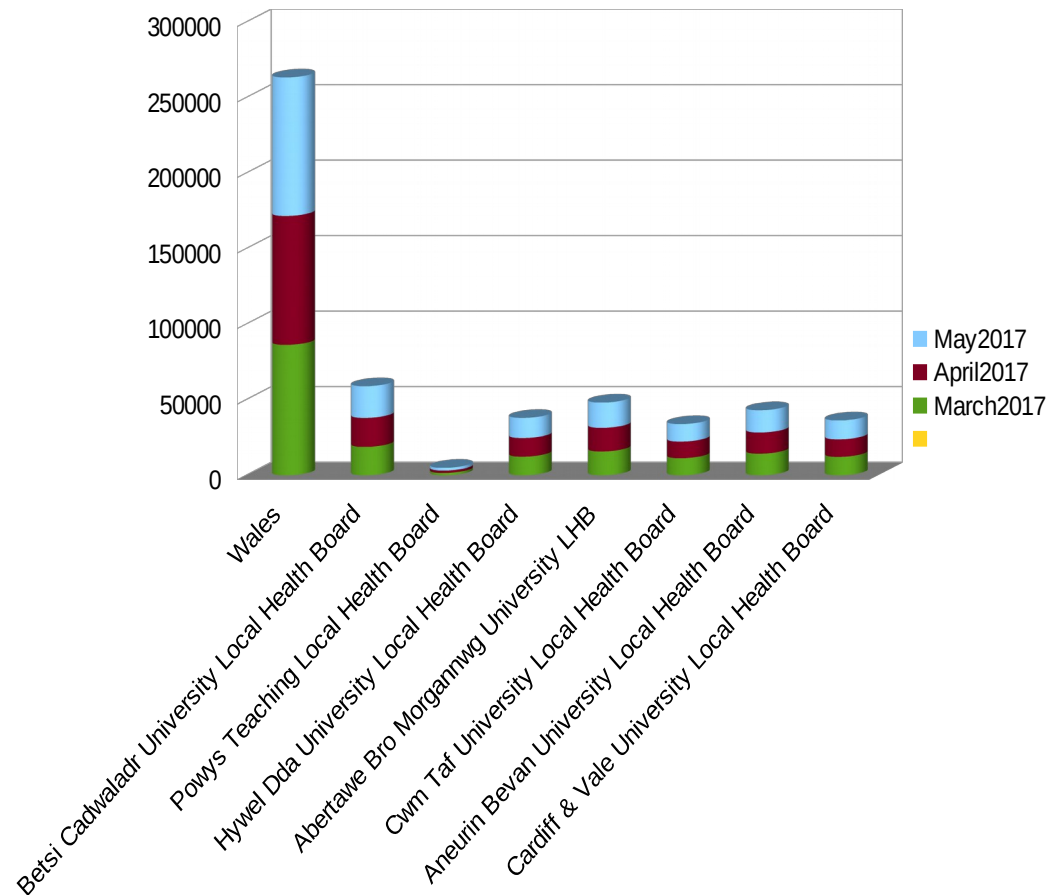


DATA ANALYSIS AND VISUALISATION ASSESSMENT 2

Lecturer: Anupam Mazumdar
Student: Pop Daciana Maria
Student id: 1919877

1. How has the total number of patients seen in each are a varied over the period?

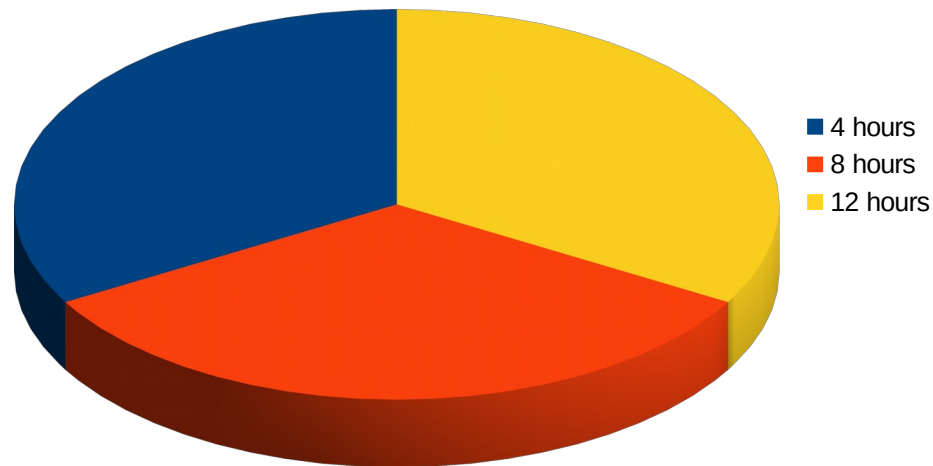
- The span of three months as the data set suggests varied between several health boards. Wales
- received 85,334 patients in the first 4 hours, Betsi Cadwalader University Local Health Board
- had 19,191 patients, Powys Teaching Local Health Board had 1610, Hywel Dda University
- Local health board had 12,302, Abertawe Bro Morgannwg University LHB had 15,591, Cwm
- Taf University Local Health Board had 11,033, Aneurin Bevan University Local Health board
- had 13,992, and Cardiff & Vale University Local Health Board had 11,615 patients in the first 4
- hours of the month of March 2017



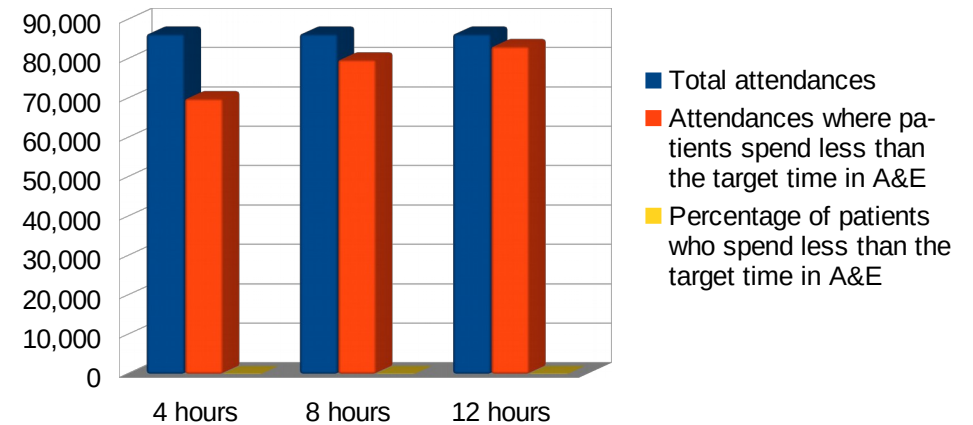
2. How have the proportions of patients treated within 4 hours, 8 hours, 12 hours, and over 12 hours varied in Wales over the period?

May 2017

Wales

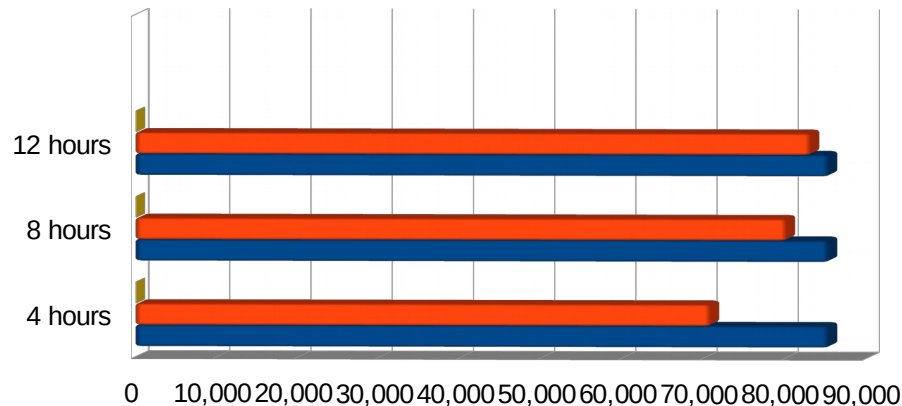


March 2017



APRIL 2017

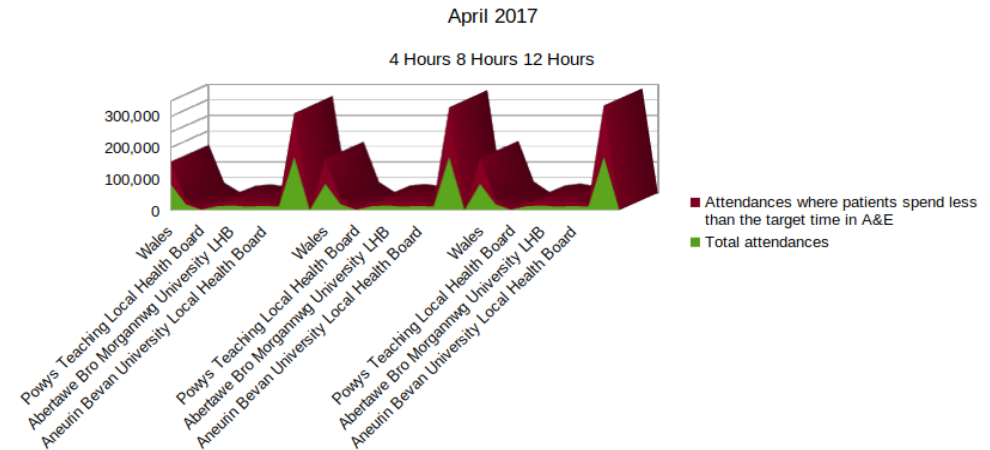
WALES



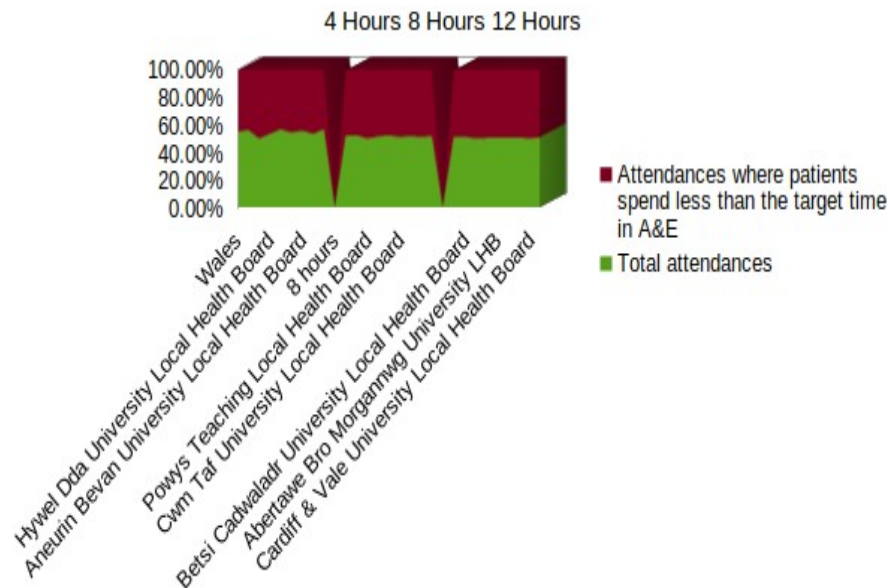
- In Wales, the patients admitted in the first 4 hours were found to be 85,334 and after the completion of 4 hours, 70,791 left the hospital after treatment, after 8 hours the total number of patients that left were found to be 80,149, and after 12 hours the number was found to be 83,112.
- As the researcher finds that 83 percent left after the first four hours, 93.9 .
- after 8 hours, and within 12 hours the percentage of patients that left the hospital after treatment were found to be 97.4 .

3. Do smaller health boards have better treatment times?

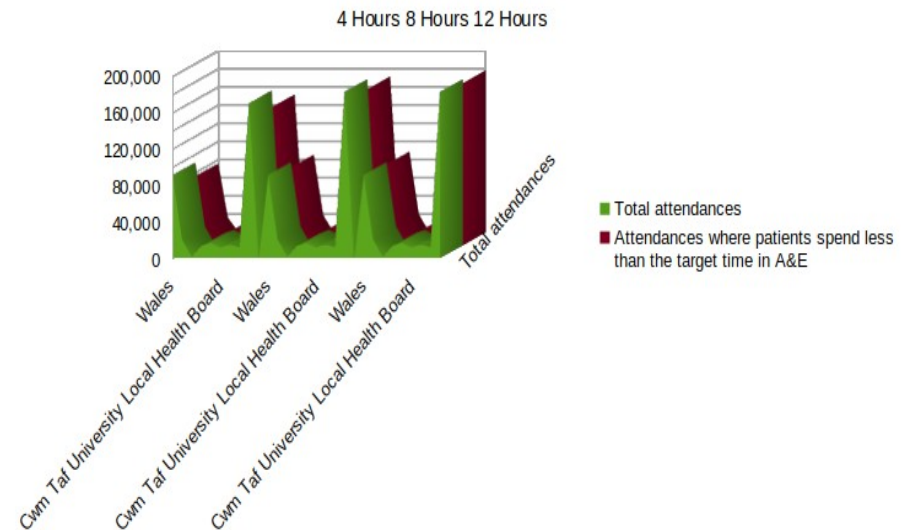
- As the data set shows to the researcher the smaller health boards were Powys Teaching Local
- Health Board, Cwm Taf University Local Board, and Cardiff & Vale University Local health.
- board. 99.9 percent of patients were released from Powys Teaching Local Health Board
- first 4 hours, 86.7 percent left after treatment from Cwm Taf University Local Board, 88.2
- percent left Cardiff & Vale University Local health board after the first 4 hours.
- Therefore, from the above assumption from the provided data set, it could be easily concluded
- that yes smaller health boards have better treatment times as most of the patients left the hospital.
- only within the first 4 hours after admission.



March 2017

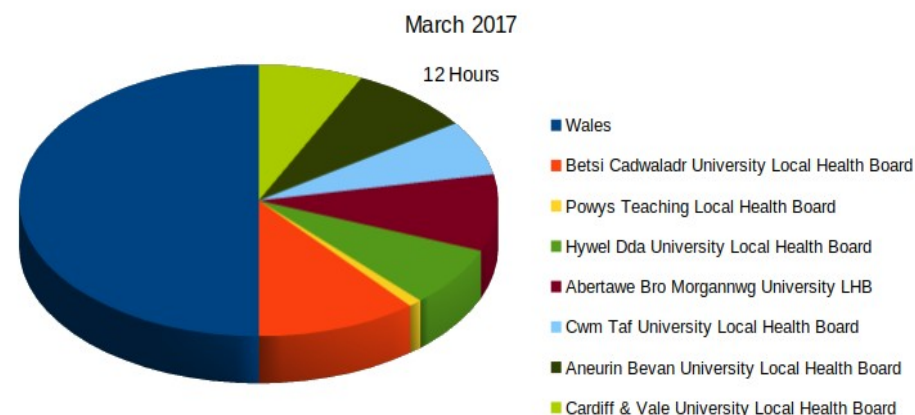


May 2017



4. Assuming that they have an injury that could be treated at any hospital, in which health board area are they most likely to have to wait over 12 hours?

- As the provided data set suggests that the health board from where the least number of patients
- were released in the first four hours and as well as after 12 hours is Betsi Cadwaladr University
- Local Health Board. The percentage was only 77 percent after 4 hours, 90.1 after 8 hours, and
- 95.1 after 12 hours which was the least among all the hospitals and health boards.



April 2017

12 Hours



May 2017

12 Hours



5. Assuming that they have an injury that could be treated at any hospital, in which the health board area are they most likely to have to wait less than 4 hours?

- As per the data from the data set, the researcher finds an excellent number of released patients
- from Powys Teaching Local Health Board. The percentage was 99.9 only in the first 4 hours
- which means that either they have an excellent health service facility or the patients were
- admitted with little and easy problems Therefore if any patient, with an
- injury, could be admitted to Powys Teaching Local Health Board and have to wait approximately
- 4 hours to get an adequate treatment.

