towards the achievement of the Well-being goals, and (b) lay a copy of the national indicators before the National Assembly. The 46 national indicators were laid in March 2016.

Information on indicators and associated technical information - <u>How do you measure a nation's</u> progress? - National Indicators

Further information on the Well-being of Future Generations (Wales) Act 2015.

The statistics included in this article could also provide supporting narrative to the national indicators and be used by public services boards in relation to their local well-being assessments and local well-being plans.

Users and uses

We believe the key users of these statistics are:

- Ministers and their advisors;
- Assembly members and Members Research Service in the National Assembly for Wales;
- Officials within the Health and Social Services Group at Welsh Government;
- NHS Wales;
- Students, academics and universities;
- · Other areas of the Welsh Government;
- Other government departments;
- Media; and
- Individual citizens.

If you are a user and do not feel the above list adequately covers you please let us know by contacting via stats.healthinfo@wales.gsi.gov.uk

Next update of data

October 2017

We want your feedback

We welcome any feedback on any aspect of these statistics which can be provided by email to stats.healthinfo@wales.gsi.gov.uk.

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Annex

OP MDS fields and definitions

More information on the definitions of terms used in this article, and on data sources, can be found in the NHS Wales Data Dictionary.

Measures

New Attendances include any attendance that is the start of the outpatient episode and is the first attendance in a series with the same Consultant or Independent Nurse following a referral (Attendance Category = '1'). Patient arrived on time or late and was seen (Attended or DNA = '5' or '6').

Total Attendances includes all outpatient attendances including new, follow-up and pre-operative assessment attendances (Attendance Category = '1' or '2' or '3'). Patient arrived on time or late and was seen (Attended or DNA = '5' or '6').

Ratio of follow-up to new attendances is the number of follow-up attendances (Attendance Category = '2') divided by new attendances (Attendance Category = '1') during the period under review. Calculated as:

Follow up attendances

New attendances

New outpatients who did not attend (DNA) includes any new attendance (Attendance Category = '1') where the outpatient did not attend and no advanced warning was given (Attended or DNA = '3').

Total outpatients who did not attend (DNA) includes any attendance (Attendance Category = '1' or '2' or '3') where the outpatient did not attend and no advanced warning was given (Attended or DNA = '3').

New appointments includes new appointments (Attendance Category = '1') regardless of whether the outpatient attended the appointment (Attended or DNA = all categories).

Total appointments includes all outpatient appointments including new, follow-up and pre-operative assessment appointments (Attendance Category = '1' or '2' or '3') regardless of whether the outpatient attended the appointment (Attended or DNA = all categories).

Percentage of new appointments where the outpatient did not attend is calculated as:

New outpatients who DNA X 100

New appointments

Percentage of total appointments where the outpatient did not attend is calculated as:

Total outpatients who DNA X 100

Total appointments

Follow-up attendances includes all follow-up attendances (Attendance Category = '2') where the patient arrived on time or late and was seen (Attended or DNA = '5' or '6').

For further information, please visit the <u>NHS Data Dictionary Attendance Category webpage</u>, the Attended or Did not Attend webpage and the Outpatient Attendances webpage.

Specialties

Specialties are divisions of clinical work which may be defined by body systems (dermatology), age (paediatrics), clinical technology (nuclear medicine), clinical function (rheumatology), group of diseases (oncology) or combinations of these factors.

Treatment function is the specialty under which the patient will be or is treated. This may either be the same as the consultant's main specialty or a different specialty function which will be the consultant's interest specialty function. Note that both the main specialty function and the interest specialty function should be based on one of the Royal College specialties. Some health boards implemented new treatment codes before the mandated date (1 April 2016) in 2014-15 and 2015-16. Detailed definitions of each treatment function code can be found on the NHS Wales Data Dictionary Treatment Function Code web page including the valid from and to date.

We have published data from OP MDS based on the treatment function, that is the specialty under which the patient will be or is treated.

Notes on the use of statistical articles

Statistical articles generally relate to one-off analyses for which there are no updates planned, at least in the short-term, and serve to make such analyses available to a wider audience than might otherwise be the case. They are mainly used to publish analyses that are exploratory in some way, for example:

Introducing a new experimental series of data;

A partial analysis of an issue which provides a useful starting point for further research but that nevertheless is a useful analysis in its own right;

Drawing attention to research undertaken by other organisations, either commissioned by the Welsh Government or otherwise, where it is useful to highlight the conclusions, or to build further upon the research;

An analysis where the results may not be of as high quality as those in our routine statistical releases and bulletins, but where meaningful conclusions can still be drawn from the results.

Where quality is an issue, this may arise in one or more of the following ways:

- being unable to accurately specify the timeframe used (as can be the case when using an administrative source);
- the quality of the data source or data used; or
- other specified reasons.

However, the level of quality will be such that it does not significantly impact upon the conclusions. For example, the exact timeframe may not be central to the conclusions that can be drawn, or it is the order of magnitude of the results, rather than the exact results, that are of interest to the audience.

The analysis presented does not constitute a National Statistic, but may be based on National Statistics outputs and will nevertheless have been subject to careful consideration and detailed checking before publication. An assessment of the strengths and weaknesses in the analysis will be included in the article, for example comparisons with other sources, along with guidance on how the analysis might be used, and a description of the methodology applied.

Articles are subject to the release practices as defined by the release practices protocol, and so, for example, are published on a pre-announced date in the same way as other statistical outputs.

Missing value symbols used in the article follow the standards used in other statistical outputs, as outlined below.

- .. The data item is not available
- . The data item is not applicable
- The data item is not exactly zero, but estimated as zero or less than half the final digit shown
- * The data item is disclosive or not sufficiently robust for publication