



Cardiff Study Centre

NEWSLETTER

www.dutystudy.org.uk

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How Are We Doing?

965 children have been recruited with a urine retrieval rate of **87%**

But time is running out fast, so let's see if we can't improve these figures!



Staff Update

Welcome:

- **Rebecca Holland, NISCHR CRC. Rebecca will be assisting her NISCHR colleagues with recruitment among other crucial jobs.**

Apologies To...

Ely Bridge Surgery who were mistakenly omitted from June's "Sample Power" article.

They deserve credit and thanks for achieving a whopping 90% urine retrieval rate! Well done!



Welcome to the Eighth Edition of the Cardiff DUTY Study Newsletter!



This month we are presenting an interview with two of our newest team members; Cherry-Ann Waldron who will be assisting Emma Thomas-Jones & Cathy Lises who will be managing data. We are also pleased to present you with a news article examining the breakdown of recruitment figures so far and demographics within the Welsh Health Boards....enjoy!

Introducing Cherry-Ann Waldron (pictured), Assistant Trial Manager & Cathy Lises, Data Manager.....



Q: Can you tell us a bit more about your respective roles on DUTY?

CAW: I'm assisting with the day-to-day running of the study, taking over some of Emma's responsibilities including monitoring accruals, generating reports, etc, to ensure data is complete across the 4 centres.

CL: My role is to ensure data integrity and identify data quality issues. I will also prepare regular summary reports as well as undertaking preliminary data analysis using SPSS.

Q: What impact do you anticipate DUTY will have on UTI diagnosis in future?

CAW: I can already see the extent of the research being undertaken, which suggests that DUTY is likely to improve the way UTI is diagnosed in children.

CL: I think that the study has already found that prevalence is higher than previous work had shown it to be, so there are bound to be changes in the way that patients are treated.

Q: What do you think are the main challenges for the study?

CAW: As with most studies, recruitment is always going to be one of the main challenges. Aside from that, minimising instances of missing data to ensure datasets are as complete as possible.

CL: We have to ensure that data quality remains high and as complete as possible otherwise, we run the risk of not being able to develop the indicators that form the primary reason for the study.

Q: What are the main challenges for you?

CAW: Joining a study that is already up and running, I have had to quickly appreciate the scope of research, its procedures and the people involved. I am also finalising my PhD, which in itself brings a unique set of challenges.

CL: Keeping on top of requests for information from the research team as well as regularly monitoring the quality of the data. It is going to be a busy time!

Improve your knowledge of microbiology by doing our quick quiz!

1. In one day, bacteria can multiply to the size of:

- (A) a sugar cube; (B) a tennis ball; (C) a grain of rice

2. If bacterial growth were allowed to continue unchecked for one week, the resulting size of this ball of microbes would be equivalent to the size of:

- (A) the Earth; (B) a football; (C) a cricket ball

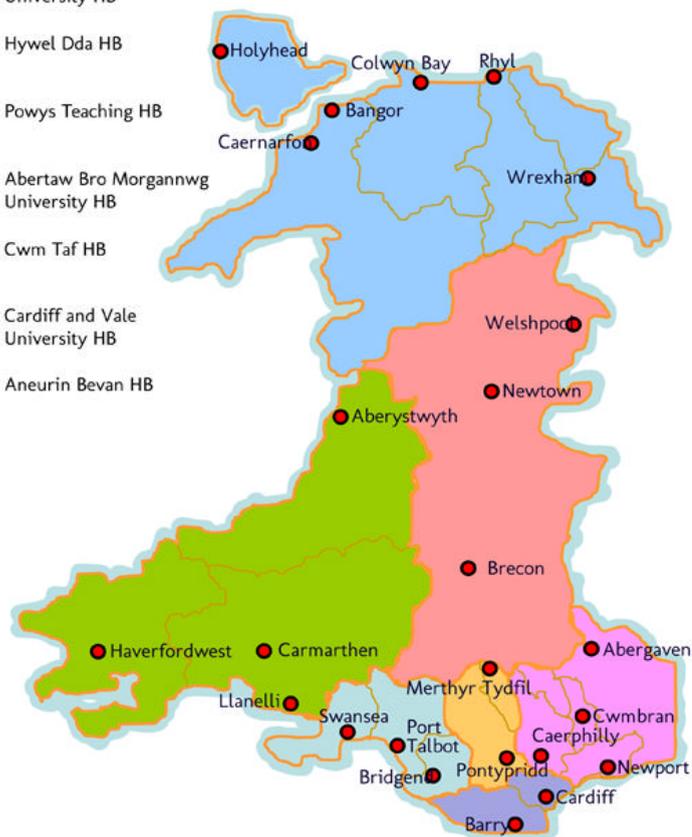
3. Relative to a garden snail, bacteria can move:

- (A) The same speed; (B) Three times faster; (C) Three hundred times slower



Recruitment & Demographics Within the Welsh Health Boards

- Betsi Cadwalader University HB
- Hywel Dda HB
- Powys Teaching HB
- Abertaw Bro Morgannwg University HB
- Cwm Taf HB
- Cardiff and Vale University HB
- Aneurin Bevan HB



In March we compared recruitment figures by surgeries, last month we compared urine retrieval rates; in this issue the Cardiff Centre will compare recruitment figures across the Welsh Health Boards (HBs).

We will divulge the amount of surgeries actively recruiting for DUTY; recruitment rates so far and scrutiny of demographic data and its effects on recruitment within each HB.

With a population of approx. 694,900 (23% of the Welsh population) and covering a third of the landmass of Wales **Betsi Cadwaladr** is the largest HB in both area and population. So far 13 surgeries have been recruited; 3 of these have been closed to recruitment with 2 awaiting training and due to start in late 2011. At present 8 surgeries are currently actively recruiting within the HB and so far, **219** children have been recruited to DUTY. This is impressive when compared with the much smaller, but denser populated HB's within South Wales.

With 375,200 people (13% of the overall population of Wales); **Hywel Dda HB** is the second largest in Wales covering a quarter of the landmass. 4 surgeries have been recruited and are all active with a total recruitment figure of **105** children so far. This is a very impressive figure in an area of significant sparse rural population where a larger proportion of people are aged 55–79 and the General Fertility Rate (GFR) is the lowest of the 7 HBs.

Abertawe Bro Morgannwg HB (ABM) is the most densely populated with 466 people per sq km. It covers 5% of the landmass and 17% of the population with 538,400 people. The GFR within ABM has also steadily risen since 2005 which means there is great potential for recruitment. So far 8 surgeries have been recruited with 6 actively recruiting to DUTY. One surgery is awaiting training and is expected to begin in September 2011. The overall recruitment rate for the ABM is **75** children; which will need to improve significantly if DUTY is to reach its target by the study's end.

Covering 3% of the landmass and 10% of the population (484,700 approx.), **Cwm Taf** is the second smallest HB with over 3 times as many people per sq km and a slightly higher GFR compared to the rest of Wales. However, recruitment has been lower here than in other places. So far only one surgery has been recruited in this area with a total of **35** children. Again, this will need to increase significantly in late 2011–2012 in order for the accomplishment of DUTY targets.

The **Cardiff & Vale** is the smallest, yet most densely populated HB in Wales. Covering less than 3% of the Welsh landmass it has just under 15% of the population (approx. 445,000) with 945 people per sq km. It's not surprising then that it has recruited the largest amount of children despite having the second lowest GFR (Hywel Dda has the lowest) of the 7 HBs. So far 8 surgeries have been recruited and are all active; having recruited a total of **271** children.

Aneurin Bevan HB covers just under 8% of Wales' landmass but has 19% of the overall population (approx. 561,000) with 361 people per sq km and a GFR that differs slightly across areas (e.g. 54.4 in Monmouthshire; 63.8 in Newport) but closely mirrors the overall Welsh average. So far 8 surgeries have been recruited, 6 are active and 2 have been closed to recruitment. With **211** children so far, that makes Aneurin Bevan the third most successful HB recruiting for DUTY.

So far no surgeries have been recruited in the **Powys Teaching HB** despite some significant interest. Covering a quarter of the landmass with a population of 132,000 and the highest GFR there should be some good scope for recruitment here. Plans to expand recruitment into this area and to increase recruitment rates in the other 6 HBs will go forward in late 2011 - early 2012.

Research and Statistics from: "Public Health Wales Observatory", an online NHS resource: <http://www.wales.nhs.uk/sitesplus/922/page/499> (32 - 38)

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