

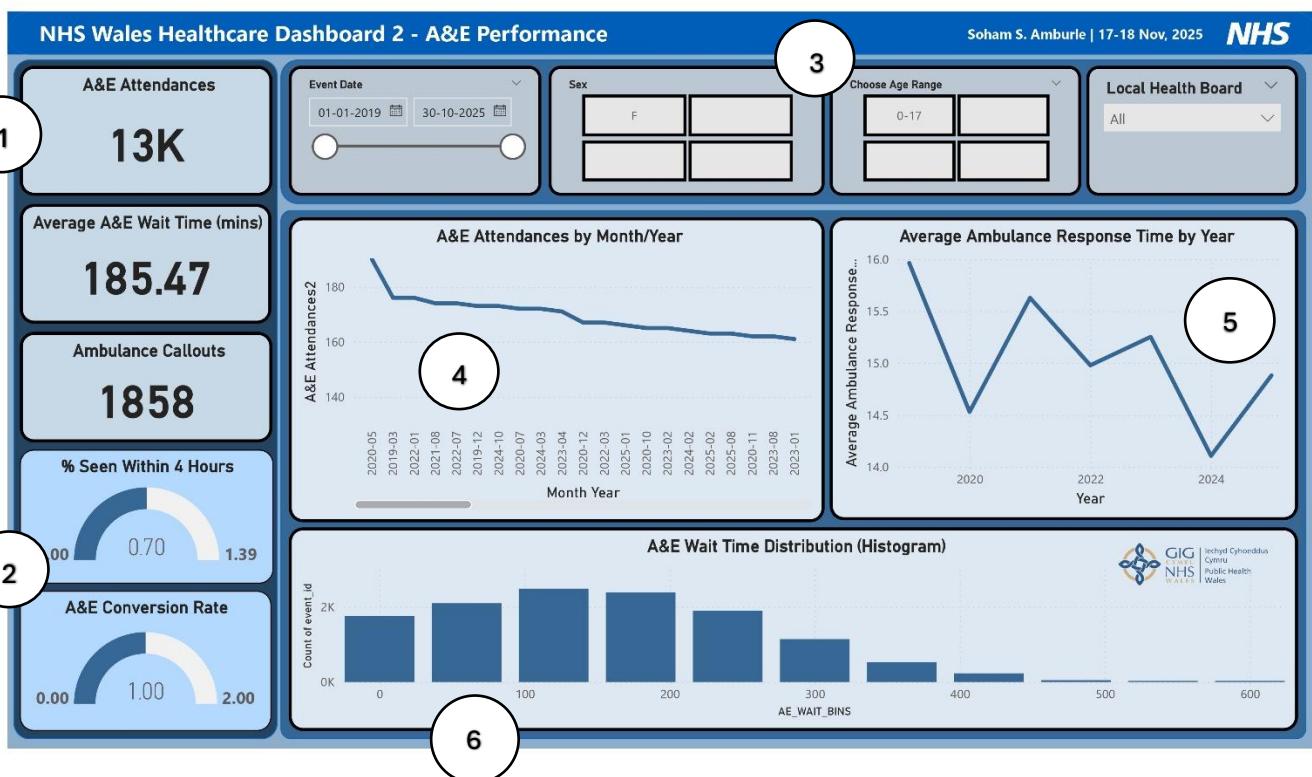
NHS Wales - Dashboard 2 - Accident and Emergency (A&E) Performance

Documentation by Soham S. Amburle | 17-18 November 2025

The Accident and Emergency (A&E) Performance Dashboard provides a comprehensive overview of emergency care activity across NHS Wales.

Designed in Power BI using a synthetic dataset, this dashboard visualizes key operational performance indicators such as attendances, wait times, ambulance demand, response times, and admission conversion rates. The dashboard enables healthcare managers, analysts, and policy teams to quickly assess service pressures, monitor compliance with national A&E targets, and identify performance trends.

With interactive filters and clear KPI displays, the dashboard supports evidence-based decision-making and improves visibility into emergency care performance across different demographics and regions.



Description -

- Cards (KPI Indicators):** These KPIs offer an instant snapshot of A&E performance:
 - A&E Attendances: total number of emergency visits
 - Average A&E Wait Time (mins): mean waiting time before treatment
 - Ambulance Callouts: number of patients arriving via ambulance
 - % Seen Within 4 Hours: compliance with the NHS 4-hour performance target
 - A&E Conversion Rate: percentage of patients admitted after A&E attendance
- Gauge:**
 - % Seen Within 4 Hours: compliance with the NHS 4-hour performance target
 - A&E Conversion Rate: percentage of patients admitted after A&E attendance
- Slicers:** Interactive filters that allow users to adjust the dashboard view:
 - Event Date
 - Sex
 - Age Range
 - Local Health Board

These filters enhance interactivity and enable tailored analysis across time, demographics, and regions.

4. **A&E Attendances by Month/Year (Line Chart):** Displays long-term trends in A&E activity, helping identify seasonal patterns, demand fluctuations, and changes over time.
5. **Average Ambulance Response Time by Year (Line Chart):** Shows how response times have evolved, providing insight into ambulance service performance and operational capacity.
6. **A&E Wait Time Distribution (Histogram):** Illustrates how long patients waited before receiving care, grouped into time bins. This helps identify bottlenecks, long-wait occurrences, and general wait time distribution.

The A&E Performance Dashboard delivers a clear, interactive, and data-driven view of emergency care across NHS Wales.

It highlights key performance metrics, visualizes trends in attendances and ambulance response times, and reveals the distribution of patient wait times.

With dynamic filters for age, gender, time period, and region, this dashboard supports efficient analysis and helps stakeholders monitor service demand and performance outcomes.

Created by SOHAM S. AMBURLE
17-18 November, 2025