Baseline ED practice

- New emergency ward of AIIMS, New Delhi takes care of 600-1000 patients daily.
- On an average 20-30 emergency blood transfusions happen daily in the emergency department.
- Most of these transfusions are required for hemato-oncology patients in yellow area.
- An initial assessment of practice over a week’s duration revealed a time delay of 5.1 hours in transfusing blood in yellow triaged patients.
- The delay in transfusion in yellow area patients leads to delay in disposition of patients and overcrowding in ED.

Mean duration to blood transfusion (in hours)

- Range: 3.5 – 29.25 hrs
- Median: 5.1 hrs
- Target: 2.5 hrs

Day1,2 (n=5)  Day 3,4 (n=4)  Day5,6 (n=5)  Day7,8 (n=6)

Process mapping

Change ideas

- Having a Blood transfusion team
- Dedicated yellow area JR (in each shift) in charge of generating blood request
- Lab personnel (educated & trained) - to identify indication for BT and inform the above mentioned JR.

Changes expected

- Increased awareness among residents and technicians about ED overcrowding and need for early blood transfusion.
- Cut down the time to blood request generation
- Creation of rapid blood product requisition protocol.
- Improvement of patient care in the ED.

Driver diagram

- Early blood requisition to blood bank
- Reduced IT time for yellow area patients by 50%
- Early issue of blood products
- Change ideas
  - JR who receives patients to send blood product requests
  - Assigning single junior resident for blood transfusion process
  - Educating lab personnel & involvement in loop
  - Sensitizing Residents, Nurses/Draughters
  - Faculty communication at blood bank to process requests swiftly
  - Separate notification for ED blood requests (IT help)
  - Colour coded blood requests
  - Increase blood donor time