



**Neonatal Antibiotic Stewardship Education Toolkit
Status Update
10/11/2022**

MDPQC Neonatal Antibiotic Stewardship Bundle

Core Element	Description	Actions
Leadership Commitment	Dedicate necessary human, financial and information technology resources	<ul style="list-style-type: none"> Participation Agreement; hospital leadership awareness/involvement
Accountability	Appoint a leader or co-leaders responsible for program management and outcomes	<ul style="list-style-type: none"> Establish a team; Provide team member names/roles
Pharmacy Expertise	Appoint a pharmacist to be involved in implementation efforts to improve antibiotic use	<ul style="list-style-type: none"> Subject matter expertise access through Collaborative; Dosing recommendations through Bundle
Action	Implement interventions to improve antibiotic use	<ul style="list-style-type: none"> Neonatal Sepsis Calculator; Antibiotic choice guidelines; Antibiotic time-out
Tracking	Monitor Antibiotic prescribing, impact of interventions, and other important outcomes	<ul style="list-style-type: none"> <u>Outcome Measures</u>: # sepsis workups, # abx starts, # xfers to higher-level care, duration of abx <u>Process Measures</u>: staff education, automatic stop orders, knowledge of facility rates, use of calculator <u>Balancing Measures</u>: # deliveries, # blood cultures
Reporting	Regularly report information on antibiotic use and resistance to staff	<ul style="list-style-type: none"> MDPQC will provide benchmarking reports to share data with team
Education	Educate prescribers, pharmacists, and nurses about use of the calculator, optimal prescribing, and interpretation of laboratory results	<ul style="list-style-type: none"> Monthly team meetings



Education Toolkit Timeline



Toolkit Available here:
<https://www.mdpqc.org/current-initiatives>

Objectives

The objectives of this toolkit are:

1. To help implement antibiotic stewardship in a hospital that either has no antibiotic stewardship in their neonatal units or is looking to improve their antibiotic stewardship program.
2. To explain the implementation of antibiotic stewardship, the appropriate use of antibiotics based on current literature, appropriate use of neonatal early-onset sepsis calculator and implementation, and strategies for benchmarking and sustaining a program.



Using This Toolkit

The slides in this education toolkit are meant to be self-explanatory enough for:

- Independent study by healthcare providers, and/or
 - Team leader to present
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- **The toolkit is divided into chapters**
 - **Each chapter gives a high-level overview of its topic area**
 - **Users may prefer to review chapters individually as needed instead of the full toolkit**



Toolkit Table of Contents

1. Antibiotic Stewardship Basics
2. Neonatal Sepsis
3. Implementing Antibiotic Stewardship
4. EOS Calculator
5. Interpreting Data
6. Program Sustainability



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Toolkit Available here: <https://www.mdpqc.org/current-initiatives>



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Intended Audience

*****Not everything is relevant to frontline clinical staff!***

Healthcare Providers:	Hospital Team Leaders:
Antibiotic Stewardship Basics	Interpreting Data
Neonatal Sepsis	
Implementing Antibiotic Stewardship	Program Sustainability
EOS Calculator	



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Optional Knowledge Check

[Click here for knowledge check](#)

- Optional fields: name, email address, hospital.
- Can be completed for one or more modules at one time.
- Score is based on questions answered.
- Results available on the screen once knowledge check is submitted.
- Hospital leads may request a record of numbers/names completing knowledge check from their facility.



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Toolkit Contributors

Content for this toolkit was developed by:

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- David Kanter, MD – LifeBridge Health
- Lois Lee, PharmD, BCPPS – Frederick Health
- Katie Richards, MPH, CPHQ – HQI
- The MDPQC Neonatal Antibiotic Stewardship Workgroup

If you have any questions about this toolkit, please reach out to Katie Richards, krichards@hqi.solutions



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Discussion

- Has anyone on this call used the toolkit?
 - How are you using the toolkit?
 - Do you have any feedback?
- What would make the toolkit more useful to you?
- Are there any topics missing?

Open Discussion/Q&A

(Does not have to be limited to the toolkit)



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