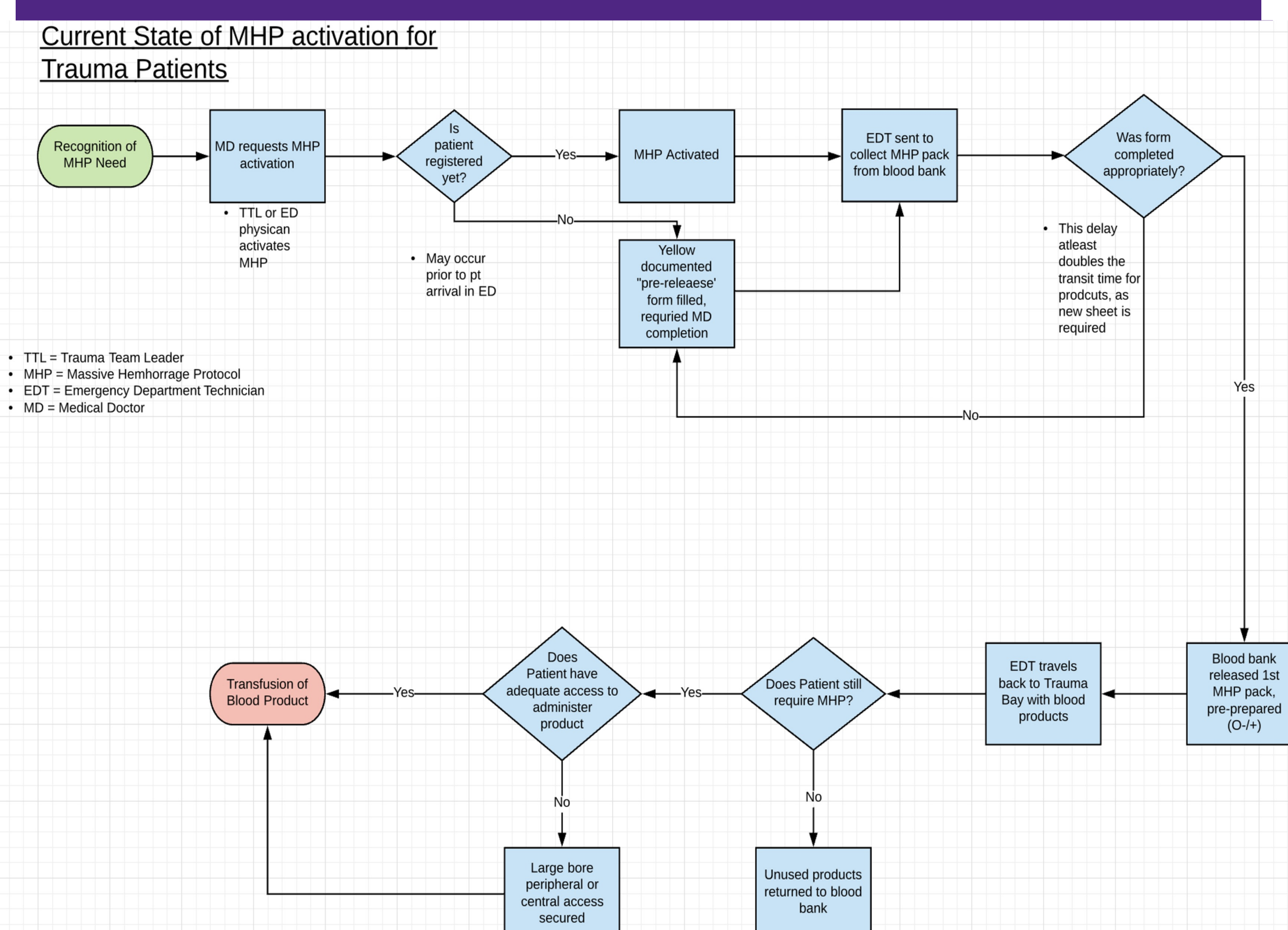


**AIM Statement:** By Summer 2022, implement a 2 minute reduction in time from Emergency Department registration to time of 1st blood product administration for traumatically injured patients in need of massive hemorrhage protocol

## PROBLEM DEFINITION

Critically ill bleeding trauma patients require rapid access to blood products to minimize associated mortality and optimize damage control resuscitation. Local analysis showing a median delivery time of over 10 minutes. Each minute reduction in receipt of blood products to trauma patients would result in a 5% mortality benefit.

## ROOT CAUSE ANALYSIS



Process Map from Trauma Activation to blood product delivery.

Stakeholder interviews suggest areas for improvement involve focus on automation and minimizing delays in release of blood to arrival of patient

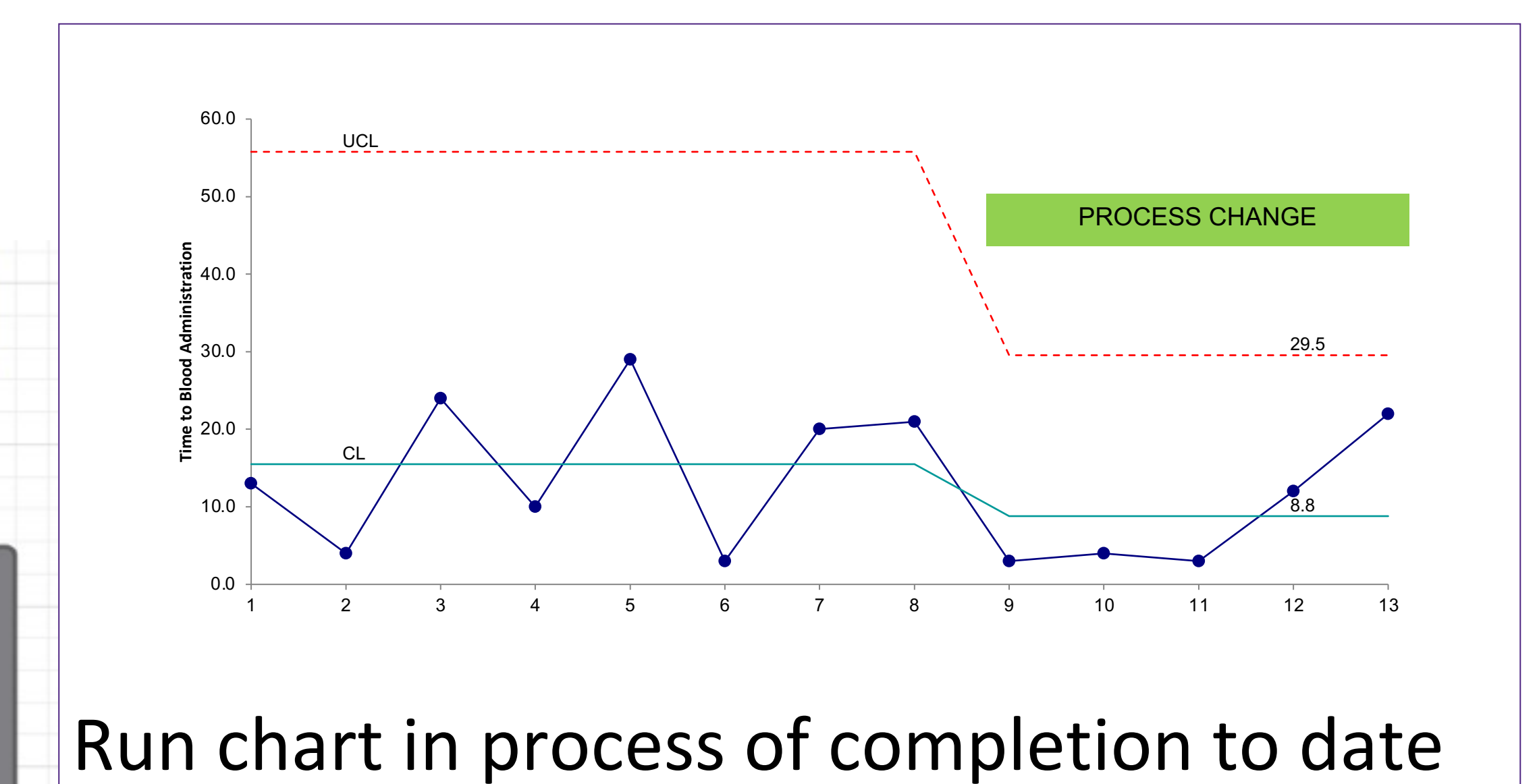
# Automated activation of blood product for all trauma team activations reduces time to blood product administration and improves communication between front line providers and blood bank personnel.

## IMPLEMENTATION

PDSA cycles demonstrated

1. Excellent blood product preparation from blood bank
2. Personnel challenges in transport of product from blood bank to Trauma
3. Improved documentation of blood product delivery times is required
4. Communication qualitatively improved within all stakeholders, with flow of information targeting Rh status for product delivery

## MEASUREMENT & RESULTS



## SUSTAINABILITY

Each trauma activation will be reviewed by charge RN to ensure documentation completed and delays identified. Blood bank personnel monitoring rates of pick up by ED team.

