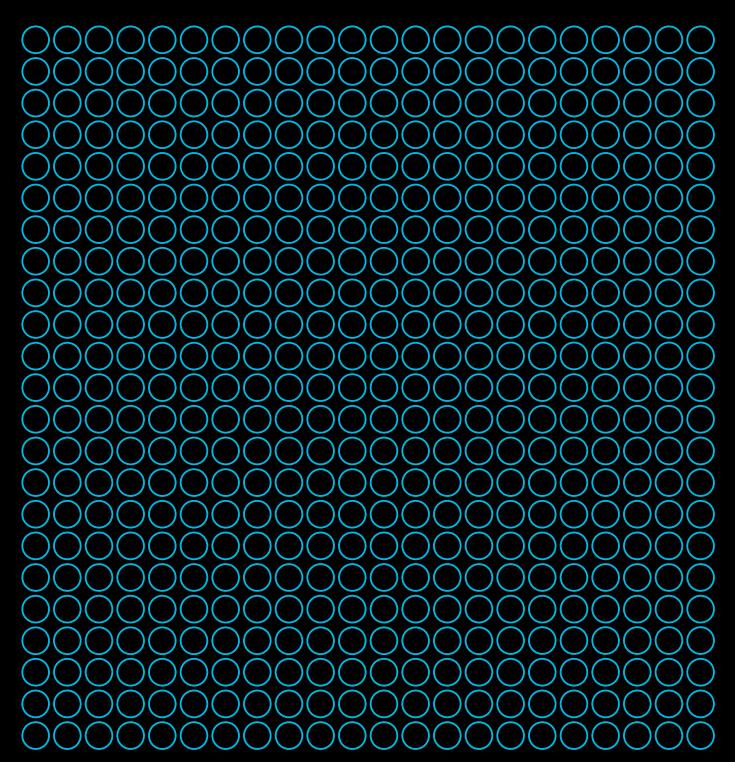


# SystemView Guide Emergency Department





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# Introduction

## **Healthcare Logic**

**HealthCare Logic** develops hospital performance improvement software that automates demand and capacity analyses. Our algorithms are designed to help healthcare staff improve relationships and optimise care processes through high-frequency, patient and doctor level analytics.



**HealthCare Logic** is a global company with headquarters in the Gold Coast, Australia, and Dublin, Ireland. Our products are now in 150+ hospitals and 5+ jurisdictions, including Queensland, South Australia, and Ireland — with many more to come.

### **SystemView**

**SystemView** is an automated hospital data analytics system for sustainable performance improvement. Our hospital management system integrates with and transforms your data into a powerful tool for performance monitoring and smart decision making.

#### **Beds**

Provides near real time views of inpatient occupancy, analyses on ward discharge trends, scheduled demand, complex patients, risk of hospitalisation, length of stay trends, ward dynamics, inpatient flow, bed capacity and ward demand.

#### **Emergency Department**

Provides near real time patient off stretcher times, national emergency access targets, near real time emergency department data, patient flow, trends, length of stay and bed capacity and treating clinician data.

#### **Outpatients**

In-depth analyses of waiting lists, daily patient list, referral management, outpatient demand and activity, wait times, future clinic booking, reviews and clinic effectiveness.

#### Surgery

Includes the current emergency list, daily elective surgery waiting lists, surgical demand and capacity analysis, theatre planning, theatre effectiveness, activity trends, chronological management and treated in time metrics.

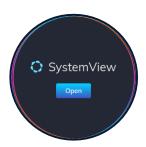
# Platform Localisation & Updates

Your instance of **SystemView** is localised and customised for your facilities, workflows and terminology. The platform is also updated progressively as new improvements or enhancements are approved for release. As such, please be aware that the components and functionality outlined in this material may vary slightly from the version of **SystemView** you are currently using.

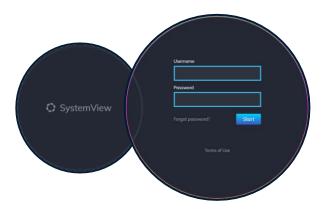
# **Navigation**

# Logging In

Navigate to the SystemView URL used by your health organisation, then click Open to progress to the login area for the platform.



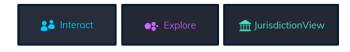
Login using the active directory credentials supplied by your organisation. These credentials are usually the same as what you would use to access key applications like your electronic medical record, health email account, etc.



## **Navigation Tips**

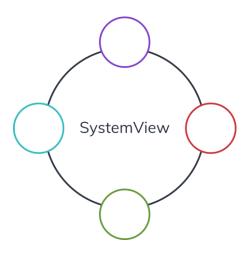
#### **Area Buttons**

Located at the top of **SystemView**. These allow for quick switching between Interact, Explore, JurisdictionView and other areas that are available for your account and organisation.



#### **Daisy Chain**

The core navigation tool in Explore that provides a methodical and structured approach to exploring the information available within SystemView. Click a Domain (e.g., Beds) to view the Component Groups and Components within.



#### **Breadcrumbs**

Located at the top-left corner of each Component page. These allow for quick navigation back to a previous point in Explore.

Beds > Ward View > Ward Overview

#### **Data Refresh Time**

Located at the top-left corner of each Component page. This indicates the data refresh time for the current component.



Data updated as at 10:09am 5 May 25

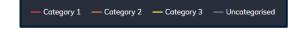
#### Filter Bar

Located at the top-left corner of each Component page. These allow for drilling down any information displayed to specific facilities, specialties, patient cohorts, etc.



#### **Chart Series**

Located beneath each chart. Clicking a series will reload the chart with the series in isolation.



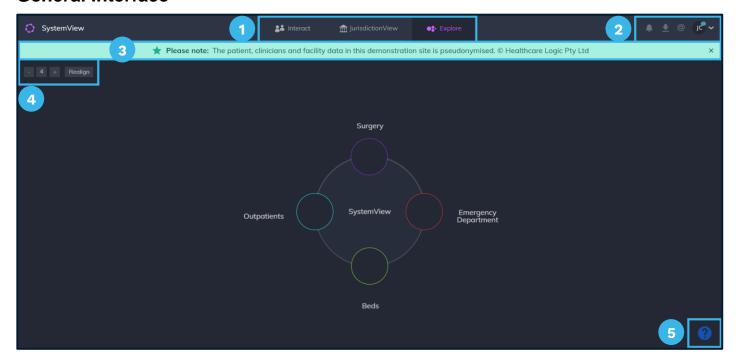
#### **Activate**



Interact with tiles such as tables and charts by clicking the purple Activate button in the top-right corner. Activation takes the tile full screen to provide enhanced interaction as well as additional features such as exporting, sharing and adding.



#### **General Interface**



#### 1. Area Buttons

Buttons to toggle between Interact, Explore, JurisdictionView and other areas that are available for your account and organisation.

#### 2. Notifications, Sharing and Account

Manage your notifications; view discussions and content shared with you; view your account settings and sign out of the platform.

#### 3. Announcement Banners

Banners published by administrators to broadcast events, alerts and issues.

#### 4. Zoom and Alignment

Controls to adjust the zoom and alignment of the Explore daisy chain.

#### 5. Help & Support

Centralised area with onboarding, eLearning, videos and support resources.

# **Exporting Data**

# **Exporting Tables**

Tables of data can be exported for further analysis and processing.



Click the Activate button, click Export, then select whether to save as a CSV or XLS file.





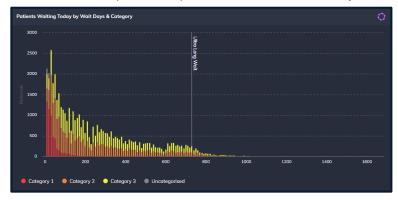






# **Exporting Charts**

Charts can be exported for presentation or further analysis and processing.



Click the Activate button, click Export, then select whether to save as a PNG image, CSV or XLS file.











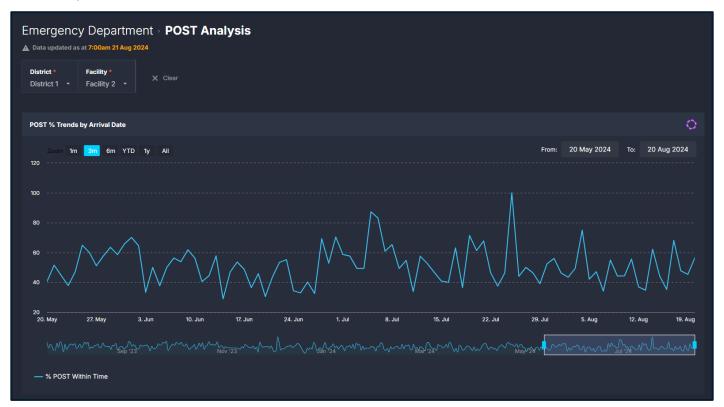




# **Emergency Department**

# **POST Analysis**

**POST Analysis** provides **Patient Off Stretcher Time (POST)** performance and other ambulance-related metrics for the preceding 13 months. **POST** is measured as the time taken from an ambulance's arrival to when the patient is offloaded. A time in excess of 30 minutes is considered a breach.

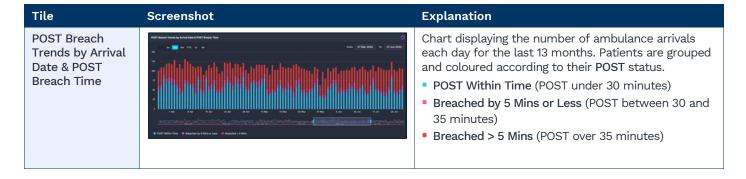


#### Interaction

The following interaction is available from the initial page of this component.

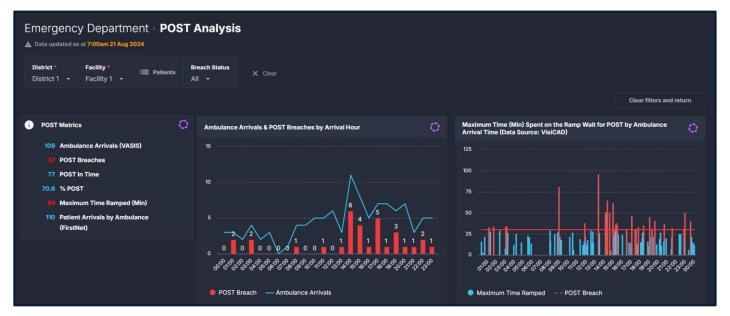






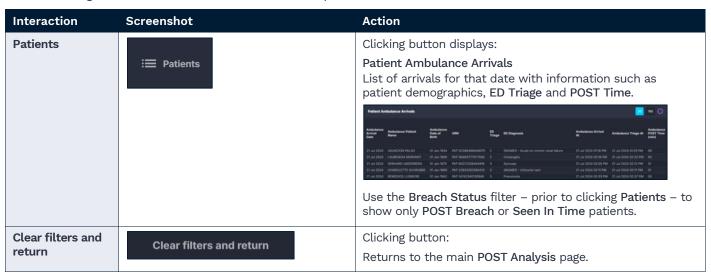
## **POST Analysis for Individual Date**

Further **POST** and ambulance-related analyses is revealed upon clicking a day on the **POST % Trends by Arrival Date** or the **POST Breach Trends by Arrival Date & POST Breach Time** charts.



#### Interaction

The following interaction is available in this component.

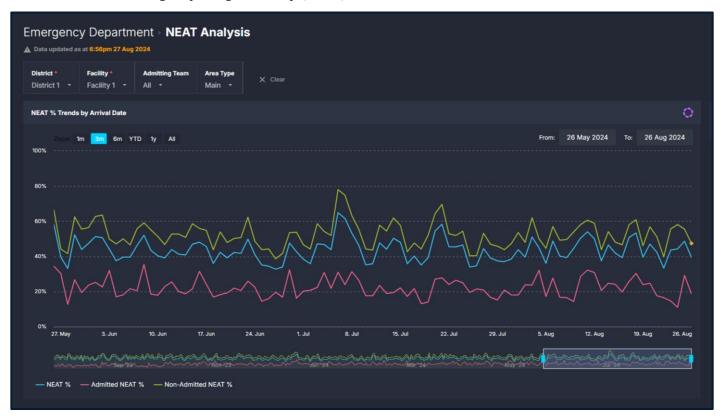


| Tile  | Screenshot   | Explanation   |
|---|--|---|
| POST Metrics  | POST Metrics  87 Ambulance Arrivals (VASIS)  21 POST Breaches  88 POST in Time  75.9 % POST  11// Maximum Time Ramped (Min)  95 Patient Arrivals by Ambulance (FirstNet)                                     | Summary of Ambulance Arrivals, POST Breaches, POST In Time, % POST and Maximum Time Ramped for the selected date. Importantly, the number of ambulance arrivals recorded in the ambulance source system and Emergency Department source system are both displayed.  |
| Ambulance<br>Arrivals & POST<br>Breaches by<br>Arrival Hour                                 | Ambulance Arrivals & POST Breaches by Arrival Hour  10  4  2  2  0  0  0  0  0  0  0  0  0  0  0   | Trendline representing the number of Ambulance Arrivals for each hour of the day.  Accompanied by columns which represent the number of POST Breaches for each hour of the day.  POST Breaches are counted in the column for the hour that the ambulance arrived.   |
| Maximum Time<br>(Min) Spent on<br>the Ramp Wait<br>for POST by<br>Ambulance<br>Arrival Time | Maximum Time (Min) Spent on the Ramp Walt for POST by Ambulance Arrival Time  100  100  Maximum Time (Min) Spent on the Ramp Walt for POST by Ambulance  ### Arrival Time    Maximum Time Ramped POST Breach | Displays all ambulance arrivals across the day with each column representing an individual arrival's POST. Any arrivals with a POST in excess of 30 minutes are coloured red and classified as a POST Breach.   |
| POST Breaches<br>by POST Time   | POST Breaches by POST Time  8 (9.2%)  13 (14.9%)  66 (75.9%)  Breached by 5 Mins or Less Breached > 5 Mins POST Within Time  | Divides total ambulance arrivals for the day by the following POST statuses:  Breached by 5 Mins or Less (POST between 30 and 35 minutes)  Breached > 5 Mins (POST over 35 minutes)  POST Within Time (POST under 30 minutes)   |
| Presentations by<br>Arrival Hour  | Presentations by Arrival Hour  10  10  10  10  10  10  10  10  10  1   | Displays the number of actual presentations to the Emergency Department for each hour of the day. There are also 3 supporting trendlines derived from analysis of historical data:  • Average Arrivals for a Similar Day The average number of expected hourly presentations, specific to weekday and season.  • Upper Control (Top 15.9% of Days) The number of expected hourly presentations for the top 15.9% busiest days.  • Lower Control (Bottom 15.9% of Days) The number of expected hourly presentations for the bottom 15.9% least busiest days.  Hours with actual arrivals greater than the Upper Control are coloured pink. |

| Tile                                   | Screenshot   | Explanation  |
|--|--|--|
| Available Beds in ED                   | Available Beds in ED  60  60  60  60  60  60  60  60  60  6  | Displays the number of available treatment spaces in the Emergency Department at 30 minute intervals throughout the day. Treatment spaces are colour coded according to the area they belong (e.g., Resus).  |
| POST Completed<br>Rate                 | FOST Completed Rate  5 (8.2%)  56 (91.8%)  Incomplete © Complete   | Divides total episodes of care (from the ambulance source system) for the day by the following statuses:  Incomplete Episodes of care not completed and closed in ambulance source system  Complete Episodes of care completed and closed in ambulance source system |
| Time from Arrival<br>to Triage by POST | Time from Arrival to Triage by POST  50  50  7  5  0  0-5  6-10  13-15   | Divides ambulance arrivals for the day by the time taken between arrival and triage (e.g., 0-5 minutes). Furthermore, arrivals are coloured <b>red</b> if they were <b>POST Breaches</b> (i.e., exceeded 30 minutes on ramp before patient was offloaded).           |
| Patients in ED by<br>Pathway & Time    | Patients in ED by Pathway & Time  60  60  60  60  CAS Ramping Treatment Area Conservation Area Conservation Area Conservation Area Conservation Area | Displays the number of patients in the Emergency Department at 30 minute intervals throughout the day. Patients are colour coded according to the area they are located within (e.g., Observation Area).   |

# **NEAT Analysis**

**NEAT Analysis** provides analytics on the Emergency Department's performance with respect to admitting, discharging or transferring patients within 4 hours of presentation. The name for this component was derived from the National Emergency Access Target (NEAT) in Australia. This component provides analysis for the preceding 13 months. This component is also referred to as **ELOS Analysis** in some jurisdictions – which stands for Emergency Length of Stay (ELOS).



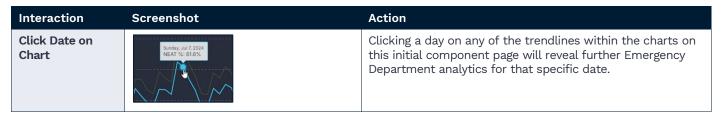
#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter         | Description  | Filter    | Description   |
|----------------|--|-----------|---|
| Admitting Team | Select Admitting Team(s) to analyse. Presentations attended by other teams and specialties will be excluded. | Area Type | Select between All, Main or Other mapped areas in the ED. |

#### Interaction

The following interaction is available from the initial page of this component.

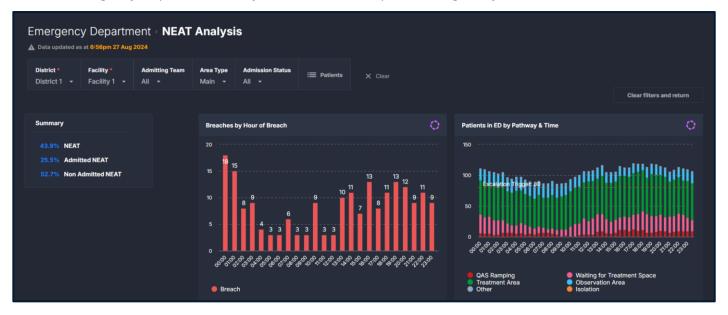


#### **Component Tiles**

#### Tile Screenshot **Explanation NEAT % Trends** Displays trendlines that represent the % of ED presentations admitted, discharged or transferred by Arrival Date within 4 hours, each day for the last 13 months. Calculations are made based on the presentations that arrived during each calendar day. The chart's timeframe can be adjusted using the slider and Zoom options. There are 3 trendlines: NEAT % % of all presentations admitted, discharged or transferred within 4 hours. Admitted NEAT % % of admitted presentations which were admitted within 4 hours. Non-Admitted NEAT% % of non-admitted presentations which were discharged or transferred within 4 hours. **NEAT % Trends** Displays trendlines that represent the % of ED presentations admitted, discharged or transferred by Discharge Date within 4 hours, each day for the last 13 months. Calculations are made based on the presentations that discharged during each calendar day. The chart's timeframe can be adjusted using the slider and Zoom options. There are 3 trendlines: NEAT % % of all presentations admitted, discharged or transferred within 4 hours. Admitted NEAT % % of admitted presentations which were admitted within 4 hours. Non-Admitted NEAT% % of non-admitted presentations which were discharged or transferred within 4 hours. Additional NEAT There are additional charts on this page which display NEAT % performance for different timeframes or % Charts specific patient cohorts. Some examples of these additional charts include NEAT % Trends by Arrival Date and Admission Status: within 1.5 hr within 1.5 hr aged over 75 ■ within 6 hr ■ within 6 hr aged over 75 within 24 hr • within 24 hr aged over 75

#### **NEAT Analysis for Individual Date**

Further Emergency Department analytics are revealed upon clicking a day on the **NEAT % Trend** charts.



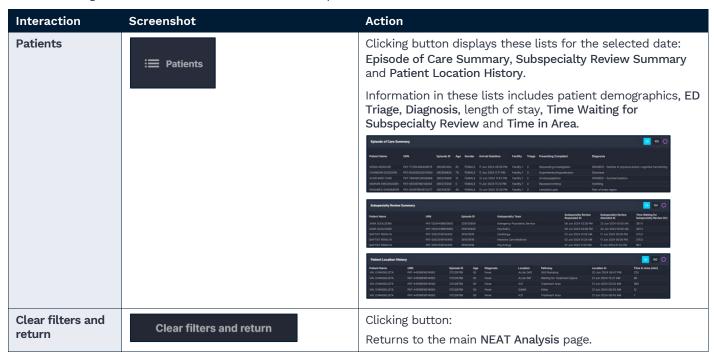
#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter         | Description  | Filter           | Description   |
|----------------|--|------------------|---|
| Admitting Team | Select Admitting Team(s) to analyse. Presentations attended by other teams and specialties will be excluded. | Admission Status | Select whether to include All presentations, Admitted presentations or Not Admitted presentations in the analytics on the current page. |
| Агеа Туре      | Select between All, Main or Other mapped areas in the ED.  |                  | analytics on the current page.  |

#### Interaction

The following interaction is available in this component.



| Tile                                | Screenshot  | Explanation   |
|-------------------------------------|---|---|
| Summary                             | Summary  43.9% NEAT  25.5% Admitted NEAT  52.7% Non Admitted NEAT   | Summary of the NEAT %, Admitted NEAT % and Non-Admitted NEAT % for presentations that arrived on this calendar date.  |
| Breaches by Hour<br>of Breach       | ## Breaches by Hour of Breach  20  55  56  67  67  67  67  67  67  67  67   | Displays the number of presentations breaching a length of stay of 4 hours in the Emergency Department. Breaches are tallied in the hour of day in which they exceeded a length of stay of 4 hours.   |
| Patients in ED by<br>Pathway & Time | Patients in ED by Pathway & Time  To  To  To  To  AS Ramping Trestment Area  Other Trestment Space  Tother  Tother  Tother  Total Trestment Space  Total Trestment Space  Total Trestment Space | Displays the number of patients in the Emergency Department at 30 minute intervals throughout the day. Patients are colour coded according to the area they are located within (e.g., Observation Area).  The chart is overlaid with an Escalation Trigger – a measure which represents a capacity threshold specific to the individual Emergency Department.   |
| Summary                             | 326 Number of Presentations 327 Expected Presentations -1 Presentations vs Expected Presentations 43.6 Maximum LoS (Hr) 3 Hours with Presentations > 1 SD Above Expected                        | Summary of the Number of Presentations and Maximum LoS for the selected date.  Analysis is also provided for the number of Expected Presentations – based on comparison with historical data – and how this compared with actual arrivals.  Also shown is the Hours with Presentations > 1 SD Above Expected, which is the number of hours that had presentation numbers greater than the top 15.9% of busiest days for that Emergency Department.  |
| Presentations by<br>Arrival Hour    | Presentations by Arrival Hour  20  20  30  9 Patients that Arrived by Arrival Hour  - Average Arrivals for a Similar Day  Control Bedton 15,614 of Days)  Lower Control Bedton 15,614 of Days)  | Displays the number of actual presentations to the Emergency Department for each hour of the day. There are also 3 supporting trendlines derived from analysis of historical data:  • Average Arrivals for a Similar Day The average number of expected hourly presentations, specific to weekday and season.  • Upper Control (Top 15.9% of Days) The number of expected hourly presentations for the top 15.9% busiest days.  • Lower Control (Bottom 15.9% of Days) The number of expected hourly presentations for the bottom 15.9% least busiest days.  Hours with actual arrivals greater than the Upper Control are coloured pink. |

| Tile  | Screenshot   | Explanation  |
|---|--|--|
| Waiting ED<br>Patients by Wait<br>Type & Time | Waiting ED Patients by Welt Type & Time  40  30  30  30  40  40  40  40  40  40  | Displays the number of patients at each 30 minute interval throughout the day that were:  Waiting for a Subspecialty Review Patients waiting for a review by a specialty team external to the Emergency Department.  Waiting for an Inpatient Admission Patients waiting for admission to an inpatient bed.  Waiting to be Seen Patients waiting for a review by a treating clinician in the Emergency Department. |
| NEAT by<br>Admitting Team                     | ######################################   | Displays the number of inpatient admissions for the selected date by <b>Admitting Team</b> (e.g., Respiratory). Admissions that breached 4 hours length of the stay in the Emergency Department are coloured <b>red</b> .  |
| Patients by<br>Diagnosis and<br>NEAT Status   | Francis Internal Control Trade    Control Trade   Control Trad | Displays the number of presentations for the selected date by Diagnosis (e.g., Chest Pain). Patients that breached hours length of the stay in the Emergency Department are coloured red.  |

## **Department Now**

#### **Situation Report**

**Situation Report** provides a comprehensive and near real-time current state assessment of the Emergency Department. The metrics and analytics provided includes the number of total presentations, the number of patients breaching 4 hours length of stay and up-to-date ambulance activity.



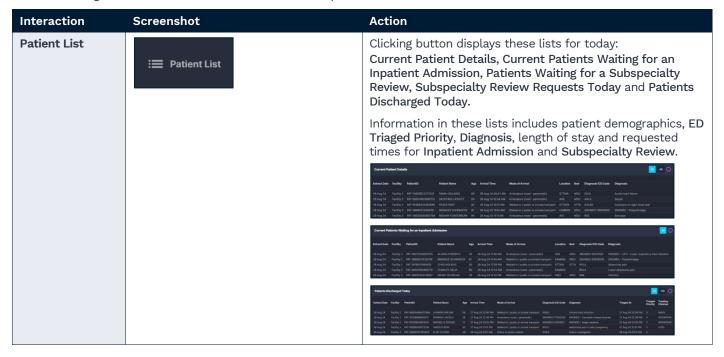
#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter    | Description   | Filter | Description  |
|-----------|---|--------|--|
| Area Type | Select between All, Main or Other mapped areas in the ED. | Area   | Select <b>Area</b> (s) within the ED such as Triage, Acute and Minors. |

#### Interaction

The following interaction is available in this component.



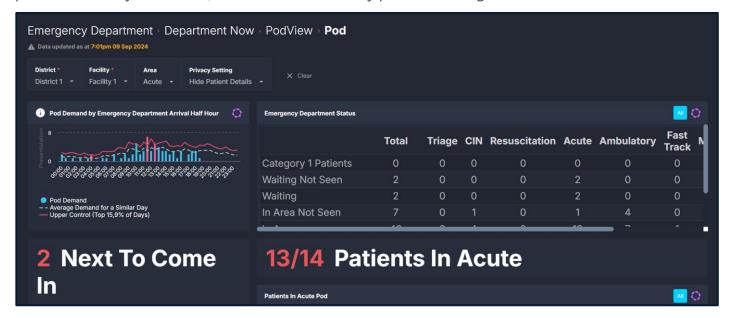
| Tile                                      | Screenshot  | Explanation   |
|---|---|---|
| Department<br>Overview                    | 70 Current Patients 174 Presentations Today 138 Expected Presentations 36 Presentations Today vs Expected Presentations 6 Presentations Expected Next Hour 79 Patient Arrivals by Ambulance Today 66.7 NEAT % Today 140 ED % of Occupancy (All Areas) | Summary of today's key metrics for the Emergency Department. Analytics provided include the number of Current Patients, Presentations Today and Arrivals by Ambulance Today.  A forecast is also provided for the number of Presentations Expected Next Hour. This is produced using 2 years of historical data and is specific to the day of week and current season.  Also shown is:  NEAT % Today  The % of patients admitted, discharged or transferred so far today, within 4 hours of presentation.  ED % of Occupancy  Calculated by dividing the number of Current Patients by the ED Bed Capacity Metric – the available capacity of the Emergency Department that can be adjusted in Beds > Bed Capacity Monitor. |
| Presentations by<br>Arrival Hour          | Presentations by Arrival Hour  Description of the Arrival Hour  Average Arrivals for a Similar Day  Upper Central (floritom 15.9% of Days)  Lower Control (Bottom 15.9% of Days)  | Displays the number of actual presentations to the Emergency Department for each hour of the day. There are also 3 supporting trendlines derived from analysis of historical data:  • Average Arrivals for a Similar Day The average number of expected hourly presentations, specific to weekday and season.  • Upper Control (Top 15.9% of Days) The number of expected hourly presentations for the top 15.9% busiest days.  • Lower Control (Bottom 15.9% of Days) The number of expected hourly presentations for the bottom 15.9% least busiest days.  Hours with actual arrivals greater than the Upper Control are coloured pink.   |
| Patients in ED by<br>Pathway & Time       | Patients in ED by Pathway & Time  100  100  100  100  100  100  100  1  | Displays the number of patients in the Emergency Department at 30 minute intervals throughout the day. Patients are colour coded according to the area they are located within (e.g., Observation Area).  The chart is overlaid with an Escalation Trigger – a measure which represents a capacity threshold specific to the individual Emergency Department.   |
| Current Patients<br>by Triage<br>Category | Current Patients by Triage Category  0 (0.0%) 12 (17.1%) 13 (18.6%) 44 (62.9%)  1   | Displays the number and proportion of patients currently within the Emergency Department by their assigned Triage Category:  Category 1 Category 2 Category 3 Category 4 Not Defined (i.e., no data or not yet triaged)   |

Tile Screenshot **Explanation** Emergency Displays an overview of the areas and treatments Department spaces currently occupied within the Emergency Patient Flow Department. Each area (e.g., Acute) consists of dots which represent treatment spaces. They are colour coded to show these statuses: Patient Waiting In Time Not in waiting room and has a length of stay less than 3 hours. LoS Breach Risk Between 3 hours and 4 hours length of stay. LoS Breach Exceeded 4 hours length of stay. Clinical Risk Not in waiting room and has exceeded 8 hours length of stay. Seen In Time In waiting room and seen within timeframe for Triage Category. Seen In Time Risk In waiting room and close to breaching timeframe to be seen for Triage Category. Category 1-2 - N/A Category 3 - not seen within 20 minutes Category 4 - not seen within 45 minutes Category 5 – not seen within 60 minutes Seen in Time Breach In waiting room and not seen within timeframe for Triage Category. Available Space Currently unoccupied treatment space. Empty Special Purpose Unoccupied treatment space only available for specific assessment and/or treatment. Tip: Hover over an individual dot to see details such as patient name, ID and time in ED/area. Click a dot to view more information, such as pending requests for subspecialty review(s) or inpatient admission. Available Beds in Displays the number of available treatment spaces in the Emergency Department at 30 minute intervals throughout the day. Treatment spaces are colour coded according to the area they belong (e.g., Resus). **Patients Waiting** Summary of the number of current patients waiting for further care or management such as to be Seen by a Doctor, Subspecialty Review or Inpatient Admission.

| Tile  | Screenshot  | Explanation   |
|---|---|---|
| Breaches by Hour<br>of Breach   | Breaches by Hour of Breach  | Displays the number of presentations breaching a length of stay of 4 hours in the Emergency Department. Breaches are tallied in the hour in which they exceeded a length of stay of 4 hours.  |
| Waiting ED Patients by Wait Type & Time   | Waiting ED Patients by Wait Type & Time  40  20  30  30  30  30  30  40  40  40  40  4  | Displays the number of patients at each 30 minute interval throughout the day that are:  Waiting for a Subspecialty Review Patients waiting for a review by a specialty team external to the Emergency Department.  Waiting for an Inpatient Admission Patients waiting for admission to an inpatient bed.  Waiting to be Seen Patients waiting for a review by a treating clinician in the Emergency Department.  In Waiting Rooms Waiting to be Seen by a Doctor Patients in a waiting area that are waiting for a review by an Emergency Department doctor.  Waiting to be Seen by a Doctor Patients waiting for a review by an Emergency Department doctor. |
| Ambulances en<br>Route by<br>Estimated Time<br>to Arrival                           | Ambulances en Route by Estimated Time to Arrival  19704145   6318   | Displays ambulances that are currently enroute to the Emergency Department. Each incoming ambulance is represented by a bar and accompanied by its unit number and estimated time of arrival.  This chart is produced using data from the ambulance source system.  |
| Ambulance<br>Ramped Patients<br>by Incident & Unit<br>Number & Time<br>Ramped (Min) | Ambulance Ramped Patients by Incident & Unit Number & Time Ramped (Min)  19703616   6501  19703788   6545  22  19704046   6536  22  19704026   6521  9  19703530   6LIM10 | Displays ambulances that are currently ramped at the Emergency Department. Each ambulance is represented by a bar and accompanied by its unit number and number of minutes ramped.  Ambulances ramped for greater than 30 minutes are coloured red.  This chart is produced using data from the ambulance source system.  |
| ED Patient<br>Arrivals via<br>Ambulance by<br>Triage Category<br>and Arrival Hour   | ED Patient Arrivats via Ambutance by Triage Category and Arrival Hour   | Displays the number of ambulance arrivals to the Emergency Department for each hour of the day. Arrivals are colour coded according to the patient's eventual Triage Category.  |

#### **PodView**

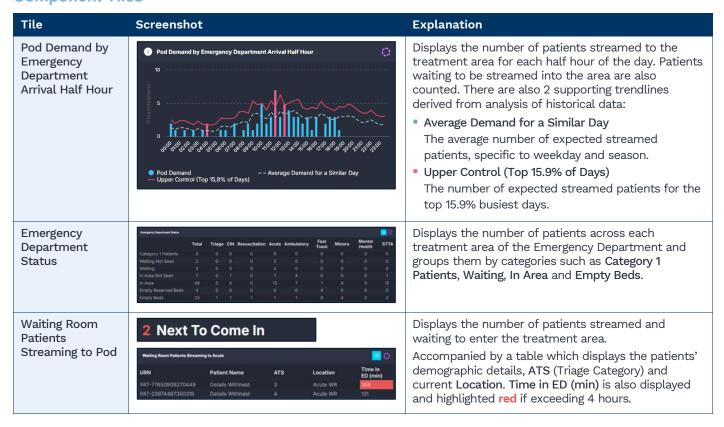
**PodView** provides near real-time analysis for individual treatment areas within the Emergency Department. The information provided includes the area's activity for the current date, details of the patients currently in the area, as well as details of any patients waiting to be streamed into the area.

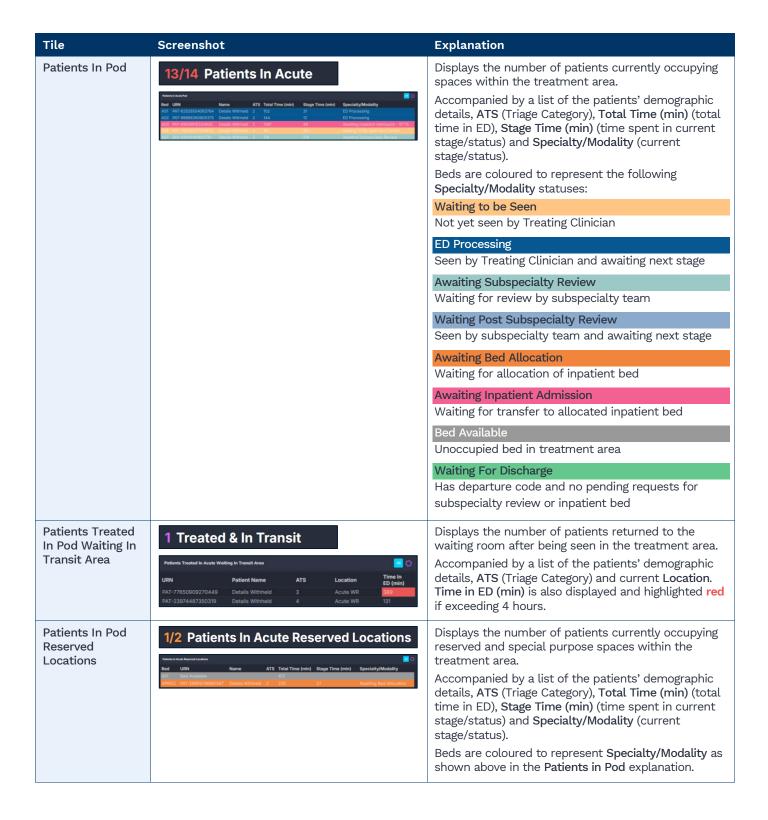


#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter | Description  | Filter          | Description   |
|--------|--|-----------------|---|
| Area   | Select <b>Area</b> (s) within the ED such as Triage, Acute and Minors. | Privacy Setting | Select to Show All Details (reveal names) or to Hide Patient Details. |





#### **Subspecialty Reviews**

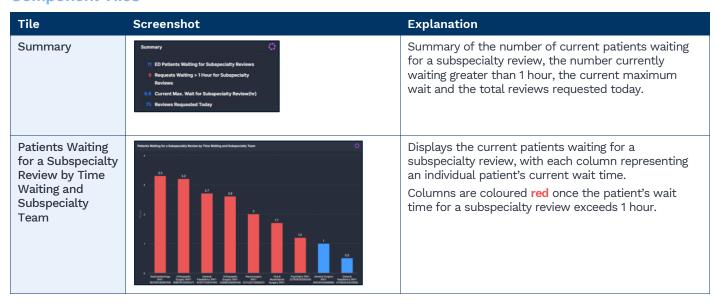
**Subspecialty Reviews** provides near real-time analysis of the current patients in the Emergency Department waiting for a subspecialty review. The information provided includes the times each patient has been waiting and the subspecialty teams that have been requested.



#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter               | Description  | Filter                       | Description  |
|----------------------|--|------------------------------|--|
| Area                 | Select Area(s) within the ED such as Triage, Acute and Minors. | Subspecialty<br>Review Group | Select between All, Main or Other mapped subspecialty teams in the ED.                               |
| Subspecialty<br>Team | Select a single or multiple Subspecialty Team(s).              |                              | Allied Health teams are an example of subspecialty teams that are sometimes mapped as <b>Other</b> . |



| Tile  | Screenshot   | Explanation  |
|---|--|--|
| Patients Waiting<br>for a Subspecialty<br>Review by<br>Subspecialty<br>Team | Patients Walting for a Subspecialty Review by Subspecialty Team  Connect Prediction University Team  Connect Prediction University Subspecialty Team  2 Subspecialty Subspecialty Team  1 Subspecialty Subspecialty Team  1 Subspecialty Subspecialty Team  1 Subspecialty Subspecialty Team  1 Subspecialty Team  2 Subspecialty Te | Displays the number of current pending subspecialty reviews for each requested subspecialty team.  |
| Patients Waiting<br>for a Subspecialty<br>Review by Area                    | Patients Waiting for a Subspecialty Review by Area  Acute Chidmen ED Chidmen's STIA Mental Health Minors Resuscitation 1 2 3 4   | Displays the number of current pending subspecialty reviews in each area of the Emergency Department.  Segments are coloured red once a patient's wait time for a subspecialty review exceeds 1 hour.  |
| Patients Waiting<br>for a Subspecialty<br>Review by Time                    | Process Maching the a Multiprociently Services by Them  20  21  31  32  32  33  34  34  35  35  35  35  35  35  35   | Displays the number of patients waiting for a subspecialty review for each hour of the day.  There are 2 series displayed:  Patients Waiting The total number of patients each hour waiting for a subspecialty review.  Patients Waiting > 1 Hour The number of patients each hour with a subspecialty review wait time greater than 1 hour. |
| Patients Waiting<br>for a Subspecialty<br>Review                            | Administration for School Conference of School Conf | Displays the details of the current patients waiting for a subspecialty review. Information includes patient demographics, Diagnosis, Subspecialty Team, Location and Time in ED.  Time Waiting for a Subspecialty Review Request (hr) is displayed and highlighted red if exceeding 1 hour.   |

#### **Waiting for Admission**

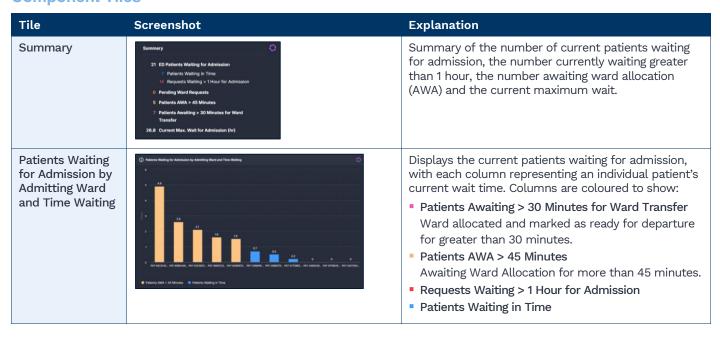
**Waiting for Admission** provides near real-time analysis of the current patients in the Emergency Department waiting for inpatient admission. The information provided includes the times each patient has been waiting and the admitting wards that have been requested.



#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

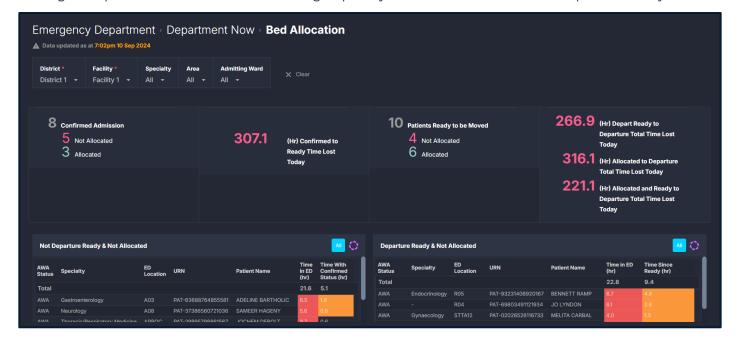
| Filter    | Description   | Filter         | Description   |
|-----------|---|----------------|---|
| Specialty | Select a single or multiple admitting<br>Specialties. This is the specialty of the<br>requested admitting ward. | Admitting Ward | Select a single or multiple Admitting Ward(s). Analysis of patients waiting for the selected ward(s) will be shown. |
| Area      | Select <b>Area</b> (s) within the ED such as Triage, Acute and Minors.  |                |   |



#### Tile Screenshot **Explanation** Displays the number of current patients waiting for **Patients Waiting** for Admission & admission for each Admitting Ward. Also shown is the Available Beds by number of Available Beds (if any) for each ward. **Admitting Ward Patients Waiting** Displays the number of patients waiting for admission for Admission by for each hour of the day. Time There are 2 series displayed: Patients Waiting The total number of patients waiting for admission each hour. Patients Waiting > 1 Hour The number of patients waiting for admission each hour with a wait time greater than 1 hour. Patients Waiting Displays the number of patients waiting for admission for Admission by for each hour of the day. Time and Status There are 3 additional series displayed: Pending Ward Requests The number of patients waiting for admission each hour that do not have a completed bed request. Patients AWA > 45 Minutes The number of patients waiting for admission each hour that have been Awaiting Ward Allocation for more than 45 minutes. Patients Awaiting > 30 Minutes for Ward Transfer The number of patients waiting for admission each hour that have a ward allocated and have been ready for departure for more than 30 minutes. **Patients Waiting** List of the current patients waiting for admission. for Admission Information includes patient demographics, Admitting Ward, Diagnosis, Location and Time in ED. Time Awaiting Ward Allocation/AWA (min) is displayed and highlighted yellow if exceeding 45 minutes. Time Waiting for Ward Transfer (min) is displayed and highlighted pink if exceeding 30 minutes. Time Waiting for Admission (hr) is displayed and highlighted red if exceeding 1 hour.

#### **Bed Allocation**

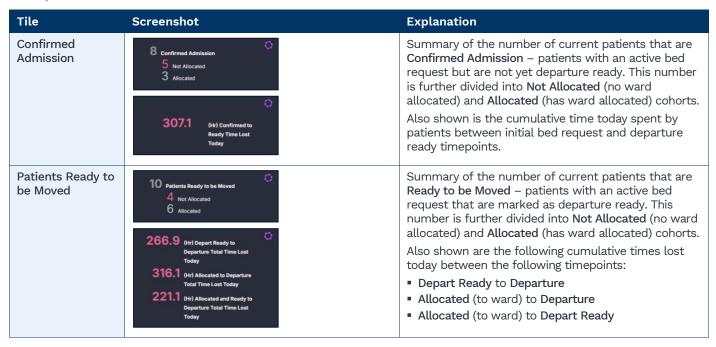
**Bed Allocation** provides near real-time analysis of the current patients in the Emergency Department waiting for inpatient admission. Patients are grouped by their ward allocation and departure ready states.



#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

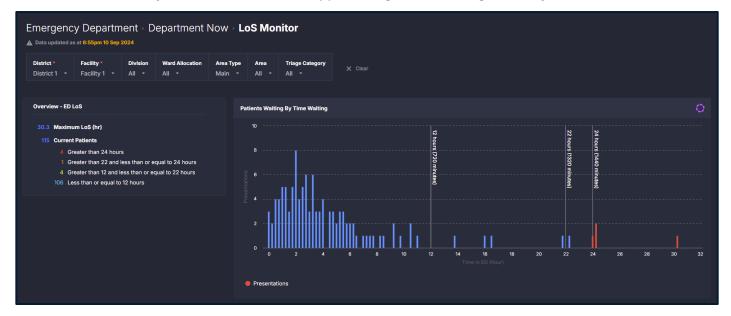
| Filter    | Description   | Filter         | Description   |
|-----------|---|----------------|---|
| Specialty | Select a single or multiple admitting Specialties. This is the specialty of the requested admitting ward. | Admitting Ward | Select a single or multiple Admitting Ward(s). Analysis of patients waiting for the selected ward(s) will be shown. |
| Area      | Select <b>Area</b> (s) within the ED such as Triage, Acute and Minors.                                    |                |   |





#### **LoS Monitor**

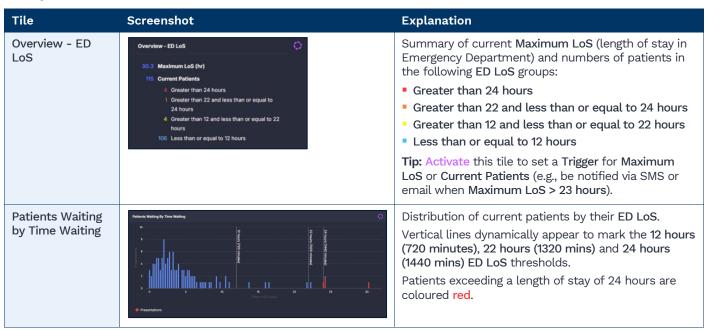
**LoS Monitor** provides a near real-time view of the current patients in the Emergency Department and clear indications if any have breached or are approaching 24 hours length of stay (LoS).



#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter          | Description  | Filter          | Description  |
|-----------------|--|-----------------|--|
| Division        | Select <b>Division</b> (s) which patients are allocated for admission. | Area Type       | Select between All, Main or Other mapped areas in the ED.              |
| Ward Allocation | Select Ward(s) which patients are allocated for admission.             | Area            | Select <b>Area</b> (s) within the ED such as Triage, Acute and Minors. |
|                 |  | Triage Category | Select Triage Category(s).   |



#### Tile Screenshot **Explanation** Summary of current Maximum Bed Request (hr) Overview - Bed (admission wait time) and numbers of patients in the Request Maximum Bed Request (hr) following tiers of admission wait times: Current Bed Requests 3 Greater than 16 hours Greater than 16 hours Greater than 10 and less than or equal to 16 Greater than 10 and less than or equal to 16 hours 5 Greater than 4 and less than or equal to 10 er than 4 and less than or equal to 10 hours 9 Less than or equal to 4 hours Less than or equal to 4 hours Tip: Activate this tile to set a Trigger for Maximum Bed Request Hours or Current Bed Requests. Patients By Ward Displays the number of current patients waiting for Allocation & Time admission by each Ward Allocation. Waiting Segments are coloured as per the patients' ED LoS: Greater than 24 hours Greater than 22 and less than or equal to 24 hours Greater than 12 and less than or equal to 22 hours Less than or equal to 12 hours **Current Patient** List of current patients in the Emergency Department Details with details such as LoS, Ward Allocation, Diagnosis, Location and Triage Category. The list is sorted by LoS in descending order (longest LoS at top). LoS (hrs) and LoS (mins) are highlighted to represent the patient's current LoS group: > 22 hours and ≤ 24 hours > 12 hours and ≤ 22 hours ≤ 12 hours

#### **Discharge Situation Report**

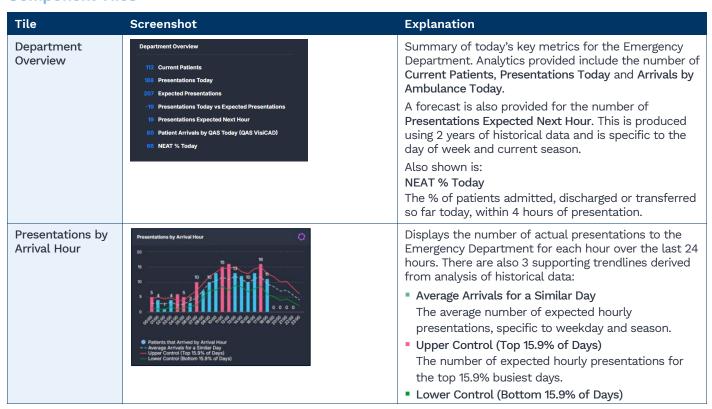
**Discharge Situation Report** provides a near real-time summary of Emergency Department discharges compared to what is required to maintain patient flow. Supporting analytics highlight hourly discharge trends, deficits, and upcoming discharge needs.



#### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter    | Description   | Filter | Description  |
|-----------|---|--------|--|
| Area Type | Select between All, Main or Other mapped areas in the ED. | Area   | Select Area(s) within the ED such as Triage, Acute and Minors. |



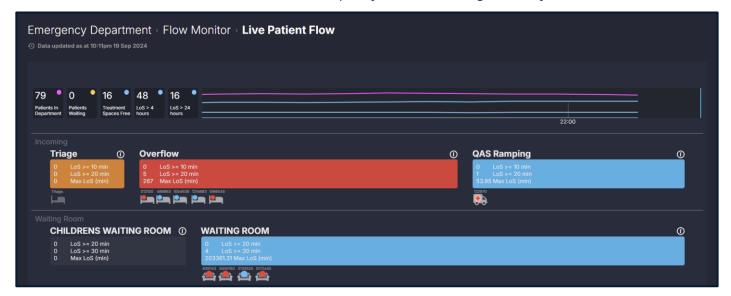
| Tile   | Screenshot   | Explanation  |
|--|--|--|
|  |  | The number of expected hourly presentations for the bottom 15.9% least busiest days.   |
|  |  | Hours with actual arrivals greater than the Upper Control are coloured pink.   |
| Total Patients in<br>ED by Time                | Total Palicella in IC day Time  10  10  10  10  10  10  10  10  10  1  | Displays the total number of patients in the Emergency Department for each hour of the day. There are also 3 supporting trendlines derives from analysis of historical data:  • Average Total for a Similar Day The average total number of expected patients in ED, specific to weekday and season.  • Upper Control (Top 15.9% of Days) The total number of expected patients in the ED for the top 15.9% busiest days.  • Lower Control (Bottom 15.9% of Days) The total number of expected patients in the ED for the bottom 15.9% least busiest days.   |
| Department<br>Departures<br>Overview           | Department Departures Overview  220 Departures Last 24 Hours 280 Required Departures for Flow Last 24 Hours -40 Departures Last 24 Hours vs. Required for Flow 18 Required Base Discharges Remaining this Hour 0 Total Required Discharges this Hour 17 Current Patients Waiting for Inpatient Admission (% of Required (0.0%) Discharges this Hour)   | Provides a summary of key discharge metrics from the Emergency Department over the past 24 hours. It displays the actual number of Patient Departures, compares this to the Required Departures needed to maintain Patient Flow, and highlights any variance.  Also included are the number of Required Base Discharges remaining this hour and the current number of ED patients Awaiting Inpatient Admission, indicating how current performance aligns with flow needs.   |
| Discharge vs.<br>Required by<br>Discharge Hour | Discharges vs. Required by Discharge Hoor  To a service of the ser | Displays the number of Emergency Department discharges for each hour over the past 24 hours. It includes three supporting trendlines based on historical analysis, showing the number of discharges typically required each hour to maintain patient flow:  Average Discharges for a Similar Day The average number of expected hourly discharges, specific to weekday and season.  Upper Control (Top 15.9% of Days) The number of expected hourly discharges for the top 15.9% busiest days.  Lower Control (Bottom 15.9% of Days) The number of expected hourly discharges for the bottom 15.9% least busiest days.  Projected discharges required over the next 4 hours are shown in grey. Hours where discharges fall below the lower control threshold (based on the lowest 15.9% of similar days) are flagged as deficit discharges and highlighted in red. |

#### Tile Screenshot **Explanation** Cumulative This chart shows how actual Emergency Department Discharges vs. discharges, compare cumulatively against the number Cumulative of discharges required to maintain patient flow over Required the last 24 hours. It also shows the number of patients currently Discharges to Maintain Flow by waiting for an inpatient admission at each hour. Hour Any gap where actual discharges fall below required discharges indicates a deficit and may contribute to tures Output Deficit Required Departures rising inpatient demand and ED congestion.

#### **Flow Monitor**

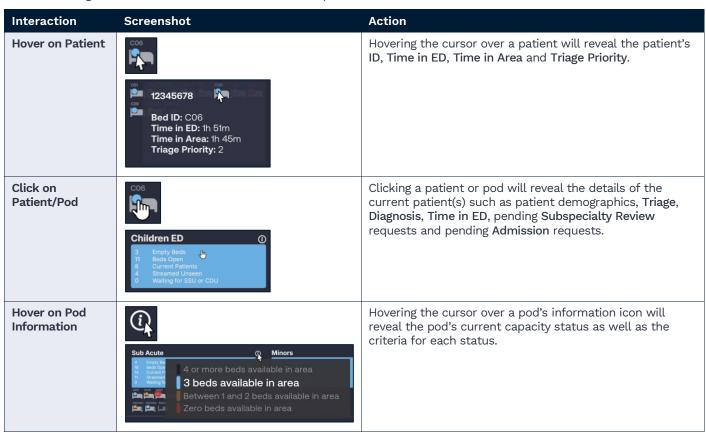
#### **Live Patient Flow**

**Live Patient Flow** provides a near real-time overview of the Emergency Department. Information available from this component includes current patient locations, current area occupancy, patient movements between areas, as well as visual indicators for capacity issues and length of stay breaches.



#### Interaction

The following interaction is available in this component.



# **Component Elements**

| Element                  | Screenshot   | Explanation  |
|--------------------------|--|--|
| Summary                  | 80 0 16 49 16  Patients In Department Waiting Spaces Free hours hours  | Summary of the current number of Patients in Department, Patients Waiting, Treatment Spaces Free, patients with a LoS > 4 hours and patients with a LoS > 24 hours.  |
| Timeline                 | 22:00  | Displays how the <b>Summary</b> metrics outlined above have trended for the last 1-2 hours.  |
| ED Pathway               | Children ED  2 Empty Beds 11 Beds Open 9 Current Patients 4 Streamed Unseen 0 Waiting for SSU or CDU  0 Waiting for SSU or CDU  0 Waiting for SSU or CDU | The pathway in the Emergency Department which the pod or treatment area is mapped to (e.g., Resuscitation in Treatment Area, Triage in Incoming).  |
| Pod or Treatment<br>Area | Acute  0 Emply Bads  14 Beds Open  14 Current Patients  0 Streamed Unseen  0 Walking for SSU or CDU  | A pod or treatment area (e.g., Acute, Waiting Room) in<br>the Emergency Department which contains treatment<br>spaces such as chairs, trolleys and beds.   |
| Patient or Bed           | STTA09 123456 987654 STTA01  | A patient or treatment space (i.e., chair, trolley or bed) within the Emergency Department. The graphic will be greyed out if the space is currently unoccupied.  Patients in Waiting Rooms are marked with a tick once they have been seen. |
|                          |  | Patients in Treatment Areas and Observation Areas are colour coded according to the following length of stay criteria:   |
|                          |  | • 0-3 hours  |
|                          |  | • 3-4 hours  |
|                          |  | • > 4 hours  |
|                          |  | • > 8 hours – the patient's dot will pulse red   |

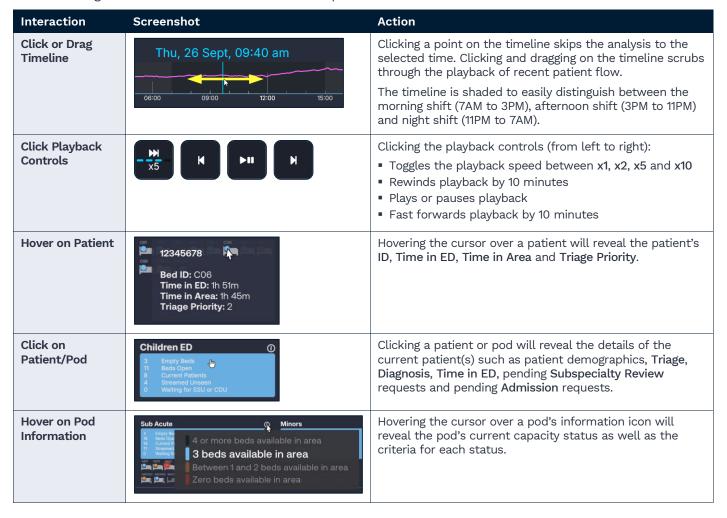
#### **Recent Patient Flow**

**Recent Patient Flow** provides an activity overview of the Emergency Department that can be rewound up to 24 hours into the past. This component enables detailed playback and analysis of recent patient movements in the Emergency Department. Information available from this component includes patient locations, area occupancy, patient movements between areas, as well as visual indicators for capacity issues and length of stay breaches.



#### Interaction

The following interaction is available in this component.



# **Component Elements**

| Element                  | Screenshot   | Explanation  |
|--------------------------|--|--|
| Summary                  | 68 1 20 Patients In Department Waiting Treatment Spaces Free   | Summary of the number of Patients in Department, Patients Waiting and Treatment Spaces Free for the selected timepoint.  |
| Timeline                 | Thu, 26 Sept, 09:30 am   | Displays how the Summary metrics outlined above have trended for the recent 24 hour period.  |
| ED Pathway               | Children ED  2 Empty Beds 11 Beds Open 9 Current Patients 4 Streamed Unseen 0 Waiting for SSU or CDU  2 Empty Beds 13 Beds Open 11 Current Patients 0 Streamed Unseen 0 Waiting for SSU or CDU | The pathway in the Emergency Department which the pod or treatment area is mapped to (e.g., Resuscitation in Treatment Area, Triage in Incoming).                |
| Pod or Treatment<br>Area | Acute  0 Empty Beds 14 Beds Open 14 Current Patients 0 Streamed Unseen 0 Waiting for SSU or CDU  | A pod or treatment area (e.g., Acute, Waiting Room) in<br>the Emergency Department which contains treatment<br>spaces such as chairs, trolleys and beds.         |
| Patient or Bed           | STTA09 123456 987654 STTA01  | A patient or treatment space (i.e., chair, trolley or bed) within the Emergency Department. The graphic will be greyed out if the space is currently unoccupied. |
|                          |  | Patients in Waiting Rooms are marked with a tick once they have been seen.   |
|                          |  | Patients in Treatment Areas and Observation Areas are colour coded according to the following length of stay criteria:   |
|                          |  | • 0-3 hours  |
|                          |  | • 3-4 hours  |
|                          |  | <ul><li>&gt; 4 hours</li><li>&gt; 8 hours – the patient's dot will pulse red</li></ul>   |
|                          |  | - 7 5 Hours and panettes dot will pulse red  |

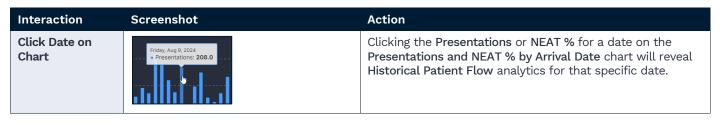
#### **Historical Patient Flow**

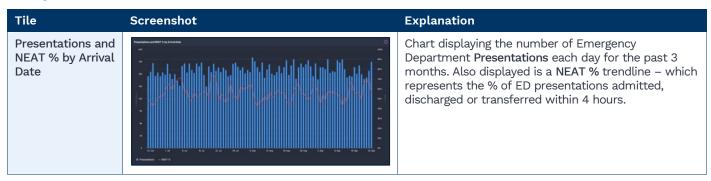
**Historical Patient Flow** enables detailed playback and analysis of patient movements in the Emergency Department for any day within the past 3 months. Information available from this component includes patient locations, area occupancy, patient movements between areas, as well as visual indicators for capacity issues and length of stay breaches.



### Interaction

The following interaction is available from the initial page of this component.





## **Historical Patient Flow for Individual Date**

Replayable **Historical Patient Flow** analytics is revealed upon clicking a day on the **Presentations and NEAT % by Arrival Date** chart.



## **Interaction**

| Interaction                | Screenshot   | Action   |
|----------------------------|--|--|
| Clear filters and return   | Clear filters and return   | Clicking button: Returns to the main <b>Historical Patient Flow</b> page.  |
| Click or Drag<br>Timeline  | Thu, 26 Sept, 09:40 am   | Clicking a point on the timeline skips the analysis to the selected time. Clicking and dragging on the timeline scrubs through the playback of recent patient flow.  The timeline is shaded to easily distinguish between the morning shift (7AM to 3PM), afternoon shift (3PM to 11PM) and night shift (11PM to 7AM). |
| Click Playback<br>Controls | <u>₩</u>   | Clicking the playback controls (from left to right):  Toggles the playback speed between x1, x2, x5 and x10 Rewinds playback by 10 minutes Plays or pauses playback Fast forwards playback by 10 minutes   |
| Hover on Patient           | Bed ID: C06 Time in ED: 1h 51m Time in Area: 1h 45m Triage Priority: 2                               | Hovering the cursor over a patient will reveal the patient's ID, Time in ED, Time in Area and Triage Priority.   |
| Click on<br>Patient/Pod    | Children ED  3 Empty Beds 11 Beds Open 8 Current Patients 4 Streamed Unseen 0 Walting for SSU or CDU | Clicking a patient or pod will reveal the details of the current patient(s) such as patient demographics, Triage, Diagnosis, Time in ED, pending Subspecialty Review requests and pending Admission requests.  |

| Interaction                 | Screenshot   | Action   |
|-----------------------------|--|--|
| Hover on Pod<br>Information | Sub Acute  4 or more beds available in area  3 beds available in area  Between 1 and 2 beds available in area  Zero beds available in area | Hovering the cursor over a pod's information icon will reveal the pod's current capacity status as well as the criteria for each status. |

# **Component Elements**

| Element                  | Screenshot   | Explanation  |
|--------------------------|--|--|
| Summary                  | 68 1 20 Patients In Department Waiting Treatment Spaces Free   | Summary of the number of Patients in Department, Patients Waiting and Treatment Spaces Free for the selected timepoint.  |
| Timeline                 | Thu, 26 Sept, 09:30 am   | Displays how the Summary metrics outlined above have trended for the recent 24 hour period.  |
| ED Pathway               | Children ED  2 Empty Beds 11 Beds Open 9 Current Patients 4 Streamed Unseen 0 Waiting for SSU or CDU  12 Empty Beds 13 Beds Open 11 Current Patients 10 Streamed Unseen 10 Waiting for SSU or CDU  11 Current Patients 12 Empty Beds 13 Beds Open 14 Current Patients 15 Streamed Unseen 16 Waiting for SSU or CDU | The pathway in the Emergency Department which the pod or treatment area is mapped to (e.g., Resuscitation in Treatment Area, Triage in Incoming).  |
| Pod or Treatment<br>Area | Acute  0 Empty Bots 14 Bots Open 15 Streamed University 0 Streamed University 0 Washing for SSU or CDU   | A pod or treatment area (e.g., Acute, Waiting Room) in<br>the Emergency Department which contains treatment<br>spaces such as chairs, trolleys and beds.   |
| Patient or Bed           | STTA09 123456 987654 STTA01  | A patient or treatment space (i.e., chair, trolley or bed) within the Emergency Department. The graphic will be greyed out if the space is currently unoccupied.  Patients in Waiting Rooms are marked with a tick once they have been seen. |
|                          |  | Patients in Treatment Areas and Observation Areas are colour coded according to the following length of stay criteria:   |
|                          |  | • 0-3 hours  |
|                          |  | • 3-4 hours  |
|                          |  | <ul><li>&gt; 4 hours</li><li>&gt; 8 hours – the patient's dot will pulse red</li></ul>   |

## **Trends**

# **Demand & Activity**

**Demand & Activity** provides a comprehensive set of retrospective Emergency Department metrics and analytics, including total presentations, POST % performance, NEAT % performance and the number of patients breaching 4 hours length of stay for each day over the past 13 months.



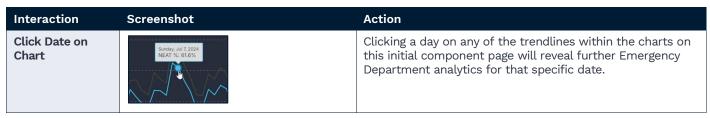
# **Filtering**

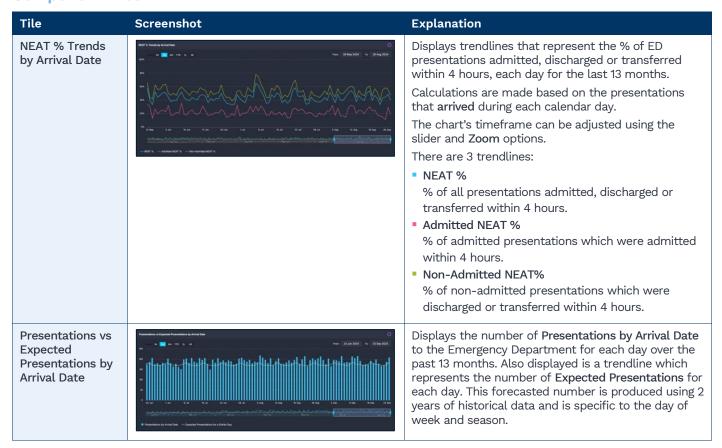
The following noteworthy options are available in this component's Filter Bar:

| Filter    | Description   |
|-----------|---|
| Area Type | Select between All, Main or Other mapped areas in the ED. |

### Interaction

The following interaction is available from the initial page of this component.





# **Demand & Activity for Individual Date**

Further date-specific analytics are revealed upon clicking a day on the **NEAT % Trends by Arrival Date** or the **Presentations vs Expected Presentations by Arrival Date** charts.



# **Filtering**

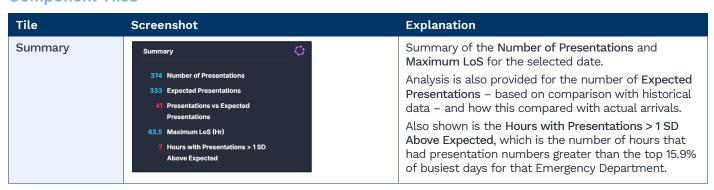
The following noteworthy options are available in this component's Filter Bar:

| Filter    | Description   | Filter           | Description   |
|-----------|---|------------------|---|
| Area Type | Select between All, Main or Other mapped areas in the ED. | Admission Status | Select whether to include All presentations, Admitted presentations or Not Admitted presentations in the analytics on the current page. |
| Age Group | Select between All, Adult or Paediatric age groups.       | NEAT             | Select between All, Breach (ED LoS over 4 hours) or Seen in Time cohorts.   |

#### Interaction

The following interaction is available in this component.

| Button                   | Screenshot               | Action   |  |  |
|--------------------------|--------------------------|--|--|--|
| Patients                 | : <b>≡</b> Patients      | Clicking button displays these lists for the selected date:<br>Episode of Care Summary, Subspecialty Review Summary<br>and Patient Location History.   |  |  |
|                          |                          | Information in these lists includes patient demographics, ED Triage, Diagnosis, length of stay, Time Waiting for Subspecialty Review and Time in Area.   |  |  |
|                          |                          | Falcold of Care Sciences 2  Police Name  UNIX Space D Apr Science Annual Science Police Name Annual Science Name Annua |  |  |
|                          |                          |  |  |  |
|                          |                          | Prince Location Intelligent Conference   10  |  |  |
| Clear filters and return | Clear filters and return | Clicking button: Returns to the main <b>Demand &amp; Activity</b> page.  |  |  |

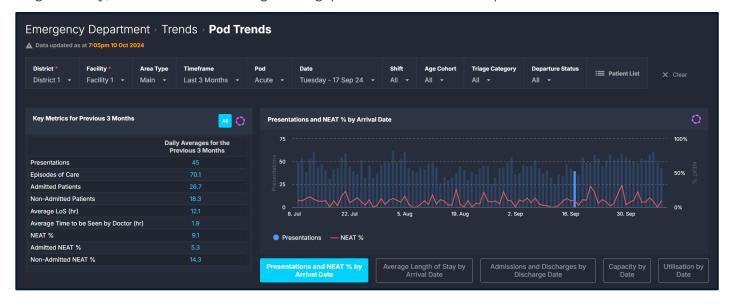


| Tile                                    | Screenshot   | Explanation  |
|---|--|--|
| Presentations by<br>Arrival Hour        | Presentations by Arrival Hour  70  70  70  70  70  71  72  73  74  75  76  76  77  78  78  78  78  78  78  78  | Displays the number of actual presentations to the Emergency Department for each hour of the day. There are also 3 supporting trendlines derived from analysis of historical data:  • Average Arrivals for a Similar Day  The average number of expected hourly presentations, specific to weekday and season.  • Upper Control (Top 15.9% of Days)  The number of expected hourly presentations for the top 15.9% busiest days.  • Lower Control (Bottom 15.9% of Days)  The number of expected hourly presentations for the bottom 15.9% least busiest days.  Hours with actual arrivals greater than the Upper Control are coloured pink. |
| Patients in ED by<br>Pathway & Time     | Patients in ED by Pathway & Time  To  To  To  To  To  To  To  To  Treatment Area  Other  Treatment Area  Total to the state of the stat | Displays the number of patients in the Emergency Department at 30 minute intervals throughout the day. Patients are colour coded according to the area they are located within (e.g., Observation Area).  The chart is overlaid with an Escalation Trigger – a measure which represents a capacity threshold specific to the individual Emergency Department.  |
| Summary                                 | ① Summary  104 Ambulance Arrivals  37.5% POST  470 Episodes of Care  37.2% NEAT  102 Admissions  | Summary of Ambulance Arrivals, % POST, Episodes of Care (includes patients treated on the selected date who presented on a prior day), % NEAT and number of inpatient Admissions for the selected date.  |
| Breaches by Hour<br>of Breach           | Breaches by Hour of Breach  20  20  20  20  20  20  20  20  20  2  | Displays the number of presentations breaching a length of stay of 4 hours in the Emergency Department. Breaches are tallied in the hour of day in which they exceeded a length of stay of 4 hours.  |
| Waiting ED Patients by Wait Type & Time | Waiting ED Patients by Wait Type & Time  40  50  50  6  6  6  6  6  6  7  6  7  7  7  7  7   | Displays the number of patients at each 30 minute interval throughout the day that were:  • Waiting for a Subspecialty Review Patients waiting for a review by a specialty team external to the Emergency Department.  • Waiting for an Inpatient Admission Patients waiting for admission to an inpatient bed.  • Waiting to be Seen Patients waiting for a review by a treating clinician in the Emergency Department.   |

| Tile  | Screenshot   | Explanation   |
|---|--|---|
| Patients that<br>Arrived by Triage  | Patients that Arrived by Triage  3 (0.8%) 2 (0.5%)  65 (17.3%) 13 (3.5%)  189 (50.3%)  Undefined Triage Priority  1 2 3 3 4 5 5  | Displays the number and proportion of patients that presented for the selected date by their assigned Triage Category:  Category 1  Category 2  Category 3  Category 4  Category 5  Undefined Triage Priority (i.e., error or no data)  |
| Discharges vs.<br>Required by<br>Discharge Hour                                   | Technique v. Regulard by Dechrops How    1   | Displays the number of Emergency Department discharges for each hour. It includes three supporting trendlines based on historical analysis, showing the number of discharges typically required each hour to maintain patient flow:  Average Discharges for a Similar Day The average number of expected hourly discharges, specific to weekday and season.  Upper Control (Top 15.9% of Days) The number of expected hourly discharges for the top 15.9% busiest days.  Lower Control (Bottom 15.9% of Days) The number of expected hourly discharges for the bottom 15.9% least busiest days. |
| Cumulative Discharges vs. Cumulative Required Discharges to Maintain Flow by Hour | Complete Destroyae in Committee Response Destroyae in Marian From by Hour  Committee Destroyae in Committee Response Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From by Hour  Committee Destroyae in Committee Destroyae in Marian From Branches  Committee Destroyae in Committee Destroyae in Marian From Branches  Committee Destroyae in Committee Destroyae in Marian From Branches  Committee Destroyae in Committee Destroyae in Marian From Branches  Committee Destroyae in Commi | This chart shows how actual Emergency Department discharges, compared cumulatively against the number of discharges required to maintain patient flow at each hour.  Any gap where actual discharges fell below required discharges indicates a deficit and may have contributed to rising inpatient demand and ED congestion.  |
| Total Patients by<br>LoS (excl. SSU)  | **************************************   | Displays the total number of patients in the Emergency Department (excluding those in Short Stay Units) for the selected date, grouped by their length of stay (LoS) in hours.  |
| Patients by<br>Diagnosis and<br>NEAT Status                                       | Francis of the final and the f | Displays the number of presentations for the selected date by <b>Diagnosis</b> (e.g., Chest Pain). Patients that breached 4 hours length of the stay in the Emergency Department are coloured <b>red</b> .  |

## **Pod Trends**

**Pod Trends** provides a comprehensive set of retrospective metrics and analytics for individual treatment areas within the Emergency Department. The information provided includes the area's activity, average length of stay, admission and discharge throughput as well as details of patients seen in the area.



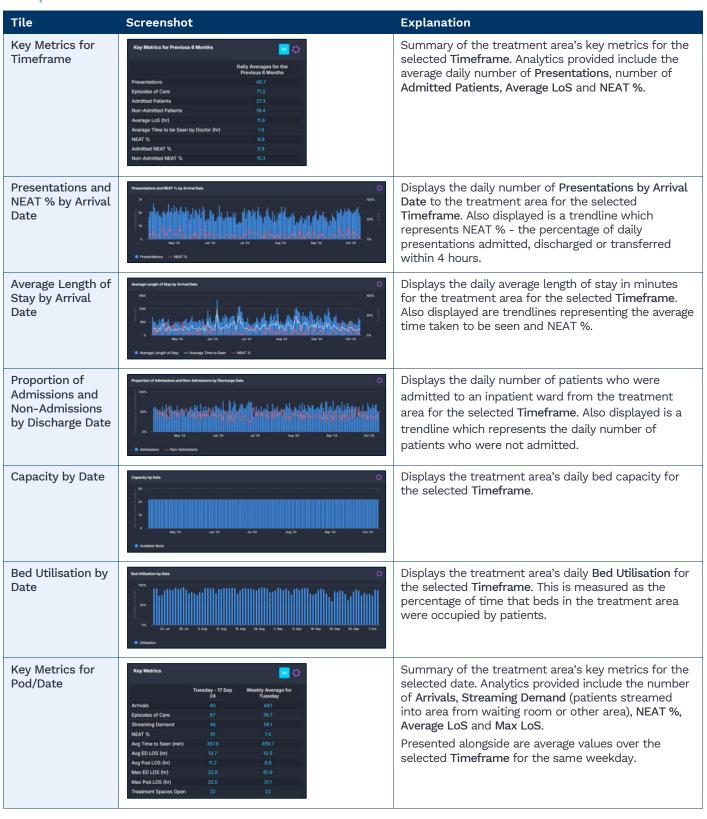
# **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter    | Description   | Filter           | Description  |
|-----------|---|------------------|--|
| Area Type | Select between All, Main or Other mapped areas in the ED.   | Shift            | Select between All, 7am – 3pm, 3pm – 11pm or 11pm – 7am shifts.                                    |
| Timeframe | Select a Timeframe to filter patient information to. Options include Last 12 Months, 6 Months and 3 Months. | Age Cohort       | Select between All, Adult or Paediatric age groups.  |
| Pod       | Select a <b>Pod</b> within the ED such as Triage, Acute and Minors.   | Triage Category  | Select Triage Category(s).   |
| Date      | Select a specific date within the selected Timeframe to analyse.  | Departure Status | Select whether to include All presentations, Admitted presentations or Not Admitted presentations. |

# Interaction

| Interaction            | Screenshot   | Action  |
|------------------------|--|---|
| Patient List           | <b>:</b> ≣ Patient List  | Clicking button displays Pod Arrivals and Discharges, Patients Waiting for a Subspecialty Review and Patients Waiting for Admission Requests lists. These contain patient demographics, Diagnosis, length of stay, bed request and subspecialty review details. |
| Toggle Analysis        | Presentations and NEAT % by Arrival Date  Arrival Date  Arrival Date | Toggle between the charts available such as Average Length of Stay by Arrival Date and Capacity by Date.  |
| Select Pod and<br>Date | Please select a Pod And Date to display  Key Metrics                 | Select a single <b>Pod</b> and <b>Date</b> to unlock further metrics and analytics within this component.   |





| Tile  | Screenshot   | Explanation  |
|---|--|--|
| Patients Waiting<br>on Process by<br>Time of Day            | Patients Waiting on Process by Time of Day  30  20  10  10  10  10  Patients waiting for Admitting Subspecialty Review  Patients Waiting for Observation Area or Inpatient Admission   | Displays the number of Patients Waiting for Observation Area or Inpatient Admission and Patients Waiting for Admitting Subspecialty Review for each half hour of the day.                          |
| NEAT Breaches<br>by Emergency<br>Department<br>Arrival Time | NEAT Breaches by Emergency Department Arrival Time  6  6  0  0  0  0  0  0  0  0  0  0  0  | Displays the number of patients in the treatment area that breached a length of stay of 4 hours in the Emergency Department. Breaches are tallied in the half hour of day in which they presented. |
| Bed Utilisation   | Sect Officialities   C   Section   C   Sec | Displays the utilisation of each bed in the treatment area across the 24 hour period of the selected date.   |

# **Subspecialty Reviews**

**Subspecialty Reviews** provides retrospective metrics and analytics on subspecialty review demand and activity within the Emergency Department. The information provided includes the request volumes, average waiting times for each request and trends over time.

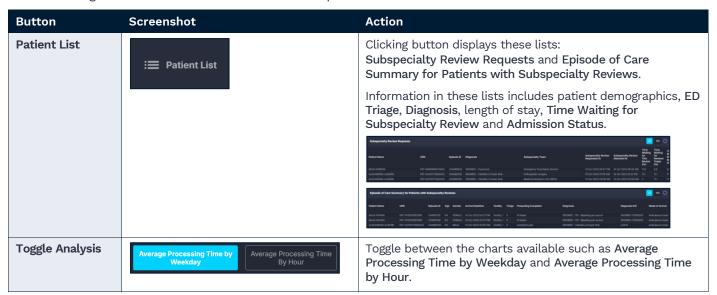


### **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter                       | Description | Filter               | Description   |
|------------------------------|-------------|----------------------|---|
| Subspecialty<br>Review Group |             | Subspecialty<br>Team | Select a single or multiple <b>Subspecialty Team(s)</b> .   |
|                              |             | Timeframe            | Select a Timeframe of either the Last<br>12 Months, 6 Months and 3 Months and<br>7 Days to filter patient information to. |

#### Interaction



| Button                  | Screenshot  | Action  |
|-------------------------|---|---|
| Select Date on<br>Chart | Please select a ReviewRequestedDate to display Subspecialty Review Processing Time by Patient | Click and select a date within the Subspecialty Reviews per Day and Processing Time Associated with Subspecialty Reviews Trend chart to unlock further analytics within this component. |

| Tile  | Screenshot   | Explanation  |
|---|--|--|
| Key Metrics   | Key Metrics: Last 12 Months  103 Average SSRs per day  414.3 Average Processing Time per day (hr)  4 Average Processing Time per SSR (hr)  64.2 % Patients Admitted to IPU   | Summary of the average daily subspecialty reviews (SSRs), the average daily processing time for all requests, the average processing time per individual request and the percentage of patients reviewed who were subsequently admitted during the selected Timeframe. |
| Average Subspecialty Reviews per Day and Average Processing Time Associated With Subspecialty Reviews per Day by Team | Average fluidespecially fluidence per Day and Average Processing Time Associated With Adaptaciting fluidence per Day by Taxon  | Displays the average daily subspecialty reviews, with each column representing the activity levels of individual subspecialty teams. Also displayed are average daily processing times for all reviews which are represented by red dots for each team.                |
| Average Subspecialty Reviews and Average Time Waiting per Subspecialty Review per Day by Team                         | Accrange biologocially becomes and horough Them Mailing part biologocially become part thay by Youn  | Displays the average daily subspecialty reviews, with each column representing the activity levels of individual subspecialty teams. Also displayed are average processing times for individual reviews which are represented by red dots for each team.               |
| Subspecialty<br>Reviews per Day<br>and Processing<br>Time Associated<br>with Subspecialty<br>Reviews Trend            | Budgeprints Reviews per Day and Processing Time Associated with Subapociatly Reviews Transf  To the Control of | Displays the number of daily subspecialty reviews alongside the total processing time spent each day on all subspecialty reviews   |
| Subspecialty<br>Reviews Per Day<br>and Average Time<br>Waiting Per<br>Subspecialty<br>Review Trend                    | Bullepointing Received Per Cory and Average Tree Waiting Per Endoquesion's Review Transd  To Many State Control of Cory and Average Tree Waiting Per Endoquesion's Review Properties  To Many State Control of Cory State Control of Co | Displays the number of daily subspecialty reviews alongside the average waiting time for each individual review on that day.   |

Tile Screenshot **Explanation** Subspecialty Displays the percentage of patients admitted each Review Requests day who had a subspecialty review requested. **Admissions Trend** Displays the average number of subspecialty reviews Average Requests and Average Time requested for each weekday over the selected Waiting per Timeframe. Average processing times for all reviews Subspecialty on each weekday are also represented by red dots. Review By Weekday Average Requests Displays the average number of subspecialty reviews and Average requested for each hour of the day over the selected **Processing Time** Timeframe. Average hourly processing times for all Associated with reviews are also represented by a red trendline. Subspecialty Reviews By Hour Subspecialty Displays the time spent in each phase for patients Review that had a request placed for a subspecialty review. **Processing Time** by Patient

#### **Admissions**

**Admissions** provides retrospective metrics and analytics on bed request and admission demand and activity within the Emergency Department. The information provided includes the number of admissions, average processing times for each admission and trends over time.



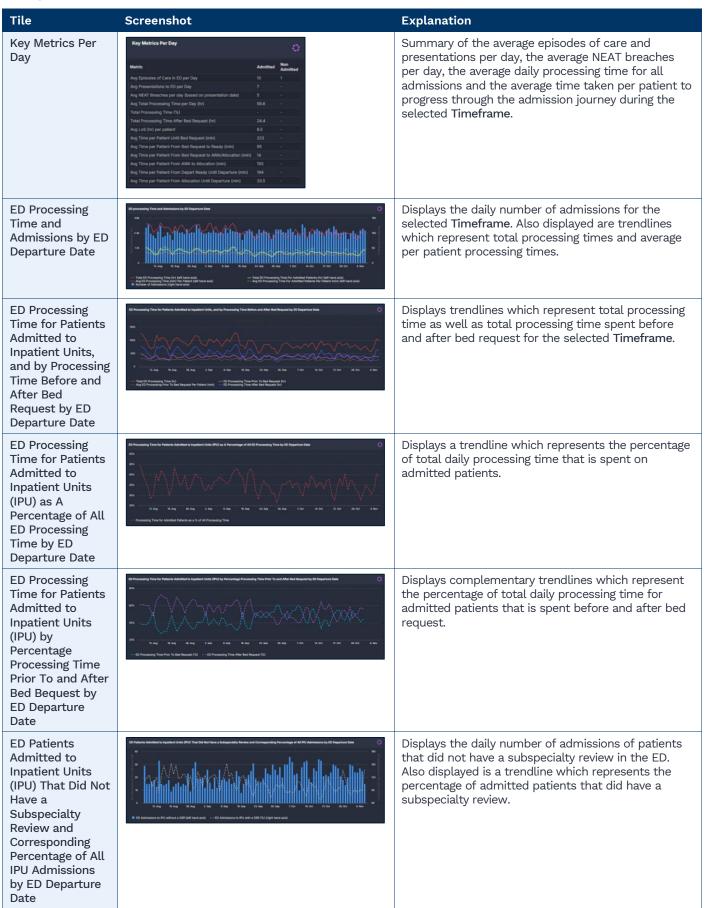
# **Filtering**

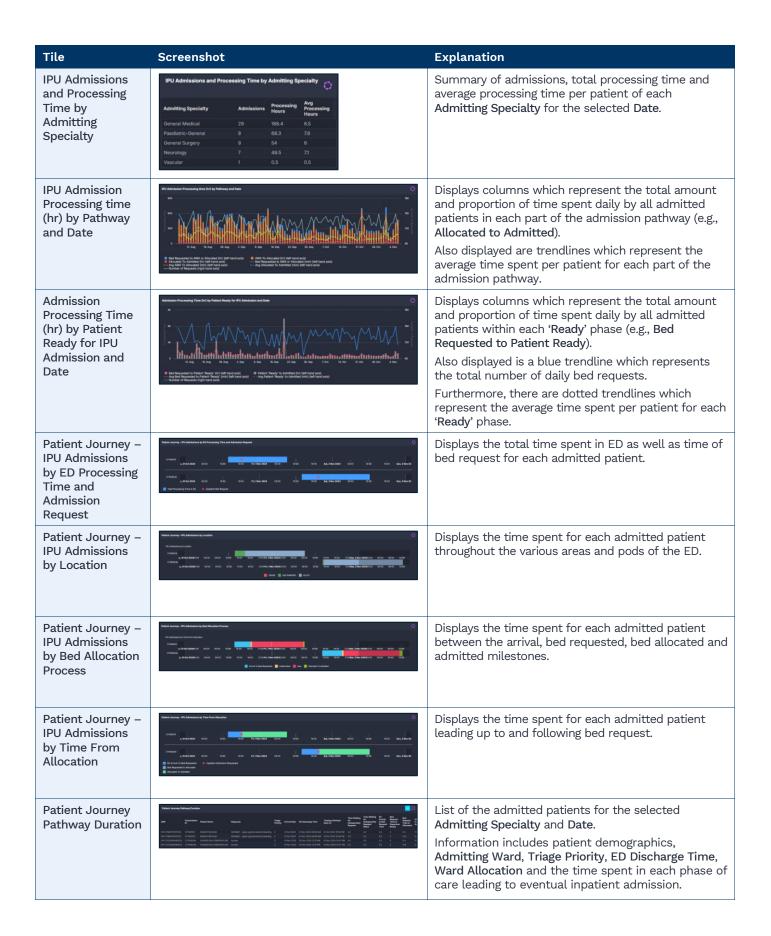
The following noteworthy options are available in this component's Filter Bar:

| Filter                 | Description   | Filter                        | Description   |
|------------------------|---|-------------------------------|---|
| Timeframe              | Select a Timeframe of either the Last<br>12 Months, 6 Months and 3 Months and<br>7 Days to filter patient information to. | Departure<br>Destination Code | Select an admitting inpatient unit to analyse.  |
| Date                   | Select a specific date within the selected Timeframe to analyse.  | LoS Status                    | Select between all patients, or patients with a length of stay lesser than or greater than 8 hours. |
| Age Group              | Select between All, Adult or Paediatric age groups.   | Processing Time               | Select to include or exclude time spent in treatment areas mapped to the Observation pathway.       |
| Admitting<br>Specialty | Select a single or multiple Admitting Specialty teams.  | Area Type                     | Select between All, Main or Other mapped areas in the ED.   |

# Interaction

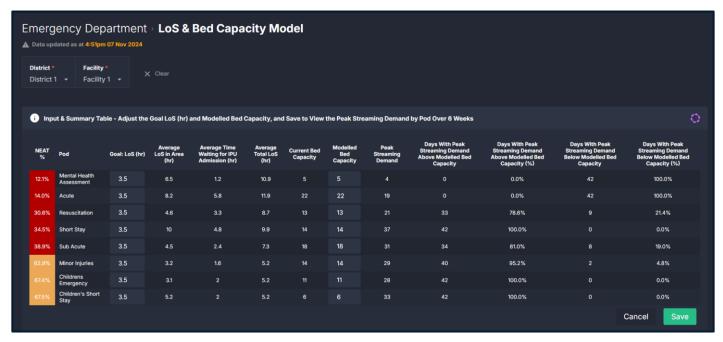
| Button                                    | Screenshot   | Action   |
|---|--|--|
| Toggle Analysis                           | Processing Time and Admissions  Processing Time Before and After Bed Request   | Toggle between the charts available such as Processing<br>Time and Admissions and Processing Time Before and After<br>Bed Request. |
| Select Date                               | Please select a AdmissionDate to display IPU Admissions and Processing Time by Admitting Specialty   | Select a date in the Filter Bar or by clicking a date within a chart to unlock further analytics within this component.            |
| Select Date and<br>Admitting<br>Specialty | Please select a AdmissionDate And AdmittingSpecialty to display Patient Journey – IPU Admissions by ED Processing Time and Admission Request | Select a date and Admitting Specialty from the Filter Bar to unlock further analytics within this component.                       |



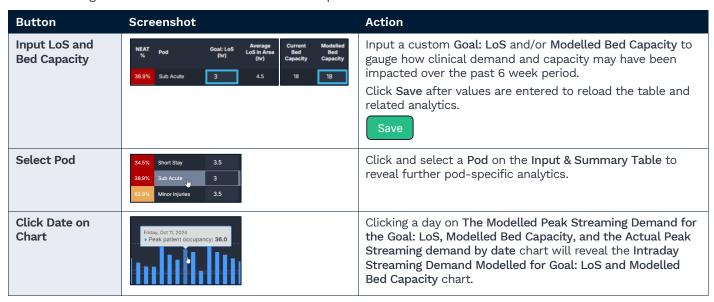


# LoS & Bed Capacity Model

LOS & Bed Capacity Model provides analysis on the number of treatment spaces and average length of stay durations required to meet clinical demand in the Emergency Department. It provides insights based on retrospective activity over the past 6 weeks that can be manipulated using an interactive tool to model the impact of varying length of stay values or treatment space capacities.



#### Interaction



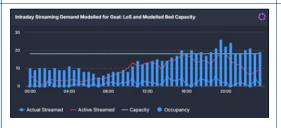
# Tile **Screenshot** Input & Summary Table 52.4% 4.8% Provides key analytics for each pod in the ED based on activity over the past 6 weeks: Explanation NEAT % The % of patients seen in the Pod who were admitted, discharged or transferred within 4 hours. Average LoS in Area (hr) The average length of stay in the area for each patient seen in the area. Average Time Waiting Time for IPU Admission (hr) The average waiting time for each patient in the area from bed request to admission. Average Total LoS (hr) The average total length of stay – inclusive of whole ED journey – for each patient seen in the area. Current Bed Capacity The number of available treatment spaces in the area - configured via mapping with Healthcare Logic. These values can be user-adjusted to model impacts to demand and activity over the last 6 weeks: Goal: LoS (hr) A target and hypothetical Average LoS in Area for each patient seen in the area. Modelled Bed Capacity A hypothetical total bed capacity for the area. Click Save once values have been adjusted to reload the table and related analytics. The following analytics are influenced by the user-adjusted values and model impacts to each treatment area over the last 6 week / 42 day period: Peak Streaming Demand The maximum number of treatments spaces required in the area to meet demand. Days With Peak Streaming Demand Above Modelled Bed Capacity The number of days that Peak Streaming Demand exceeded the Modelled Bed Capacity of the area. i.e., days where an area's bed capacity was not sufficient to meet the modelled demand. Days With Peak Streaming Demand Above Modelled Bed Capacity (%) The % of days where Peak Streaming Demand exceeded Modelled Bed Capacity. Days With Peak Streaming Demand Below Modelled Bed Capacity The number of days that Peak Streaming Demand did not surpass Modelled Bed Capacity. i.e., days where an area's bed capacity was sufficient to meet the modelled demand.

Days With Peak Streaming Demand Below Modelled Bed Capacity (%)

The % of days where Peak Streaming Demand did not surpass Modelled Bed Capacity.

#### Tile Screenshot **Explanation** 6 Week Summary of modelling for the last 6 week period for Streaming the selected treatment area: **Demand Metrics** 27 Peak Streaming Demand Peak Streaming Demand 20 Total Days in Which Daily Peak Streaming Days With Peak Streaming Demand Above Modelled Demand is Greater Than Modelled Bed **Bed Capacity** 47.6% Percentage of Days in Which Daily Peak Days With Peak Streaming Demand Above Modelled Streaming Demand is Greater Than Bed Capacity (%) **Modelled Bed Capacity** The Modelled Displays Peak patient occupancy – the actual peak Peak Streaming number of total patients that were seen in or waiting Demand for the to stream into the treatment area - for each day over Goal: LoS. the last 6 weeks. Modelled Bed Also displayed is Peak streamed patients (modelled) -Capacity, and the the modelled peak number of patients that would Actual Peak have been seen or would have been waiting to enter Streaming the area. This value responds to the user-adjusted demand by date values in the Input & Summary Table. The Modelled Bed Capacity is also represented as a horizontal line across the chart. Displays modelled analytics of the incoming and 6 Week Average Presentations & existing demand for the treatment area, based on average activity over the past 6 weeks, broken down Streaming Demand by by weekday and half-hour increments: Weekday & Half Average Streamed Hour The number of new area arrivals or patients now waiting to enter the treatment area. Average Active Streamed The number of cumulative patients being seen in or that are waiting to enter the treatment area. 6 Week Actual Displays modelled analytics of the incoming and Presentations & existing demand for the treatment area, based on Modelled activity for each specific date and half-hour increment over the past 6 weeks: Streaming Demand by Actual Streamed Presentation Date The number of new area arrivals or patients now & Half Hour waiting to enter the treatment area. Active Streamed The number of cumulative patients being seen in or that are waiting to enter the treatment area.

Intraday Streaming Demand Modelled for Goal: LoS and Modelled Bed Capacity



Displays Active Streamed – the total number of spaces required to cater for demand modelled on Goal LoS and Modelled Bed Capacity – for each half-hour increment of the selected date.

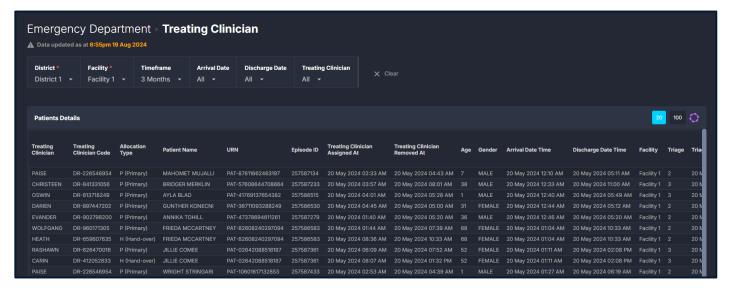
Also displayed is the selected pods:

Occupancy in 15min segments – the total number of actual patients that were being seen in or waiting for the area – and Actual Streamed – the actual number of new area arrivals or patients waiting to enter the area.

The Modelled Bed Capacity is also represented as a horizontal line across the chart.

# **Treating Clinician**

**Treating Clinician** provides information on the patients seen in the Emergency Department for the preceding 12 months. The list of patients can be filtered by the patients' treating clinician(s).



# **Filtering**

The following noteworthy options are available in this component's Filter Bar:

| Filter             | Description   | Filter       | Description   |
|--------------------|---|--------------|---|
| Timeframe          | Select a <b>Timeframe</b> to filter patient information to. Options include <b>Last 7 Days</b> , 3 <b>Months</b> and 12 <b>Months</b> . | Date of Care | Select a single calendar <b>Date of Care</b> to filter patient information to. Available upon selecting a <b>Treating Clinician</b> . |
| Arrival Date       | Select a single calendar Arrival Date to filter patient information to.   | URN          | Select a single or multiple patient IDs/URN. Available upon selecting a Date of Care.   |
| Discharge Date     | Select a single calendar <b>Discharge Date</b> filter patient information to.   | Episode ID   | Select a single or multiple Episode IDs.<br>Available upon selecting a Date of Care.  |
| Treating Clinician | Select a single or multiple <b>Treating Clinicians</b> .  |              |   |

