

Instructors Guide: Management of Postpartum Hemorrhage – Uterotonics

By Dawn Tasillo

- 1) List of all the resource files included in the submission **(Your user guide suffices for this area)**
- 2) Explanation of when, how, and the order in which to use each resource file. **(Your user guide suffices for this area)**
- 3) The purpose/goal of the resource (including educational objectives)

After completing this module, learners will be able to:

- Identify when during a PPH to initiate uterotonics
- Name the 4 classes of uterotonics
- Describe the typical order of use of these different classes
- Verbalize the correct dose, dosing interval and route of administration for each medication
- Describe the contraindications to the use of various uterotonics

- 4) The conceptual background (why and how it was created)

Postpartum hemorrhage is relatively rare but life threatening event. Accurate understanding of the management of postpartum hemorrhage is therefore critical. This module was designed to review the first step in management of postpartum hemorrhage, the use of uterotonic agents. Medical students, resident and attending physicians can benefit from regular training via modules on such a critical but relatively rare event.

- 5) Practical implementation advice (materials needed, length of session, faculty/facilitator needs, preparation needs, etc.)

The entire module should take approximately 60 – 90 minutes to complete. Only a computer with internet access is required. No preparation is necessary. A bibliography which is included will serve with further references as needed.

- 6) How has it been successfully deployed (including common pitfalls, tips for success, etc.)

This module was deployed as part of an integrated learning curriculum on the management of post partum hemorrhage for OB GYN residents at the University of Massachusetts Medical School Department of OB/GYN. Residents reported positively on the ease of use and relevance of this topic to their training.

- 7) What are the limitations of the resource and what are your ideas for improving/expanding it (adding this self-reflection component is encouraged).

As part of a larger curriculum, multiple modules were created to cover medical, surgical and interventional radiology management of postpartum hemorrhage. This module was presented early in the series as it covers the first-line treatment that should be understood by students and residents from an specialty practicing obstetrics. When the module series is presented as a whole, a skills lab to allow for practice of the surgical skills required to manage postpartum hemorrhage has been trialed with success. Unfortunately there is no easy way to simulate the application of uterotonic medications. For this reason, an interactive module on this subtopic is a good way to present this data for students' review and study. The module, while meant to be comprehensive, does not allow for interactive question and answer session with a skilled instructor nor does it cover more than one clinical scenario. In the future, additional scenarios can be created, as well as an electronic question bank to test students' comprehension of the topic.

One goal of publishing this resource is to make available to our colleagues what took a significant

amount of time and money to create. Additional resources could be dedicated to creating a skills simulation session in your institution to test the knowledge and practical application of the procedural skills learned in these modules.