Using Value Stream Mapping to Explore Newborn Clinic Efficiency and Provider Satisfaction

Background

- FQHC quickly created a newborn clinic (NBC) in 2020 to protect neonates during COVID pandemic
- Implementation challenging due to pandemic
 - Provider satisfaction low
 - Long NBC wait times
 - Spending 1.22 hours on average in clinic
 - Possible inefficiency/bottlenecks in clinic
- Neonates from low SES at higher risk of complications
- Low birth weight
- Preterm birth
- Mortality

Literature Review

- Newborns are a high-risk population Weight loss/ Failure to thrive Hyperbilirubinemia
- Importance of efficient throughput of patients
- Limited literature surrounding newborn clinic efficiency
- Clinic scheduling highly individualize
- Care coordination well supported across multiple clinical settings

Purpose Statement

- The purpose of this project was to examine operational flow in a newly formed, inner-city NBC and enhance the role of coordinated care delivery.
- **Outcomes:**
- Evaluate scheduling
- Identify inactive time in clinic flow
- Examine use of a care coordinator position

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paperwork are areas needing work



Methods

- **Design:** Quality Improvement Project Setting: FQHC in Downtown Los Angeles, CA.
- **Sample:** Providers, newborn patients up to 2 months of age largely Latino population
- **Data collection:** Collected by
 - AmeriCorps volunteers n=40 pre-
- intervention, n=30 post-intervention, convenience sample.
- Outcomes & Measures: Improved provider satisfaction via survey; Improved efficiency via timestamp

Significance

- Healthcare requires efficiency in care delivery. Exploring avenues for efficient care delivery should be a top priority.
 - Study highlights that the use of value stream maps can identify areas of inactive time that can be more effectively used to deliver care in line with best practices.

Discussion & Future Implications

- VSM should be applied when attempting to understand clinic flow dynamics and making informed decisions.
- Best practices can be implemented without disrupting cycle time.
- Provider satisfaction may be more affected by coordinated care than improvement inpatient inactive time.
- Care coordination likely plays a significant role in efficient care delivery.
- Care coordinator position approved at the clinical site
 - Pilot to begin August 2023.
 - Pilot funded with grant money