Bridging the Gap with Newborn Antibiotic (ABX) Stewardship: Utilizing a Nurse-Driven Risk Assessment Protocol for Early Onset Sepsis

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Student Submission - Old Dominion University

SIGNIFICANCE AND BACKGROUND

Overuse of antibiotics (ABX) is a worldwide epidemic.

Well newborn detivered to mothers with horizontarization have routisely shall contractive the have routisely shall be a blood cultures.

> Empiric ABX therapy 45 hours separate tenthers from matter separate tenthers from matter separate tenthers from matter separate tenthers.

ABX stewardship programs:

▶ Reduce use of ABX & associated risks

▶ Allow newborn to remain with mother

▶ Support uninterrupted skin to skin & exclusive breastfeeding

Purpose

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> Focused newborns delivered to mothers with choricommonitis
> Implemented nurse-driven newborn septin risk assessment protocol.

> Reduce empir. ARX therenay
| Secrease well inveloun's exposure to ARX & labered.

Performed to ARX & labered.

> Performed to responsibility of the properties of the protocol of nurse-driven risk assessment protocol.

Method

Nurse-Driven Risk Assessment Protocol

- Nurse-Driven Risk Assessment flowsheet developed

 > ID newborns at risk for early onset sepsis
 Infection Susceptibility Calculator® tool completed
 by nurse for newborns at risk

 > Determining newborn's early onset sepsis risk

 £ tx recommendations

 > Communicated to providers to determine
 appropriate tx orders

Outcomes

▶Reduction of 94.4% in empiric ABX administration in newborns

►Nurse-Driven Risk Assessment Protocol use realized a cost-savings of \$24,424/ 7 months

▶No readmission within 30 days of discharge for signs & symptoms or diagnosis of sepsis

Antibiotic Exposure Sept. 2016 | Aug 2017 .017.



Conclusion and Implications

▶ Utilizing a Nurse-Driven Risk Assessment Protocol decreases: ▶ Exposure of ABX in well newborns ▶ Needle sticks & lab work ▶ Separation time of newborn & mother ▶ Total Newborn Costs

▶ A Nurse-Driven Risk Assessment Protocol can bridge the gap between empiric versus risk assessed ABX therapy in newborns at risk for sepsis.

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