

# Heaviness past, heaviness present and heaviness future

Measuring, describing and finding solutions to exit block in acute hospitals

#### The agenda

- 1) Terms and conditions
- 2) The Unscheduled Care Pathway Diagram
- 3) The Flow\_ology Grid
- 4) The Gold Run
- 5) The Fullness Hypothesis (is dead)...
- 6) (Long live the) Heaviness Hypothesis!
- 7) Questions, comments and criticisms

# 1 Terms and conditions

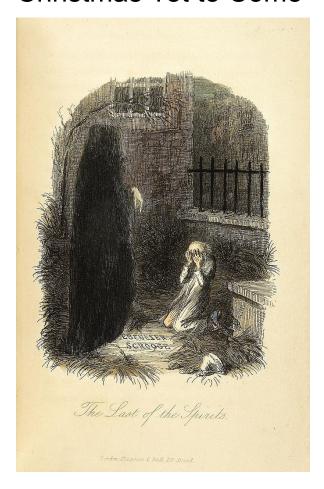
#### **Christmas Past**



**Christmas Present** 



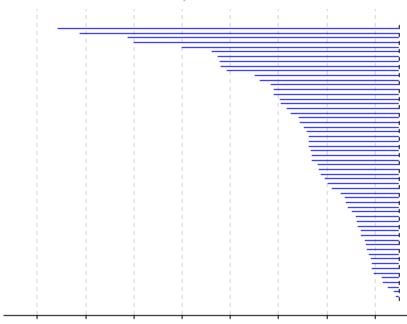
Christmas Yet to Come



#### **Heaviness Past**

#### **AMU Heaviness**

Mon 25 March 2024 | 12:00 No. of AMU inpatients captured by the snapshot = 58 Average length of stay so far = 47.6 hours Accumulated bed hours = 2,761

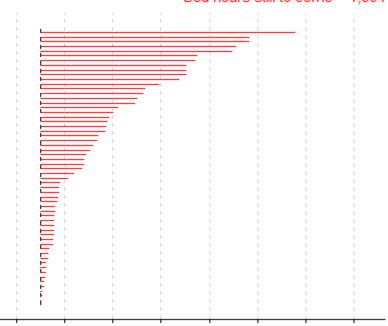


18-Mar 19-Mar 20-Mar 21-Mar 22-Mar 23-Mar 24-Mar 25-Mar

#### Heaviness Yet to Come

#### **AMU Future Heaviness**

Mon 25 March 2024 | 12:00 No. of AMU inpatients captured by the snapshot = 58 Average length of stay still to come = 31.1 hours Bed hours still to come = 1,804

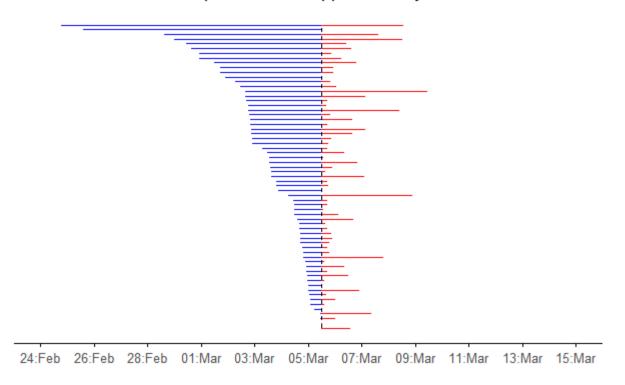


25-Mar 26-Mar 27-Mar 28-Mar 29-Mar 30-Mar 31-Mar 01-Apr

#### **Heaviness Present**

#### Heaviness past and heaviness still to come

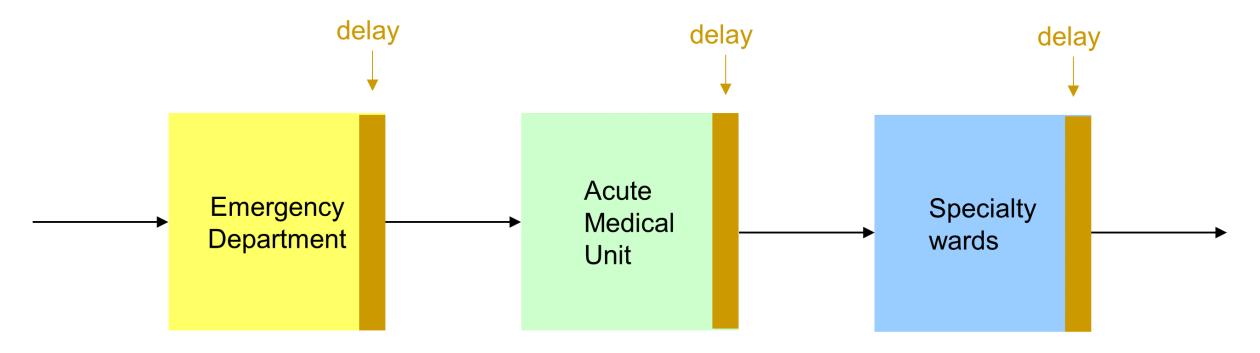
65 AMU inpatients overlapped midday on 5th March 2024



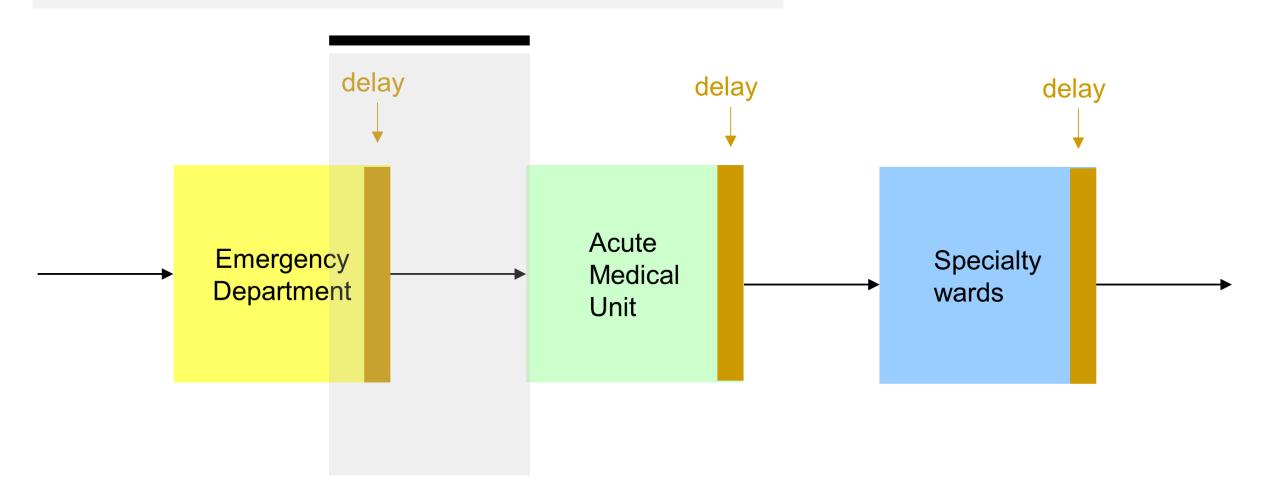
# 2 The Unscheduled Care Pathway Diagram

#### The Unscheduled Care Pathway

(massively over-simplified!)



#### The ED to AMU handover

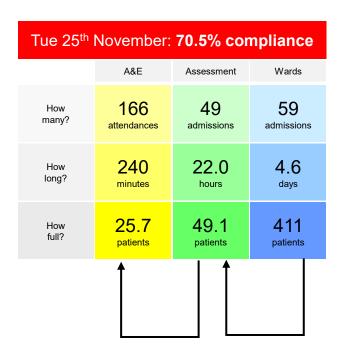


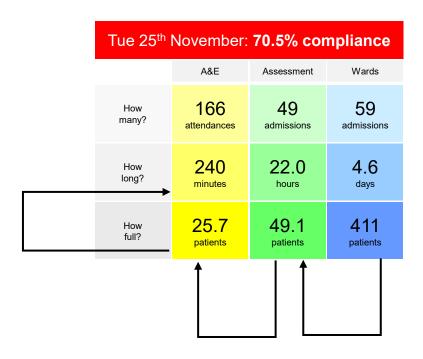
# 3 The Flow\_ology Grid

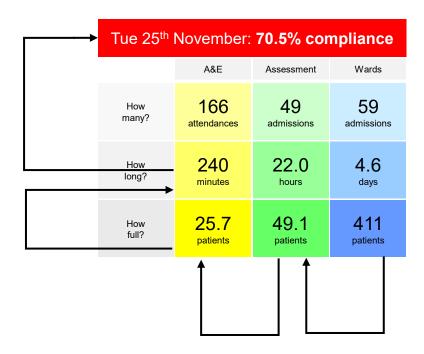
#### The Flow\_ology grid

Tue 25 <sup>th</sup> November: <b>70.5% compliance</b>				
	A&E	Assessment	Wards	
How many?	166 attendances	49 admissions	59 admissions	
How long?	240 minutes	22.0 hours	4.6 days	
How full?	25.7 patients	49.1 patients	411 patients	

Tue 25 <sup>th</sup> November: <b>70.5% compliance</b>				
	A&E	Assessment	Wards	
How many?	166 attendances	49 admissions	59 admissions	
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# 4 The Gold Run

#### Blockbusters



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#### Blockbusters (British game show)

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From Wikipedia, the free encyclopedia

This article is about the television game show. For other uses, see Blockbuster.



This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.

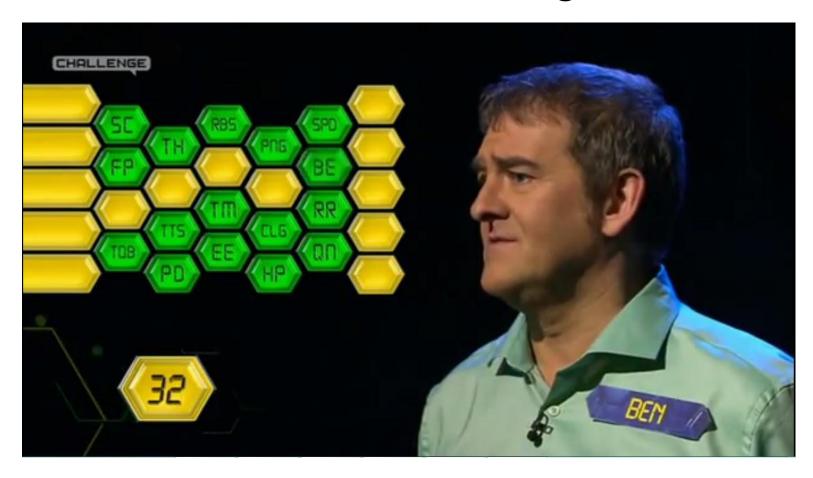
Find sources: "Blockbusters" British game show - news · newspapers · books · scholar · JSTOR (August 2010) (Learn how and when to remove this message)

Blockbusters is a British television guiz show based upon an American quiz show of the same name. A solo player and a team of two answer trivia questions, clued up with an initial letter of the answer, to complete a path across or down a game board of hexagons.

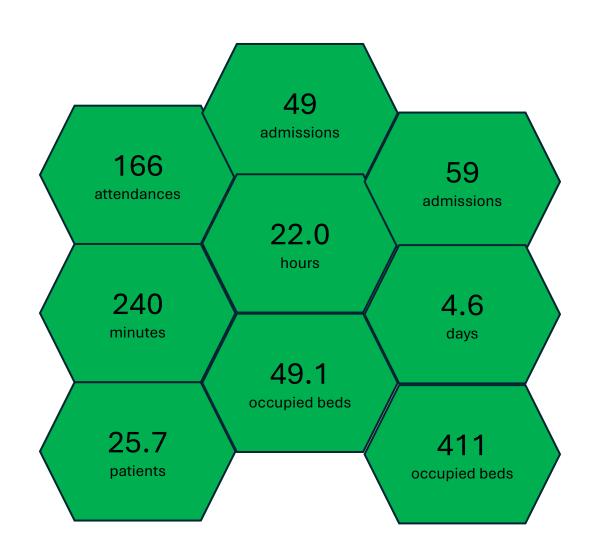
The programme premiered on 29 August 1983 on ITV and ran for ten series, ending on 19 May 1993. It has since been revived for four additional series, the most recent of which was a comedy version hosted



#### Blockbusters and the gold run



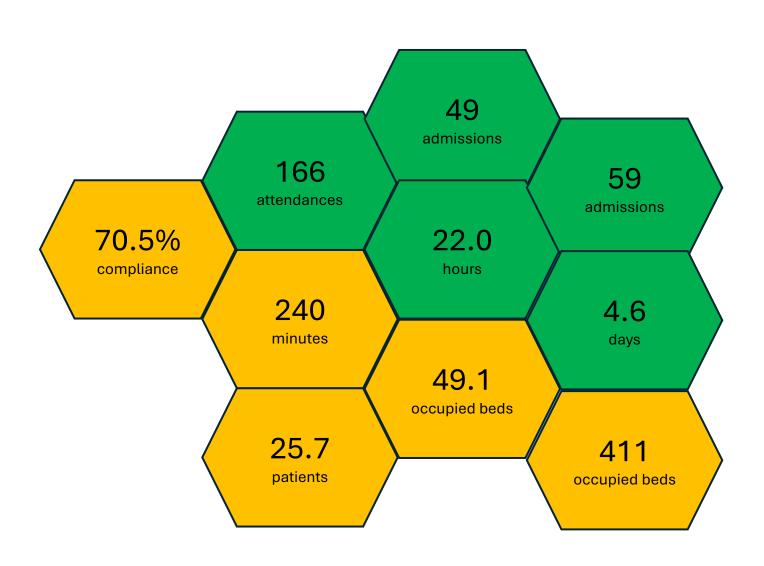
#### The grid re-designed in the spirit of Blockbusters



#### The gold run



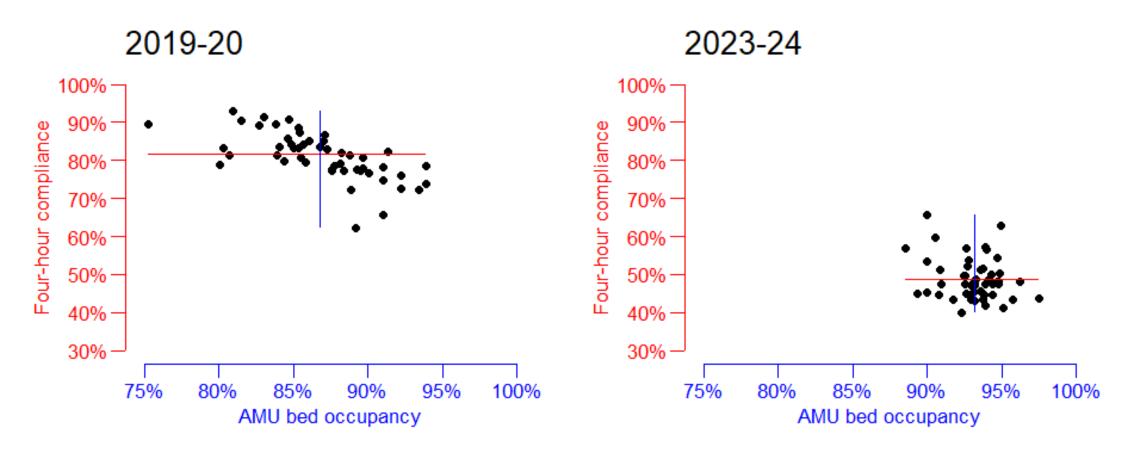
#### (Also looks a bit like a turtle. Weird.)



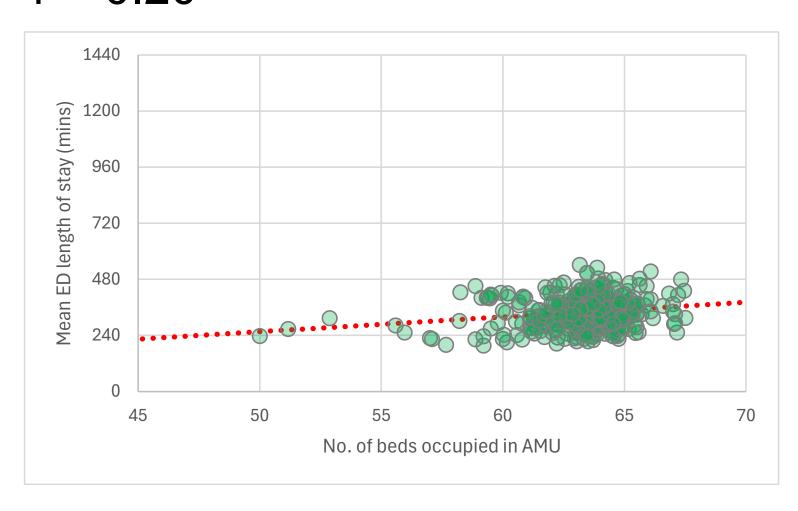
# 5 The Fullness Hypothesis (is dead...)

## The relationship between AMU bed occupancy and four-hour compliance

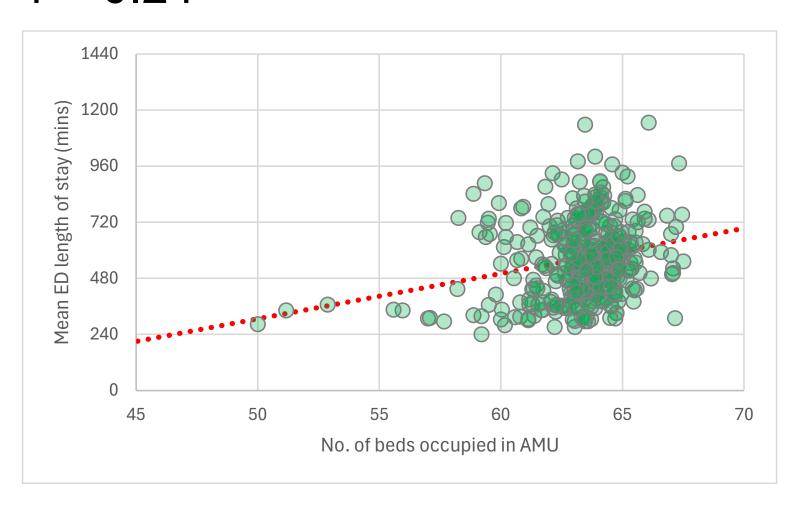
**Anytown General Hospital** 



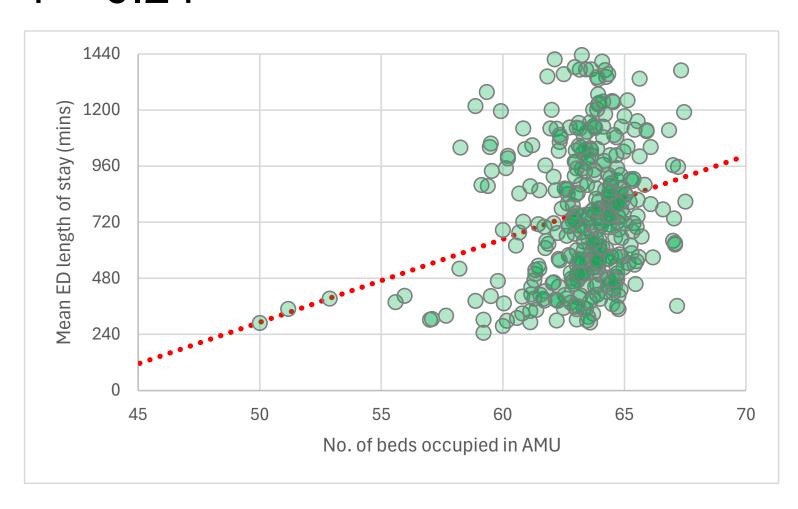
### Vertical axis: all ED patients in 2023-24 r = 0.20



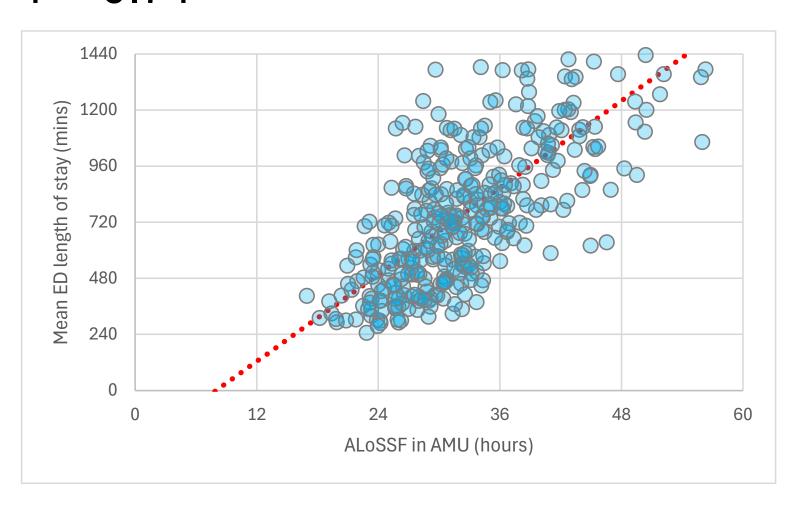
### Vertical axis: admitted ED patients in 2023-24 r = 0.24



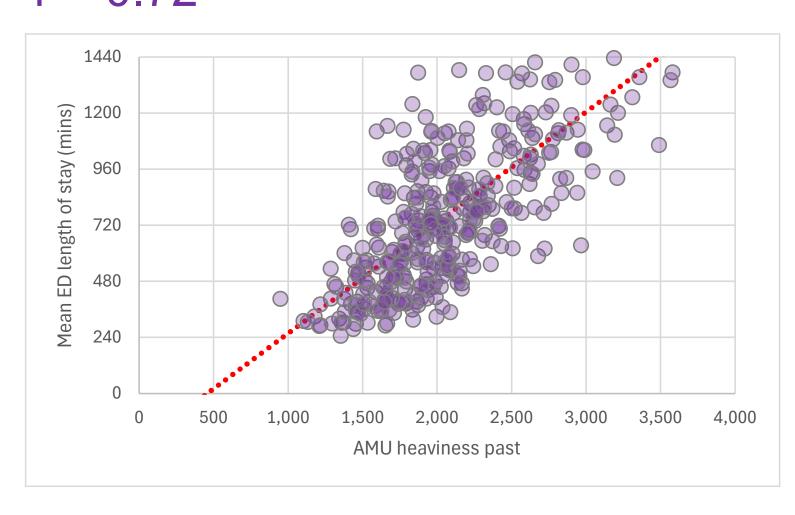
## Vertical axis: **AMU-bound** ED patients in 2023-24 r = 0.24



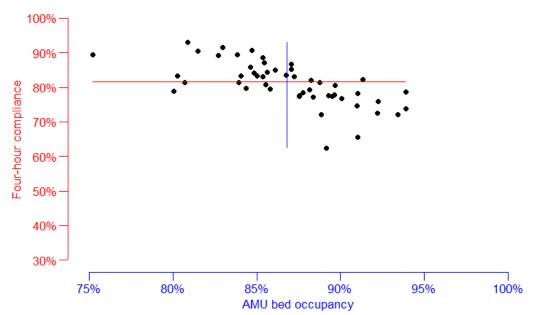
## Horizontal axis: AMU length of stay so far r = 0.71



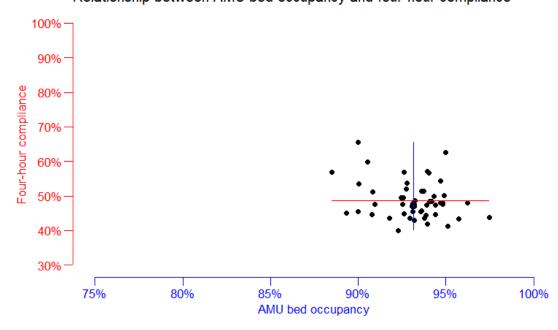
### Horizontal axis: **AMU heaviness past** r = 0.72



The 52 weeks of 2019-20 Relationship between AMU bed occupancy and four-hour compliance

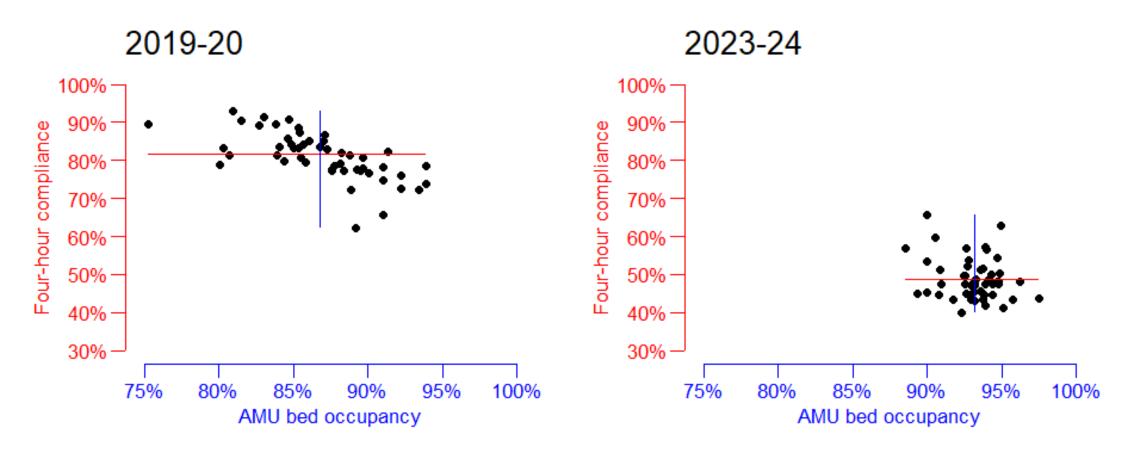


The 52 weeks of 2023-24
Relationship between AMU bed occupancy and four-hour compliance



## The relationship between AMU bed occupancy and four-hour compliance

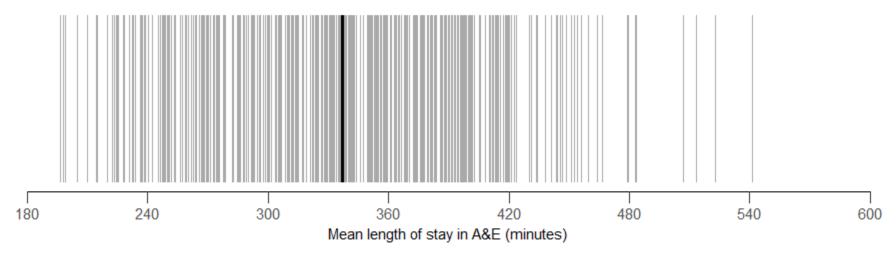
**Anytown General Hospital** 



# 6 (Long live) the Heaviness Hypothesis!

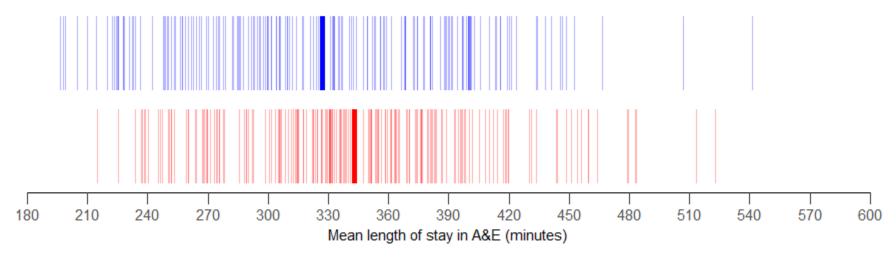
#### Quite a lot of variation

Average length of stay in A&E on each of the 366 days of 2023-24



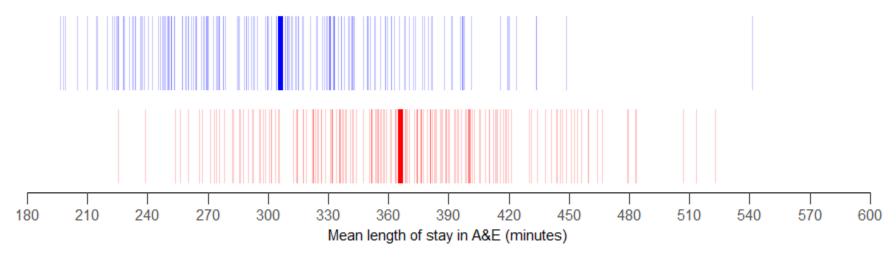
#### AMU less full and AMU more full

Average length of stay in A&E on each of the 366 days of 2023-24



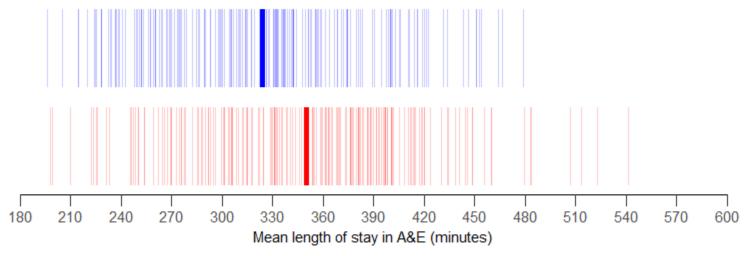
#### AMU less heavy and AMU more heavy

Average length of stay in A&E on each of the 366 days of 2023-24



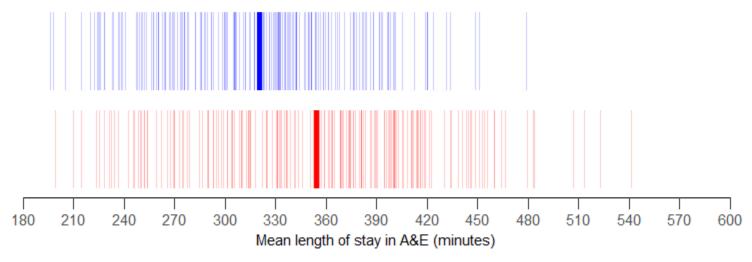
#### Specialties less full and specialties more full

Average length of stay in A&E on each of 366 days: 1 April 2023 to 31 March 2024



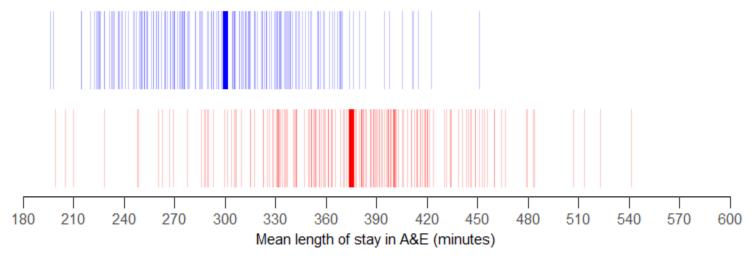
#### Specialties lighter and specialties heavier

Average length of stay in A&E on each of 366 days: 1 April 2023 to 31 March 2024



#### Specialties future-lighter and specialties future-heavier

Average length of stay in A&E on each of 366 days: 1 April 2023 to 31 March 2024



#### Why heaviness might help

#### Post-AMU General Medicine What 'ought What is to be'... How many? 6.4 5.6 (average per admissions admissions day) How long? 8.8 9.4 X (average length of stay) days days How full? 60.2 49.3 (average no. of occupied beds occupied beds occupied beds)

Maybe it could help specialties look at length of stay and occupancy as joined-up metrics...