ASCO Quality Training Program

Reducing Delays in Chemotherapy Administration in the Therapeutic Medicine Center at New York-Presbyterian Queens

Lauren Elreda MD, Jorge Monge MD, Adam Hines MD, Phyu Thin Naing MD

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Institutional Overview

- A community teaching hospital in Queens, New York, affiliated with Weill Cornell Medicine.
- Tertiary care facility with approximately 535 beds
- Specialties provided range from labor and delivery, pediatric/pediatric specialties, internal medicine/ with all subspecialties, general surgery/surgical subspecialties are provided.
- Therapeutic Medicine Center (TMC) has 9 chairs approximately 80% occupied by medical oncology patients for which the majority are solid tumor patients.



Team members

Project Lead: Lauren Elreda (NYP-Queens)

Adam Hines (NYP-Queens)

Phyu Thin Naing (NYP-Queens)

Jorge Monge Urrea (NYP-Cornell)

Arif Kamal (Duke Cancer Institute)

Carolyn Hendricks (Johns Hopkins Cancer Institute)



Problem Statement

During the last six months, patients with an oncologic diagnosis scheduled for outpatient chemotherapy in the Therapeutic Medicine Center at NewYork-Presbyterian/Queens experienced a median time from registration to treatment initiation of 112 minutes. This led to decreased patient satisfaction.



Outcome Measure

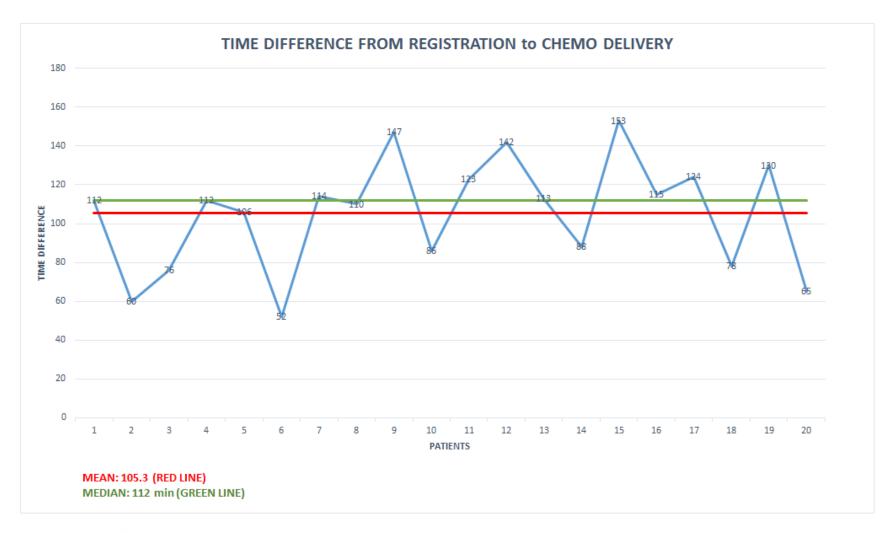
Baseline data summary

Item	Description
Measure:	Time from patient registration to treatment initiation
Patient population: (Exclusions, if any)	Patients with solid tumor malignancies receiving chemo infusion therapy at the Therapeutic Medicine Center at NYP/Q (N=20)
Calculation methodology: (i.e. numerator & denominator)	Median time from registration to chemotherapy infusion
Data source:	Manual data collection by clinic staff
Data collection frequency:	4 days over 2-week period
Data limitations: (if applicable)	Small sample size, limited time period of data collection



Outcome Measure

Baseline data



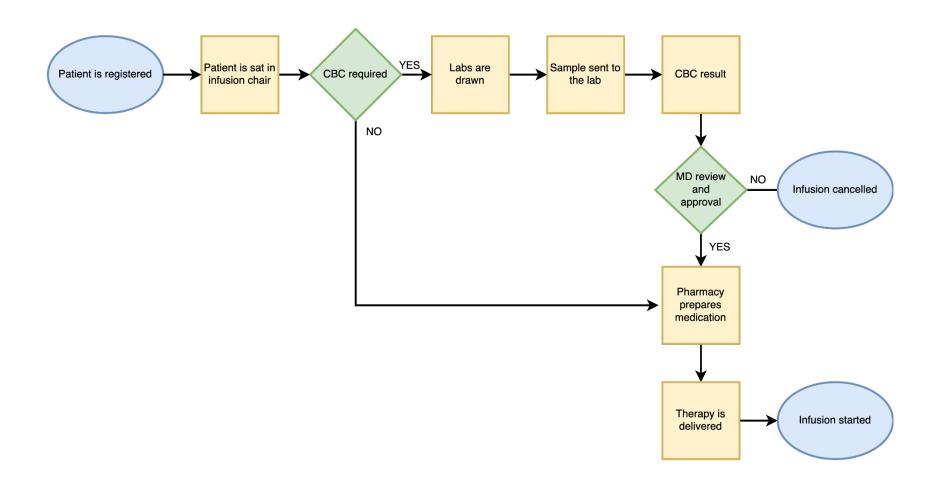


Aim Statement

By September 2020, we aim to decrease the median time from patient registration to start of treatment infusion at the TMC in NYP/Q to less than 90 minutes.

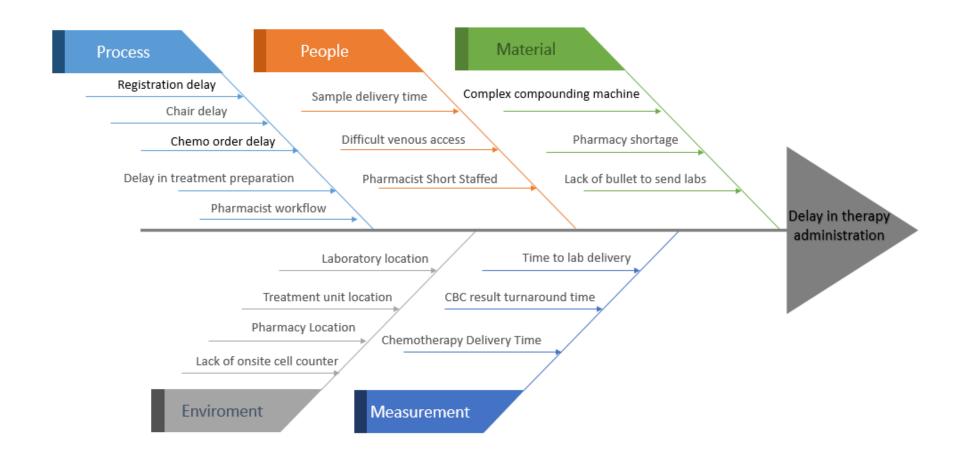


Process map





Cause and Effect diagram





Priority / Pay-off Matrix

Countermeasures

High Imbact

Low

- Staggering patients' schedule
- Speak with the pharmacy to better understand workflow
- Hiring a new pharmacist
- Simplifying the steps/protocols involved with compounding machine

- Getting accurate height and weight as soon as patients register

- Getting prior authorization forms ready at least 48 hrs before infusion day
- Getting chemotherapy orders 48 hrs in advance

- Hiring additional runner
- Having a satellite pharmacy close to the infusion center

Easy

Ease of Implementation

Difficult



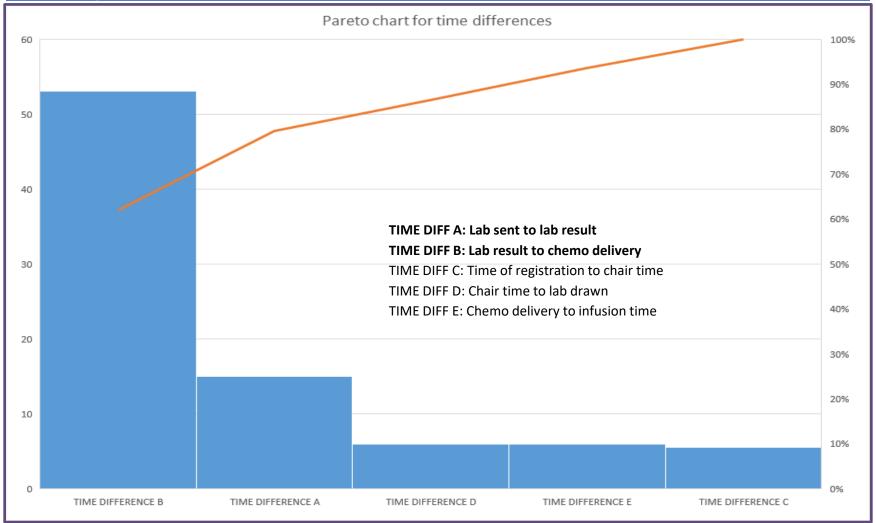
Process Measure

Diagnostic Data summary

Item	Description
Measure:	Patient Registration Time Time in Chair Labs Drawn Time Labs Sent Time Labs Resulted Time Chemotherapy Delivered Infusion Start Time
Patient population: (Exclusions, if any)	Solid tumor malignancy patients receiving chemotherapy at Therapeutic Medicine Center at NYP/Q (N=20)
Calculation methodology: (i.e. numerator & denominator)	Median time difference of labs sent to resulted Median time difference of labs resulted to chemotherapy infusion
Data source:	Manual data collection by clinic staff
Data collection frequency:	4 days over 2-week period
Data limitations: (if applicable)	Small sample size, limited time period of data collection

Process Measure

Diagnostic Data



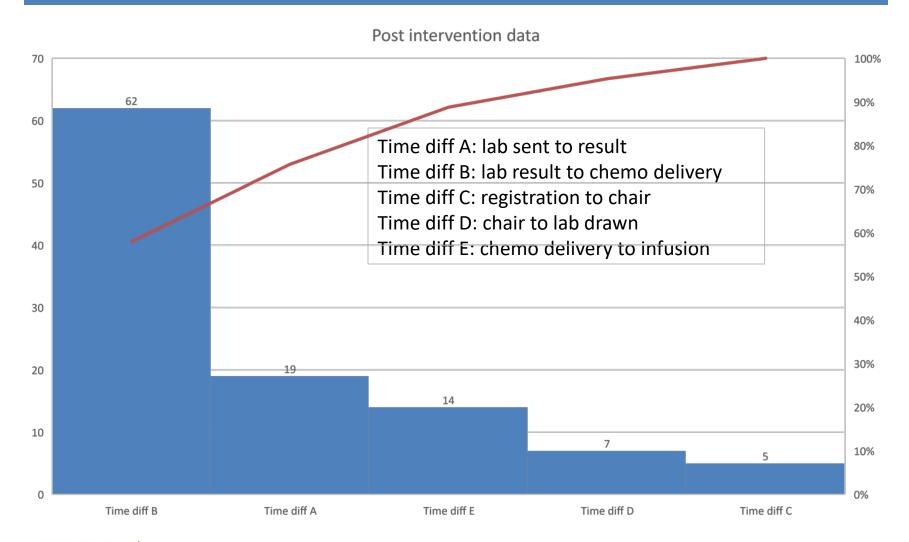


Test of Change

PDSA Plan

Date	PDSA Description	Result
8/1/2020	- Speaking with pharmacy team, staggering patients' schedule strategically so that patients don't have to wait during the pharmacists' lunch time	-N= 18 (Total time from registration to chemo infusion; Mean= 125, Median=126)

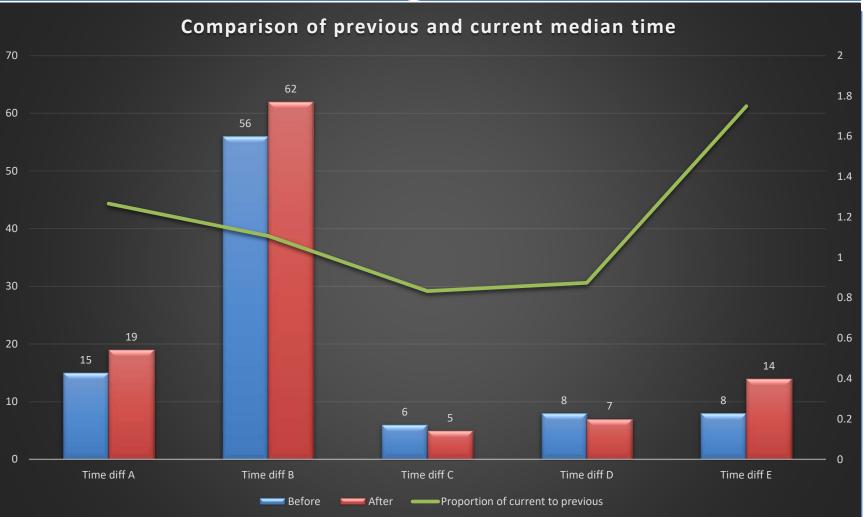
Post intervention data summary





Outcome Measure

Change Data





Next steps

Sustainability Plan

Next Steps	Owner
Continue close-loop communication between pharmacy and infusion center staff in staggering patients' schedule, getting prior authorization	Pharmacy and nursing staff
Encouraging physicians to place chemotherapy orders before infusion date	Oncologists
On-going discussions with stakeholders to expand the pharmacy staff	Division chiefs



Conclusion

Results

- We spoke with the pharmacy team to better understand their workflow and staggered patients' schedule strategically for the first PDSA cycle
- We found that there is no improvement in time difference between lab sent to result (A) or time difference between lab result to chemo delivery (B)

Limitations:

Sample size is smaller with for post-implementation data

NEXT STEPS

- Having a satellite pharmacy close to the infusion center
- Simplifying the steps/protocols involved with compounding machine
- Acquiring a new pharmacist

THANK YOU!

