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Cervical Ripening for Induction of Labor

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Project: Cervical Ripening For Induction Of Labor

Maine Medical Center

Last Updated: October 8, 2018



Executive Sponsor: Zander Abbott MBA Facilitator: Deb Sepulveda MD MPH

MaineHealth
Center for Performance
Improvement

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Problem/Impact Statement:

Over the past twelve months, 58% (or 340) of patients requiring cervical ripening prior to induction of labor were managed with Cervidil. 401 doses were administered, at a cost of \$2,214 per dose, for total charges of approximately \$887,000. Alternative methods for cervical ripening, often clinically appropriate, range from \$2.73 to \$180.

Scope:

In scope (metric): Patients requiring cervical ripening for induction. Time frame from admission for induction to delivery. Out of scope: Not requiring ripening (dilated >6cm). In scope (intervention): Physicians and staff. Out of scope: Direct patient education.

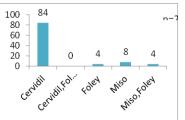
Goal/Objective:

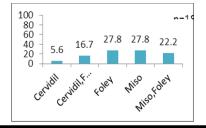
Decrease in Cervidil use for cervical ripening by 20% of anticipated doses prior to Dec 1, 2018 (6 mos), with a potential for cost savings = 40 doses x approx. \$2000/dose = \$80,000.

Baseline Metrics/Current State:

Disparity in practice between seven practice groups with range in Cervidil use – ranging from 26% - 87% of cases. Range 50% to 4% use of very low risk, affordable mechanical ripening (balloon/foley).

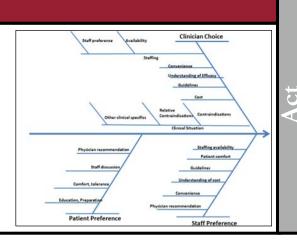
Disparity examples: Use of approaches by two groups:



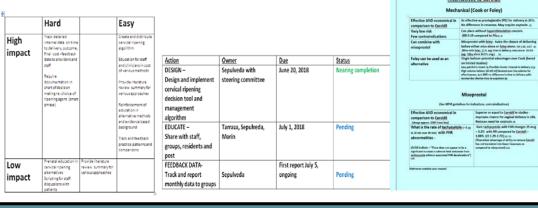


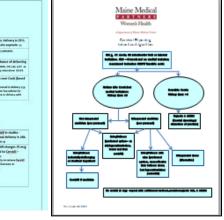
Root Cause Analysis:

- RCA based on survey of physicians, discussion with staff:
- "5 Why" summary:
 Discrepancy in Cervidil use between groups Why?
 Preferential use by some providers Why?
 Perceptions varied (re: cost, efficacy, staff required, weight given to convenience and comfort) Why?
 Lack of education re: cost
 No local data reported
 Lack of standardized algorithm
 Need for clarity re: staffing required



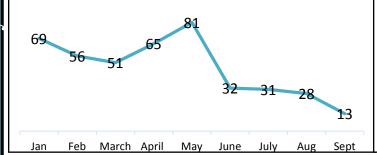
Countermeasures

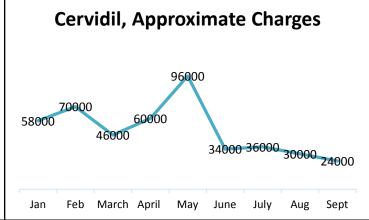




Outcomes

Doses of Cervidil as a Percent of Patients with Cervical Ripening





\$136,000 extrapolated "charge savings" over 4 months

Next Steps

- Practice feedback for Cervidil now integrated into Performance Improvement Committee
- FY '19 transformation focus on inductions
- Algorithm posted on Obstetrical Guidelines webpage for access by other institutions

