Draper & Dash Healthcare

Draper & Dash (D&D) is a London based Venture Capitalist (VC) backed healthcare AI and Machine learning predictive data and analytics company. We have worked with over 60 NHS organisations and have already delivered over £31m in combined efficiency opportunities for our customers. Some examples include: Royal Melbourne Health, Barts Health NHS and Guys and St Thomas to highlight a few.

Some of our other customers include: Northern Care Alliance, The Royal Free Group, Bradford Teaching, The Whittington, Rotherham NHS Trust, Hertfordshire Community, East London Foundation trust and others. Our customers have found that our solutions are an intrinsic part of how they run their organisations on a daily basis and aren’t an optional add-on but rather fundamental patient flow solutions.
A&E/ED- Predicting Demand and Workforce Requirements/Capacity

Customers are able to get ahead of the demand with our live waits feature which connects to their patient administration system and provides live patient waits. This allows ED teams to manage patient demand in real time.

The ED team can now have predictions and be alerted of higher than expected demand which may cause you to breach the 4-hour standard along with major, children, complexity/casemix and patients with minor injuries. Helping teams to really align clinical and operations workforce to demand within the department.

D&D’s predictive patient flow platform uses a number of advance data science and machine learning techniques to predict demand and patient flow for A&E departments. These predictions are then fed through to the live analytics module to measure the predicted value against live actual. This gives hospitals real insights on if they are running at expected capacity relating to workforce and more. This is then used to drive the alerting mechanisms for managers of ED/A&E departments or other departments.

Predicting A&E attendances and emergency admissions is now an integral part of delivering unscheduled care and patient flows in healthcare. The algorithm provides a risk assessment for readmissions, deterioration and more. The module can easily connect with other systems in the hospitals such as allocate, ESR, rostering spreadsheets, job planning processes, ambulance attendances, 111 datasets and GP systems to provide a rounded view of demand and capacity.
D&D’s ED dashboard has been modelled with the core aim of allowing hospitals to improve waiting times by providing real-time visibility of patients, enabling management to ascertain where they are in their pathway. The solution further includes projections and forecasting for the service so that the trust is able to establish the busiest periods in the Emergency Department, ultimately enabling them to improve efficiency and be better equipped to make more informed decisions.
Our predictive feature uses advanced data science and machine learning techniques to predict demand and patient flow for hospitals. This predictive capability and advanced analytics will allow you to monitor your hospitals performance and statistics, ensuring everyone in the organisation from executives and the board through to clinical staff have visibility on current happenings, trends and future states.

Neatly displaying the key metrics in a month-on-month table, this tab provides a clear and concise view of the last 12 months of activity across various facets of the organisation.
Our current waits feature connects to your patient administration system and provides live patient waits. This allows ED teams to manage patient demand in real time. The ED team can now be alerted of Higher than Expected demand which may cause you to breach the 4 hour standard along with Major, children and patients with minor injuries.
Each module allows data discovery across a number of measures and dimensions, including but not limited to Arrival Hour, Age Band, Breach Group, Breach Reason, Month Name and Weekday. Furthermore, data can be viewed over any date period, including weekly, monthly, quarterly and yearly. The flexibility of our discovery tabs enables you to dive deeper into your data for greater insight.
The trend analysis tab is built to utilise Statistical Process Control (SPC) charts. This solution allows organisations to identify variation, step changes and observe performance baselines and limits over time. The greatest value added by SPC charts compared to run charts is the ability to use the underlying distribution of the data to identify other special causes.
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