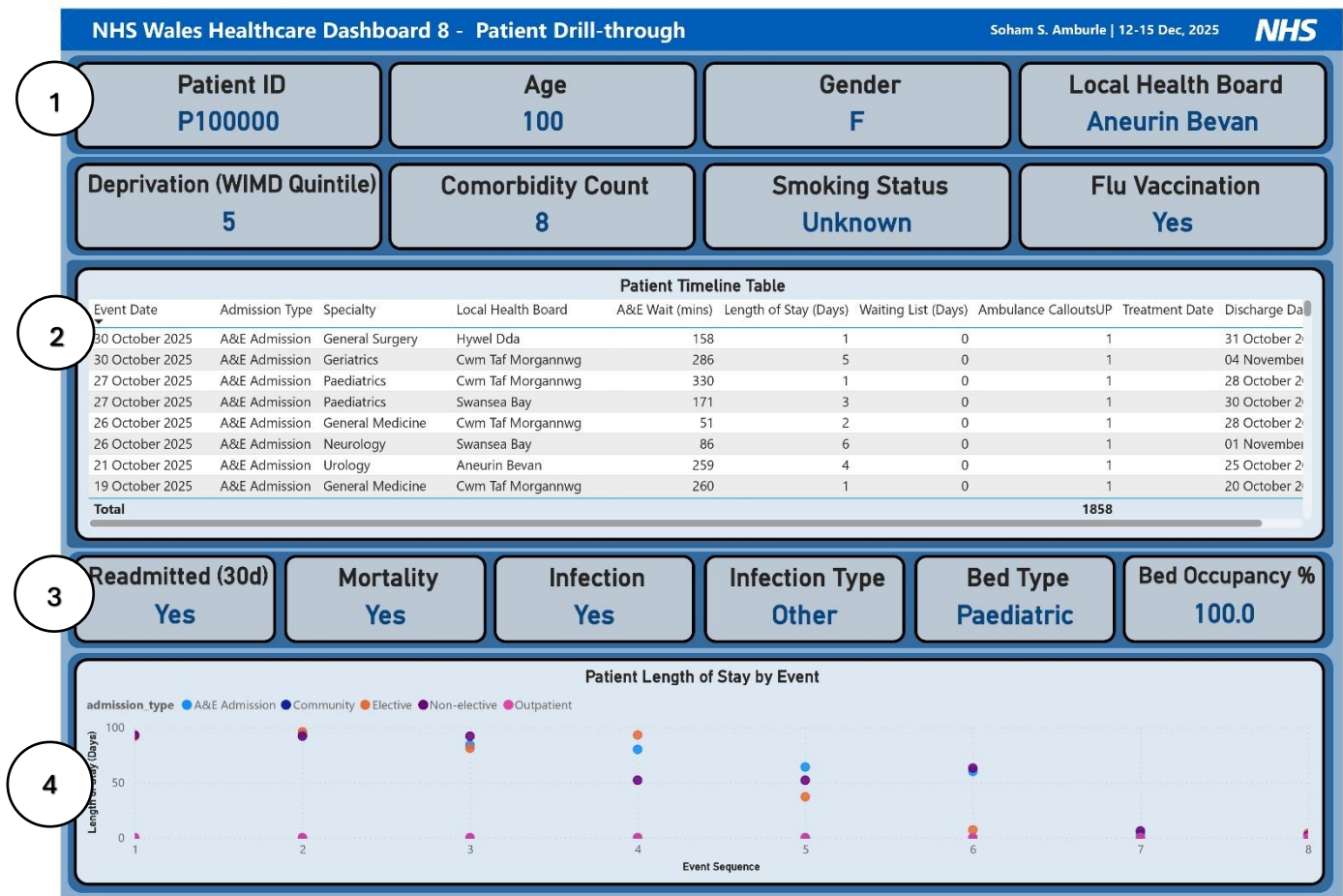


NHS Wales – Dashboard8 – Patient Drill-Through

Documentation by Soham S. Amburle | 12-15 December, 2025

The Patient Drill-Through dashboard provides a comprehensive, patient-level view of an individual’s healthcare journey across NHS Wales. It enables clinicians, analysts, and operational leaders to review patient demographics, socioeconomic risk factors, clinical complexity, care events, and outcomes in a single, integrated view. The dashboard supports clinical review, quality and safety investigations, and operational analysis by presenting both detailed event-level data and high-level indicators of patient outcomes and trajectory.



- **WIMD Quintile:** Places the patient within the national deprivation distribution (1 = most deprived, 5 = least deprived).
- **Comorbidity Count:** Shows the number of recorded long-term conditions, reflecting clinical complexity.
- **Smoking Status:** Indicates lifestyle risk relevant to respiratory and cardiovascular outcomes.
- **Flu Vaccination:** Displays whether the patient has received a flu vaccine, supporting preventative care assessment.

2. Patient Care Journey (Timeline Table)

Patient Timeline Table: Presents a chronological, event-level view of the patient's interactions with healthcare services, including admission type, specialty, A&E wait times, length of stay, waiting list duration, treatment dates, and discharge dates. This table forms the factual backbone of the patient journey and supports auditability and clinical review.

3. Clinical Outcomes & Safety (Outcome Cards)

These indicators summarise key patient outcomes and safety-related events arising from the care journey.

- **Readmitted Within 30 Days:** Flags whether the patient experienced an unplanned readmission, a key quality-of-care metric.
- **Mortality:** Indicates whether the patient died, supporting outcome monitoring and case review.
- **Infection:** Shows whether a healthcare-associated infection occurred.
- **Infection Type:** Displays the recorded type of infection, where applicable.
- **Bed Type:** Identifies the level of care required (e.g., general or higher acuity).
- **Bed Occupancy Percentage:** Provides operational context by showing the occupancy pressure associated with the patient's bed usage.

4. Patient Trajectory Over Time (Scatter Plot)

Patient Length of Stay by Event (Scatter Plot): Visualises length of stay across successive patient events, enabling users to identify patterns, escalation, or improvement in hospital utilisation over time. Differentiation by admission type allows comparison between emergency and elective care episodes.

Thus, the Patient Drill-Through dashboard delivers a holistic, patient-centred view of healthcare delivery and outcomes. It combines demographic and risk context, detailed care events, and outcome indicators with a visual representation of patient trajectory over time. This enables:

- Structured clinical and multidisciplinary review
- Quality and safety investigations
- Analysis of frequent attenders and long-stay patients
- Informed operational and service improvement discussions

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