

Creation of a Novel Real-time Communication Solution for Timely Sepsis Management

Group 23

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Goals:

- Create a platform for sepsis management to reduce inefficiencies and allow antibiotics to be delivered from the pharmacy to a PICU patient in under one hour

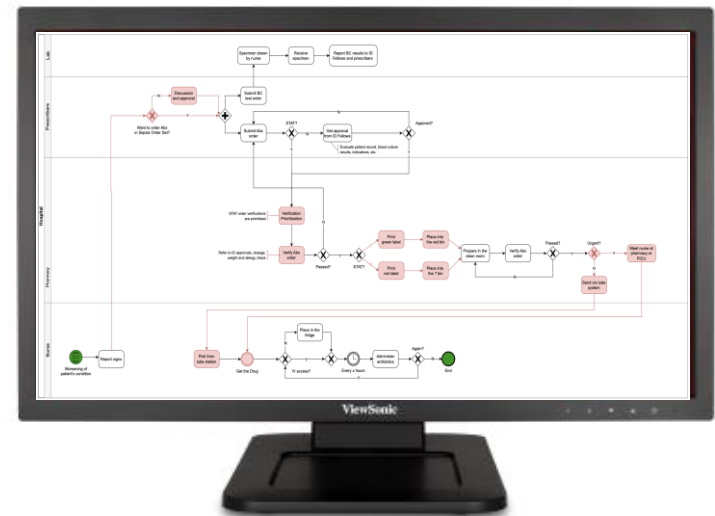
Significance:

- Sepsis is a life-threatening medical emergency caused by the body's overwhelming response to an infection
- Delivery of antibiotics within one hour leads to better results – decreased mortality rates and shorter lengths of stays at hospital

Results:

- Gap analysis
- Track antibiotics
- Visualize process map

Order #	Current status	Location	Team member responsible	Next step	ETA (Estimated Time of Administration)	On track?
001	Ordered - in progress	Pharmacy	Pharmacist	Send through tube	1:30 pm	Green
002	Sent-in tube	Pneumatic tube		Pick up from the PICU tube station	2:00 pm	Green
003	Arrived - waiting to be picked up	PICU Pneumatic tube station #1	Nurse	Check that patient has IV access - deliver to patient room	2:30 pm	Orange
004	Arrived - waiting to be picked up	PICU Pneumatic tube station #2	Travel nurse	Check that patient has IV access - deliver to patient room	3:00 pm	Orange
005	Picked up - waiting for IV access	PICU fridge	Charge nurse	Administer antibiotics	3:30 pm	Red
006	Administered	Patient room			4:00 pm	Green



Tracking Antibiotics from Pharmacy to PICU Pneumatic Tube Station

