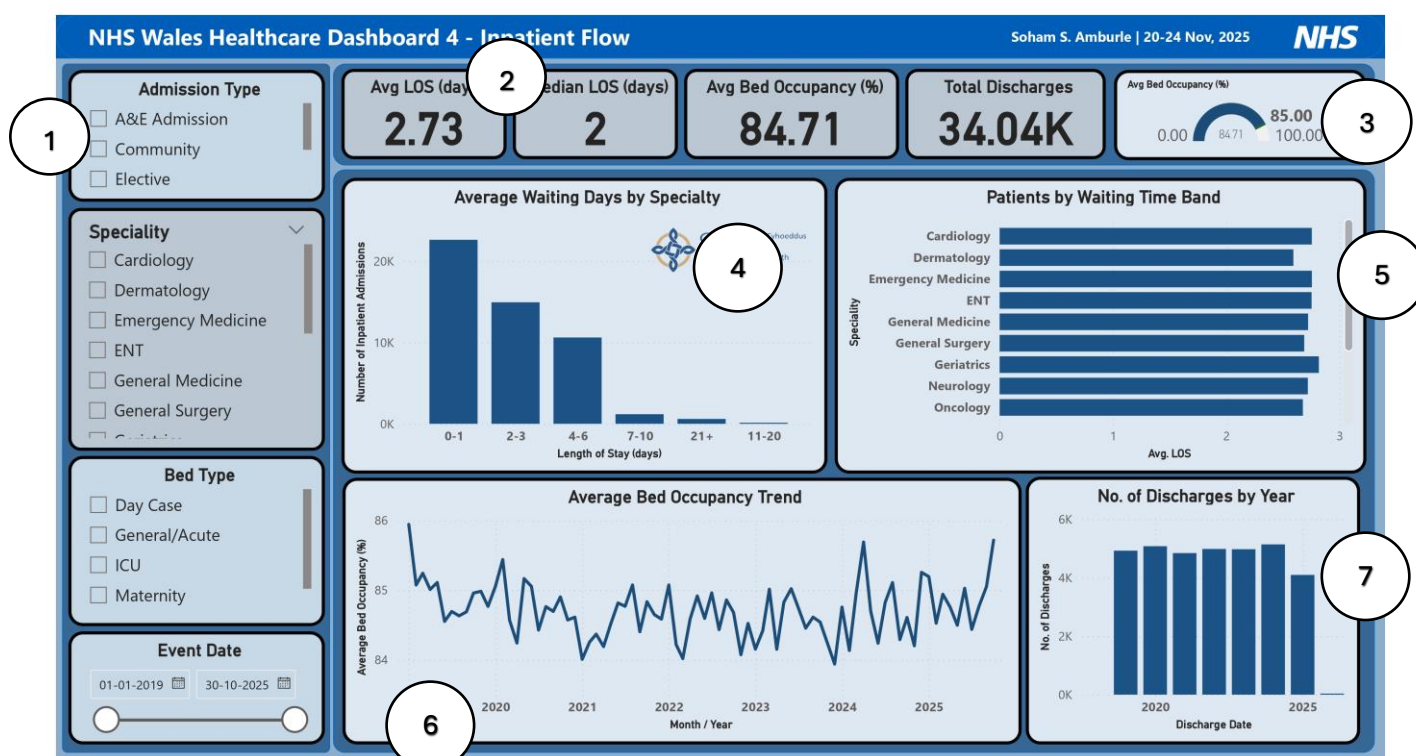


NHS Wales – Dashboard4 – Inpatient Flow

Documentation by Soham S. Amburle | 20-24 November 2025

The **Inpatient Flow Dashboard** provides a comprehensive, data-driven view of hospital inpatient activity within NHS Wales. The dashboard enables operational leaders, clinicians, managers, and analysts to monitor patient flow, inpatient capacity, and service pressures in real time. It highlights key metrics such as length of stay, bed occupancy, discharge patterns, and clinical workload by specialty.

By visualising inpatient demand and performance trends, the dashboard supports informed decision-making, efficient resource allocation, and improved patient outcomes.



Description -

- 1. Slicers:** The following slicers allow users to dynamically segment and filter inpatient data -
 - Admission Type:** Filters inpatient events based on the nature of admission (Elective, Non-Elective, Emergency, etc.)
 - Specialty:** Enables analysis of inpatient activity by clinical specialty (e.g., Cardiology, Surgery, Medicine).
 - Bed Type:** Allows comparison of occupancy and LOS between different bed categories such as General & Acute, ICU, etc.
 - Event Date:** Provides a flexible date range selector for trend and time-series analysis.
- 2. KPI Cards:**
 - AVG LOS(Days):** Displays the average inpatient length of stay, helping monitor operational efficiency.
 - Median LOS (Days):** Shows the median length of stay, offering a more stable central tendency unaffected by outliers.
 - Avg. Bed Occupancy (%):** Indicates average inpatient bed occupancy across the selected period and filters.
 - Total Discharges:** Shows the total number of inpatient discharges, supporting flow and throughput analysis.
- 3. Gauge:**
 - Avg. Bed Occupancy (%):** A visual representation of bed occupancy levels against capacity thresholds. It is useful for identifying pressure points and whether wards are operating near maximum capacity.

4. **Average Waiting Days by Speciality (Clustered Column Chart):** Displays the average waiting time (in days) for treatment across specialties. Useful for identifying specialties with longer inpatient waits or delayed pathways.
5. **Patients by Waiting Time Band (Clustered Bar Chart):** Groups patients into waiting-time categories (e.g., 0–7 days, 8–14 days, 15+). Helps highlight distribution patterns and identify long-wait outliers.
6. **Average Bed Occupancy Trend (Line Chart):** A time-series view of inpatient bed occupancy, enabling analysis of peaks, seasonal variations, and capacity strain. This visual supports demand surge planning.
7. **No. of Discharges by Year (Clustered Column Chart):** Displays yearly discharge volumes, illustrating improvements or declines in inpatient throughput year-on-year.

The Inpatient Flow Dashboard provides a comprehensive and actionable overview of inpatient performance within NHS Wales.

It combines capacity analytics (bed occupancy), efficiency metrics (length of stay), and operational throughput (discharges) into a single, intuitive interface.

Users can:

- Identify high-pressure specialties
- Monitor capacity utilisation
- Detect trends in inpatient activity
- Explore patient flow variations over time
- Support operational planning with real-time insights

Overall, this dashboard is a powerful tool for improving hospital performance, reducing delays, and enhancing patient care.

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