

How to Reduce the Number Of Patients Coming to the ED.

Hamza Malik \rightarrow Step ③ Reaching To Emergency Department (ED)

Goal \rightarrow Reduce wait time in ED by Optimizing Patients based on input and output ratio.

① Reduce wait time giving time slots:

\rightarrow Implement use of Real Time Locating Systems (RTLs)

\rightarrow System used to provide immediate tracking for the # of patients, staff, and the management of Medical equipment.

\rightarrow Implement this into beds of patients to waste no time giving time slots.



Figure 1: Time management and Control system.

\nwarrow Regulatory Compliance, cost efficient

As soon as one patient leaves another is enrolled.

Bluetooth Platform has RTLs implemented in some healthcare systems

https://www.bluetooth.com/r/tis-healthcare/?utm_source=google-ads&utm_term=r/tis%20healthcare&utm_device=c&matchtype=e&utm_location=9000945}&creative=644900062004&utm_campaign=17744237731&utm_agid=142078082159&gclid=CjwKCAIA3Kef8hByEiwAi2LDHDoK2HZ1dJ5MUY-Hh6cY7gWIA_8LKn5AzauxbT32SuQB_O-FBJGhoCQZ8QAyD_BwE

<https://www.chcf.org/wp-content/uploads/2017/12/PDF-UsingPatientTrackingToolsInHospitals.pdf>

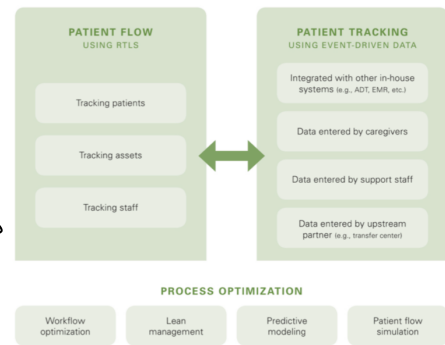


Figure 2: Technology-Based Patient Flow Solutions.

② Colour Codes based on Self Assessments:

\rightarrow To help break down the ED traffic flow into smaller coordinated Departments and clinics based on the Emergency and critical health of the patients.

\rightarrow According to National Library of Medicine, this idea was used to divide the Emergency Department during COVID-19 to help the variant.

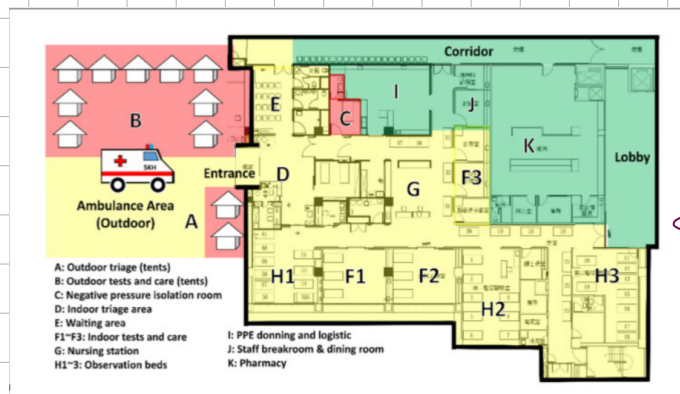


Figure 3: Planimetric Map Showing Different Areas Of Emergency Department.

\rightarrow Can Further be implemented into the Canadian ED system to Control and save lines of patients.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7305635/>

Extra Research Sources:

<https://www.stanleyhealthcare.com/hospital-clinics/rtls>

<https://www.hindawi.com/journals/wcmc/2021/6639558/>

<https://www.sciencedirect.com/science/article/pii/S1755599X18300387>

Creating a like dashboard of traffic
Flow

- ↳ Pharmacies nearby on mobile app
- Chat box or nurse to communicate with
-

App:

- @ your self in ed
- when you get there get reports
-

Re

Mobile app

- Get online registration
- Get prompt

↳ Parametric Uber

- Comes to home