

Course Syllabus

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Course Code: MW 325

Course Title: Intrapartum Pharmacology

Credits: 0.5

Course Description: This course covers both allopathic and non-allopathic medications used during the intrapartum period. Allopathic medicines used in the hospital, (not used by licensed midwives) are reviewed so students gain understanding of the indications for use, effects, and possible side effects of medications used in obstetrics. Students learn which allopathic medications licensed midwives may utilize for normal labor and delivery in the out-of-hospital environment. Homeopathic and herbal medications for use during labor and delivery are also covered.

This course uses current research in midwifery and obstetrics to broaden the student's understanding of the NARM skills and MEAC essential competencies learned under clinical supervision.

Learning Objectives

Learning objectives are identified through the linking of MEAC Essential Competencies and the NCM Degree Qualification Profile.

Learning Activities

Intrapartum Courses

Read, listen to, watch assigned lesson materials.

Submit a written summary of current research.

Complete oral and/or written formative didactic assessments with a final summative submission.

Identify and cite high-quality sources.

Use articulated reasoning while participating in an oral presentation, facilitated discussions and skills demonstrations.

Optional: Participate in a skills demonstration and/or role playing activity.

Analyze a case study.

Create an infographic, handout, and/or community resource.

Optional: Develop a study aid.

Complete a final exam.

Note: The clinical requirement of NARM /Clinical Skills is completed at any time throughout the ASM apprenticeship during actual clinical practice and is NOT a requirement to complete this academic course. Typical clinical manifestations of knowledge learned in this course are identified in the learning objective document above.

Learning Materials / Resources:

1. Manning, Loretta. Pharmacology Made Insanely Easy. 4th edition. ICAN Publishing, Inc. 2013.
2. Marshall, Jayne E, Raynor, Maureen D(editor). Myles Textbook for Midwives. Churchill Livingstone; 16 edition. 2014.
3. Romm, Aviva Jill. Botanical Medicine for Women's Health. 2nd edition. Churchill Livingstone Publishers. 2017.
4. Varney, Helen. Varney's Midwifery, 5th Edition. Jones and Bartlett Publishers. 2014.
5. Chapman, Vicky and Charles, Cathy. The midwife's labour and birth handbook. 3rd edition. Blackwell Publishing. 2013
6. Perko, Sandra. The Modern Pregnant Woman and Her Infant - A Therapeutic Practice Guidebook for Midwives, Physicians, and Practitioners. Benchmark Homeopathic Publications. 2008.
7. Cunningham, Kenneth Leveno, Steven Bloom, and John Hauth. William's Obstetrics. 24th edition. McGraw-Hill Professional. 2014.
8. Weed, Susan S. Wise Woman Herbal for the Childbearing Year. 1st edition. Ash Tree Publishing. 1985.
9. Frye, Anne. Holistic Midwifery: A Comprehensive Textbook for Midwives in Homebirth Practice, Vol. 2. 2nd edition. Labrys Press. 2013.
10. Weaver, Pam and Evans, Sharon K. Practical Skills Guide for Midwifery, 5th Edition. Morningstar Publishing Co. Wasilla. 2012.

Resources for all Courses:

MEAC Abbreviated NARM Skills Form:

<http://www.midwiferycollege.org/AcademicProgram/Downloads/ASM/Clinical/FormNARMSkills.pdf>

[.\(http://www.midwiferycollege.org/AcademicProgram/Downloads/ASM/Clinical/FormNARMSkills.pdf\)](http://www.midwiferycollege.org/AcademicProgram/Downloads/ASM/Clinical/FormNARMSkills.pdf) MEAC Essential Competencies:

<http://www.midwiferycollege.org/downloads/worddocs/Curriculum-Checklist-of-EssentialCompetencies-rev-2014.pdf>

[_ \(http://www.midwiferycollege.org/downloads/worddocs/Curriculum-Checklist-of-EssentialCompetencies-rev-2014.pdf\)](http://www.midwiferycollege.org/downloads/worddocs/Curriculum-Checklist-of-EssentialCompetencies-rev-2014.pdf)

Midwives Model of Care®: <http://cfmidwifery.org/mmoc/brochures.aspx>
[_ \(http://cfmidwifery.org/mmoc/brochures.aspx\)](http://cfmidwifery.org/mmoc/brochures.aspx)

Students must find 1 article/study less than 5 years old. Recommended internet links as needed for latest developments in midwifery care:

<https://www.midwiferycollege.edu/resources-national-college-of-midwi>
[_ \(https://www.midwiferycollege.edu/resources-national-college-of-midwi\)](https://www.midwiferycollege.edu/resources-national-college-of-midwi)

Evaluation Tools / Methods:

The minimum passing grade for all courses is a cumulative 80% / B-. Grades are not recorded until both the student and preceptor submit end of trimester evaluations and in the case of general education courses supervision is completed.

All assignments for this course are evaluated using the following criteria:

1. Responses to each didactic assessment are evaluated utilizing the NCM rubrics and degree level profile.
2. Answers should reflect a thorough review of the current literature regarding best current practices in midwifery care.
3. Non-plagiarized paraphrased answers from the text which demonstrate appropriate comprehension of the learning objective. (Formative Assessment) Students and preceptors are encouraged to work together until the student masters the information. (Summative Assessment)
4. Random evaluation of cited sources and page numbers for each written assignment.

Course credit: One Academic credit equals approximately 15 hours of formal time plus 30 hours of additional study or homework. Formal time is defined as the amount of time taken to answer the Learning Objectives to the level of 80% for midwifery courses and 70% for general education courses and to complete any learning activities to the preceptor's satisfaction, including any time spent face to face with the preceptor. Informal time includes any time spent actively reading relevant sources and textbook/s, researching Learning Objectives, and studying for examinations.

Course Summary:

Date	Details
Tue Jul 25, 2017	 Office Hours (https://ncm.instructure.com/calendar?event_id=138&include_contexts=course_167) 8am to 9am
	 A Note on Community Building Activities

Date

Details

(<https://ncm.instructure.com/courses/167/assignments/9410>)

 [Anesthesia \(https://ncm.instructure.com/courses/167/assignments/9430\)](https://ncm.instructure.com/courses/167/assignments/9430)

 [Exams and Quizzes \(https://ncm.instructure.com/courses/167/assignments/9411\)](https://ncm.instructure.com/courses/167/assignments/9411)

 [Gate Control Theory \(https://ncm.instructure.com/courses/167/assignments/9432\)](https://ncm.instructure.com/courses/167/assignments/9432)

 [Highly Recommended Optional Enrichment Activities \(https://ncm.instructure.com/courses/167/assignments/13489\)](https://ncm.instructure.com/courses/167/assignments/13489)

 [Journal Article Summary \(https://ncm.instructure.com/courses/167/assignments/9412\)](https://ncm.instructure.com/courses/167/assignments/9412)

 [MW325-001 - Name four reasons drugs are used in hospital labors. \(https://ncm.instructure.com/courses/167/assignments/9373\)](https://ncm.instructure.com/courses/167/assignments/9373)

 [MW325-002 - Discuss the current restrictions and laws around the use of controlled substances by midwives in the region you intend to practice. \(https://ncm.instructure.com/courses/167/assignments/9374\)](https://ncm.instructure.com/courses/167/assignments/9374)

 [MW325-003 - Discuss the decisions that must be made regarding medicating a woman in labor. \(https://ncm.instructure.com/courses/167/assignments/9375\)](https://ncm.instructure.com/courses/167/assignments/9375)

 [MW325-004 - Name the four classifications of drugs that are used for pain in hospital labors. Give an example of each. \(https://ncm.instructure.com/courses/167/assignments/9376\)](https://ncm.instructure.com/courses/167/assignments/9376)

 [MW325-005 - Name one pharmaceutical drug used as an antiemetic. \(https://ncm.instructure.com/courses/167/assignments/9377\)](https://ncm.instructure.com/courses/167/assignments/9377)

 [MW325-006 - Name the drugs commonly used for tocolysis and discuss the rationale for each. \(https://ncm.instructure.com/courses/167/assignments/9378\)](https://ncm.instructure.com/courses/167/assignments/9378)

 [MW325-007 - Describe which women are candidates for tocolysis and what is the rationale. \(https://ncm.instructure.com/courses/167/assignments/9379\)](https://ncm.instructure.com/courses/167/assignments/9379)

 [MW325-008 - Name the classifications of drugs which would be more appropriate in false or latent labor as opposed to active labor and why. \(https://ncm.instructure.com/courses/167/assignments/9380\)](https://ncm.instructure.com/courses/167/assignments/9380)

 [MW325-009 - Name the non-pharmacological alternatives to pain medication used in and out of hospital settings. \(https://ncm.instructure.com/courses/167/assignments/9381\)](https://ncm.instructure.com/courses/167/assignments/9381)

 [MW325-010 - Describe these alternatives including their expected action, their effect on mother and fetus, their risk-benefit ratio, and their expected success ratio. \(https://ncm.instructure.com/courses/167/assignments/9382\)](https://ncm.instructure.com/courses/167/assignments/9382)

 [MW325-011 - Choose one of the pharmaceutical drugs used during labor. Explain how the amount, type, route and timing of administration of this drug might affect the normal progress of labor. \(https://ncm.instructure.com/courses/167/assignments/9383\)](https://ncm.instructure.com/courses/167/assignments/9383)

 [MW325-012 - Describe the difference between anesthesia and analgesia. \(https://ncm.instructure.com/courses/167/assignments/9384\)](https://ncm.instructure.com/courses/167/assignments/9384)



Date	Details
	<p><u>MW325-013 - Name the pain-relief medications that can be used during second stage and why.</u> (https://ncm.instructure.com/courses/167/assignments/9385)</p>
	<p> <u>MW325-014 - Discuss the use of prostaglandins and prostaglandin analogues in labor. What is their pharmacological action?</u> (https://ncm.instructure.com/courses/167/assignments/9386)</p>
	<p> <u>MW325-015 - When is the use of prostaglandins contraindicated? When is the use of prostaglandin analogue contraindicated?</u> (https://ncm.instructure.com/courses/167/assignments/9387)</p>
	<p> <u>MW325-016 - Explain the use of IV Pitocin (synthetic oxytocin) intrapartum.</u> (https://ncm.instructure.com/courses/167/assignments/9388)</p>
	<p> <u>MW325-017 - Discuss the following details of IV pitocin use intrapartum. What is the dosage and timing? What is the expected action? What are the contraindications and side effects?</u> (https://ncm.instructure.com/courses/167/assignments/9389)</p>
	<p> <u>MW325-018 - Discuss the situations when IV fluids are indicated intrapartally and what determines the solution used. For each condition give the desired IV solution and the rationale for each.</u> (https://ncm.instructure.com/courses/167/assignments/9390)</p>
	<p> <u>MW325-019 - Give the rationale for the drip-rate total and amount to be infused according to the condition being corrected.</u> (https://ncm.instructure.com/courses/167/assignments/9391)</p>
	<p> <u>MW325-020 - Discuss two classes of antibiotic that are used during labor for the prevention of neonatal GBS infection.</u> (https://ncm.instructure.com/courses/167/assignments/9392)</p>
	<p> <u>MW325-021 - Discuss the dose, route, and frequency of the administration of the above antibiotics.</u> (https://ncm.instructure.com/courses/167/assignments/9393)</p>
	<p> <u>MW325-022 - Discuss anaphylaxis reaction.</u> (https://ncm.instructure.com/courses/167/assignments/9394)</p>
	<p> <u>MW325-023 - Discuss the use of oxygen during the intrapartum period. Under what circumstance is it indicated? Include dose, route, and contraindications for use.</u> (https://ncm.instructure.com/courses/167/assignments/9395)</p>
	<p> <u>MW325-024 - Research 2 herbal remedies for pain in labor and give their origin, their expected action, the indications for use, the contraindications, adverse reactions, the dosage and administration of each.</u> (https://ncm.instructure.com/courses/167/assignments/9396)</p>
	<p> <u>MW325-025 - Research 2 homeopathic remedies for pain in labor and give their origin, their expected action, their indications for use, contraindications, adverse reactions, the dosage and administration of each.</u> (https://ncm.instructure.com/courses/167/assignments/9397)</p>
	<p> <u>MW325-026 - Discuss 2 herbal or dietary supplements that are safe to use after the premature rupture of membranes for the prevention of infection.</u> (https://ncm.instructure.com/courses/167/assignments/9398)</p>

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	<p> MW325-027 - Discuss the use of castor oil in the augmentation or initiation of labor. Discuss dose, contraindications, adverse reactions and indications for use. (https://ncm.instructure.com/courses/167/assignments/9399)</p>
	<p> MW325-028 - Discuss the use of homeopathics in the augmentations or initiation of labor. Discuss dose, contraindications, adverse reactions and indications for use. (https://ncm.instructure.com/courses/167/assignments/9400)</p>
	<p> MW325-029 - Discuss the use of herbal or homeopathic remedies in treating maternal emotional distress during labor. (https://ncm.instructure.com/courses/167/assignments/9401)</p>
	<p> MW325-030 - Discuss herbal, homeopathic or dietary treatments of excessive vomiting during labor. (https://ncm.instructure.com/courses/167/assignments/9402)</p>
	<p> MW325-031 - Discuss use of oxytocic herbs in labor. Which herbs can be used, when, and how? (https://ncm.instructure.com/courses/167/assignments/9403)</p>
	<p> MW325-032 - Discuss the use of an enema during labor. When is an enema indicated and for what problems? (https://ncm.instructure.com/courses/167/assignments/9404)</p>
	<p> MW325-033 - Discuss the use of acupuncture or acupressure during labor. Give an example of a situation when these techniques could be used and any reasons they might not be safe in labor. (https://ncm.instructure.com/courses/167/assignments/9405)</p>
	<p> Opinion on Drugs in Labor (https://ncm.instructure.com/courses/167/assignments/9429)</p>
	<p> Opioids (https://ncm.instructure.com/courses/167/assignments/9431)</p>
	<p> Optional NARM Like Exam (https://ncm.instructure.com/courses/167/assignments/9408)</p>
	<p> Optional: Create a Set of Flashcards to Study for the NARM Exam (https://ncm.instructure.com/courses/167/assignments/15209)</p>
	<p> Pitocin Resource Video (https://ncm.instructure.com/courses/167/assignments/9434)</p>
	<p> Sterile Water Injections (https://ncm.instructure.com/courses/167/assignments/9433)</p>
	<p> Student Evaluation of Course and Instructor (https://ncm.instructure.com/courses/167/assignments/9407)</p>
	<p> Updated Knowledge and Technology (https://ncm.instructure.com/courses/167/assignments/9428)</p>