

DATA ANALYSIS AND VISUALISATION

ACCB4002 DAV A1 Task 2 Poster - OCT 2020 - Term 1 Group 1 - Part 1

Prepared for Anupam Mazumdar, University of Wales Trinity St David – DAV

Prepared by Metodi Dalov, Student ID 2009796, BCs Cloud Computing, University of Wales Trinity St David

Introduction

Data analysis has been made on “Monthly Accident & Emergency Report published by NHS Wales Informatics Service”. It helps in analysing number of people attending A&E within different health authorities in Wales.

Proportions of patients treated in 4 hours, 8 hours and 12 hours

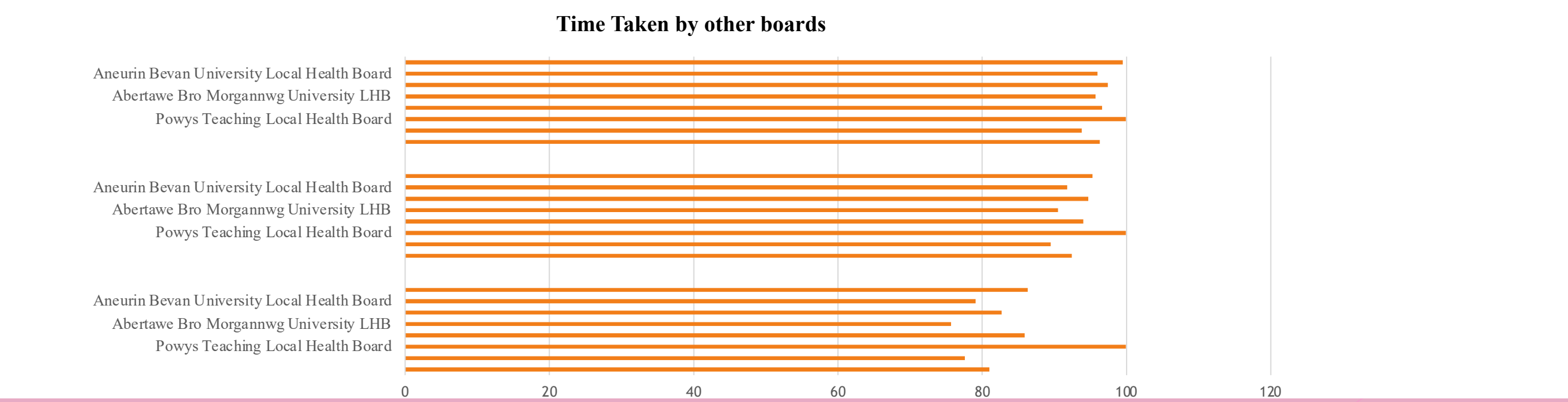
Mar-17											
4 hours				Total attendances	Attendances where patients spend less than the target time in A&E	Percentage of patients who spend less than the target time in A&E	8 hours				12 hours
Wales				86,349	69,911	81	Wales				86,349
Betsi Cadwaladr University Local				18,811	14,592	77.6	Betsi Cadwaladr University Local				18,811
Powys Teaching Local Health Board				7,441	5,710	76.9	Powys Teaching Local Health Board				7,441
Hywel Dda University Local Health				12,324	10,608	85.9	Hywel Dda University Local Health				12,324
Abertawe Bro Morgannwg				12,816	11,970	93.4	Abertawe Bro Morgannwg				12,816
Cwm Taf University Local Health				11,269	9,342	82.9	Cwm Taf University Local Health				11,269
Aneurin Bevan University Local				14,224	11,327	79.6	Aneurin Bevan University Local				14,224
Cardiff & Vale University Local				12,204	10,328	84.6	Cardiff & Vale University Local				12,204

Apr-17											
4 hours				Total attendances	Attendances where patients spend less than the target time in A&E	Percentage of patients who spend less than the target time in A&E	8 hours				12 hours
Wales				85,334	70,791	83.1	Wales				85,334
Betsi Cadwaladr University Local				19,191	14,776	77.1	Betsi Cadwaladr University Local				19,191
Powys Teaching Local Health Board				1,610	1,608	99.9	Powys Teaching Local Health Board				1,610
Hywel Dda University Local Health				12,302	10,781	87.6	Hywel Dda University Local Health				12,302
Abertawe Bro Morgannwg				15,591	12,371	79.3	Abertawe Bro Morgannwg				15,591
Cwm Taf University Local Health				11,033	9,560	86.7	Cwm Taf University Local Health				11,033
Aneurin Bevan University Local				13,992	11,453	81.9	Aneurin Bevan University Local				13,992
Cardiff & Vale University Local				11,615	10,239	88.2	Cardiff & Vale University Local				11,615

May-17											
4 hours				Total attendances	Attendances where patients spend less than the target time in A&E	Percentage of patients who spend less than the target time in A&E	8 hours				12 hours
Wales				91,680	76,229	83.1	Wales				91,680
Betsi Cadwaladr University Local				20,961	16,330	78.0	Betsi Cadwaladr University Local				20,961
Powys Teaching Local Health Board				1,809	1,807	99.9	Powys Teaching Local Health Board				1,809
Hywel Dda University Local Health				13,332	11,858	88.9	Hywel Dda University Local Health				13,332
Abertawe Bro Morgannwg				16,758	13,741	82.1	Abertawe Bro Morgannwg				16,758
Cwm Taf University Local Health				11,577	10,002	86.4	Cwm Taf University Local Health				11,577
Aneurin Bevan University Local				14,755	11,954	81.1	Aneurin Bevan University Local				14,755
Cardiff & Vale University Local				12,508	10,335	82.6	Cardiff & Vale University Local				12,508

Smaller health boards treatment times

It has been found that smaller health board has better treatment time. Betsi Cadwaladr University Local Health Board has taken 77.6% time, Abertawe Bro Morgannwg University LHB has taken 75.7% time and Aneurin Bevan University Local Health Board has taken 79.1% time which is lower than Wales.



Treatment of injury in health board area in over 12 hours

Patients having injury is required to wait over 12 hours in Wales, Powys Teaching Local Health Board, Cardiff & Vale University Local Health Board and Cwm Taf University Local Health Board area.

Treatment of injury in health board area in less than 4 hours

Patients having injury is required to wait less than hours in Betsi Cadwaladr University Local Health Board, Abertawe Bro Morgannwg University LHB and Aneurin Bevan University Local Health Board area.

Conclusion

Number of patients during three month from March 2017 to May 2017 in hospitals and health board of Wales has been analysed in the study. It shows that number of patients in Wales is higher than the other local board areas.

References

- Statswales.gov.wales (2020). *About Monthly Accident & Emergency Report published by NHS Wales Informatics Service.* Available at: <https://statswales.gov.wales/Catalogue/Health-and-Social-Care/NHS-Hospital-Waiting-Times/Accident-and-Emergency/performanceagainst12hourtargetallemergencycarefacilities-by-localhealthboard> [Accessed on 10th December 2020]

Proportions of patients treated in 4 hours, 8 hours and 12 hours

Proportion of patient in 4, 8 and 12 hours varied in Wales. In Wales total patients are 91680 in both 4, 8 and 12 months in March 2017 (Statswales.gov.wales, 2020).

Proportion of patient in 4, 8 and 12 hours varied in Wales. In Wales total patients are 85334 in both 4, 8 and 12 months in April 2017.

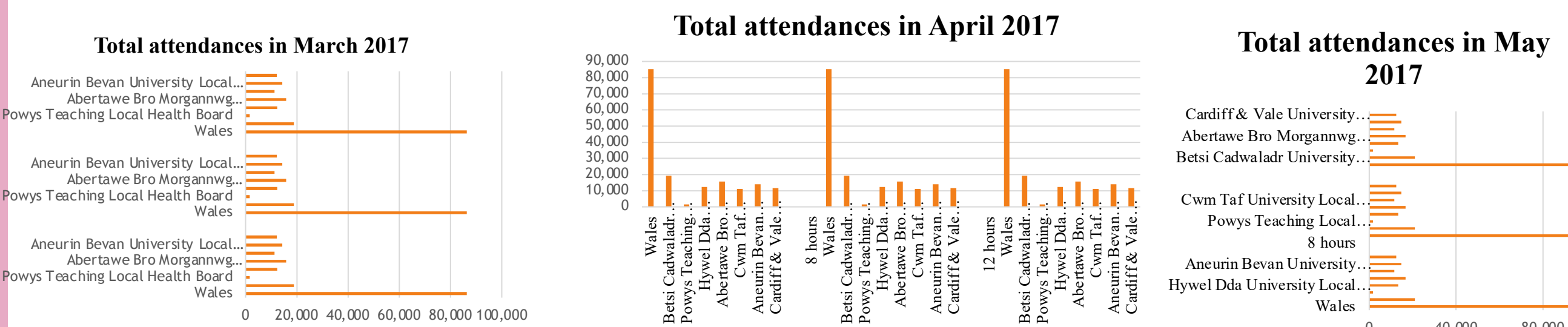
Proportion of patient in Wales are 91680 in both 4, 8 and 12 months in May 2017. Moreover, attendances where patients spend less than the target time in A&E is 76229 and percentage of patients who spend less than the target time in A&E is 83.1% in both the months.

Total number of patients over period

Total attendances in Wales is higher as compare to other in health board of Wales. In 4 hours it has 86349 total attendance, 69911 attendances where patients spend less than the target time in A&E and 81% percentage of patients who spend less than the target time in A&E.

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Task 2

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