Type 1 A&E: Admitted, transferred or discharged within 4 hours of arrival

Control chart - % of patients within the A&E 4 hour standard

Is the system **in control?**

The system is not in control
(the variation is not random)

Is there any **special cause** variation?

**Outlier:** beyond control limits?
Several extreme values

**Shift:** a run either side of mean?
Shift in typical performance

**Trend:** a run rising or falling?
none found

**Outer third:** close to control limits?
Run of unusual performance

**Inner third:** a run close to mean?
none found

What is **usual performance** if the system is in control?

Breaches would be the norm
Action needed at system level

For an explanation of A&E control charts: https://blog.gooroo.co.uk/?p=8589
For more A&E control charts: https://gooroo.co.uk/reports/

Want to tackle A&E waits by modelling demand & capacity across the whole hospital?

Or use control charts to solve bed and theatre pressures?

Gooroo Planner does both - just email info@gooroo.co.uk for a free on-site demo.

A system in control shows a single peak that tails off either side.

Anything else suggests the system has not always been in control, or has shifted from one state of control to another.

* A&E waiting times up to October 2019
Based on data published by NHS England: 14 November 2019