

Course Title: MOD5-MW340-Newborn Pharmacology

Credits: 0.50

Course Description: This course covers the various allopathic and non-allopathic medications that might be used for the care of a newborn in the postpartum stage. The student will learn how to use oxygen as well as medications that aid in the resuscitation of a newborn.

Learning Objectives:

A: Student will be able to answer the Study Questions (below).

B: Student will be able to demonstrate thorough knowledge of the Clinical Skills required for this course (below).

C: Student will demonstrate thorough knowledge of the MANA Core Competencies for Midwives required for this course (below).

D: Student will be able to demonstrate knowledge of any new information in the area of study.

Learning Activities:

I. Student Reads required texts.

II. Student Completes study questions.

III. Preceptor elaborates on study questions.

IV. Clinical Skills and Core Competencies training consists of the following (may take place at clinical visits or at childbirth education classes):

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|-------------------------------|--|
| 1. Preceptor Explanation of | Safe, evidence-based midwifery care for the individual Clinical Skills and Core Competencies including etiology, sequelae, appropriate management and follow-up for the individual patient, appropriate times and reasons for consult and referral, access to relevant resources and information, complete, thorough and timely record keeping, appropriate, professional, and compassionate management of every task involved, receptiveness and responsiveness to patient's concerns. The Explanation will include a discussion of midwifery decisions and actions as they relate to possible outcomes and their wider impact, based on the Midwives Model of Care®. |
| 2. Preceptor Demonstration of | |
| 3. Student Practice of | |
| 4. Student Demonstration of | |

V. Student researches and presents to the preceptor relevant latest developments in academic and clinical midwifery as relevant to the subject.

VI. Student/Preceptor discussion.

VII. Role-playing and Clinical Interactions: practice clinical interactions, assist with actual clinicals.

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Learning Materials / Resources:

(Please use textbooks less than 5 years old, or most recent edition)

1. Manning, Loretta. Pharmacology Made Insanely Easy. 3 New edition. ICAN Publishing, Inc. 2009.
2. Perko, Sandra. The Modern Pregnant Woman and Her Infant - A Therapeutic Practice Guidebook for Midwives, Physicians, and Practitioners. Benchmark Homeopathic Publications. 2008.
3. F. Cunningham, Kenneth Leveno, Steven Bloom, and John Hauth. William's Obstetrics. 23rd Edition. McGraw-Hill Professional. 2009.

4. Weed, Susan S. Wise Woman Herbal for the Childbearing Year. 1st edition. Ash Tree Publishing. 1985
5. Frye, Anne. Holistic Midwifery: A Comprehensive Textbook for Midwives in Homebirth Practice, Vol. 2: Care of the Mother and Baby from the Onset of Labor Through the First Hours After Birth. Labrys Press. 2004.
6. Weaver, Pam and Evans, Sharon K. Practical Skills Guide for Midwifery, 4th Edition. Morningstar Publishing Co. Wasilla. 2007
7. MEAC Abbreviated NARM Skills Form.
8. MANA Core Competencies for Midwives
9. Midwives Model of Care®.
10. Internet links as needed for latest developments in midwifery care:
[The Cochrane Collaboration](#)
[EBSCO](#)
[National Library of Medicine](#)
[PubMed](#)
[Medline](#)
[SCIRUS](#)
[Medscape](#)
[World Health Organization](#)

Evaluation Tools / Methods:

1. Answers to study questions: Student must achieve at least 80% correct to pass. The preceptor evaluates each answer for correctness and explains the questions that were incorrect. This counts for 85% of the final grade.
2. Clinical Skills: Student must demonstrate thorough knowledge of each skill. This counts for 5% of the final grade. *Academic courses CAN be completed without the student achieving "mastery" of each skill*, however the skills on the MEAC Abbreviated NARM Skills Form (which is a separate requirement) are not filled in until the student achieves Mastery* of the skill.
3. MANA Core Competencies: Student's ability to apply MANA Core Competencies for Midwives in discussion to simulated and real-life situations. This counts for 5% of the final grade.

Evaluation of NARM Skills and MANA Core Competencies: The student demonstrates thorough knowledge to the satisfaction of the preceptor in the following areas:

**The student will be able to, in accordance with safe, evidence-based midwifery care, explain the condition, verbalize etiology and sequelae, verbalize appropriate management for the individual patient, follow up appropriately, consult and refer appropriately, access resources and information, accomplish complete, thorough and timely record keeping, appropriately manage every task involved correctly, professionally, and compassionately, while being receptive and responsive to patient's concerns. She/he will be able to explain her decisions and actions as they relate to possible outcomes and their wider impact.*

4. Student presentation of new information in area of study. The preceptor evaluates the correctness of the information presented. This counts for 5% of the grade.

Study Questions

1. Describe the use of ophthalmic prophylaxis in the newborn. Describe the substances that are used and outline the effectiveness of each. For each substance named, describe the expected action, dosage and route, contraindications, side effects/adverse reactions.
2. Describe the use of anti-hemorrhagic prophylaxis for the newborn. Describe the substances that are used and outline the effectiveness of each. For each substance named, describe the expected action, dosage and route, contraindications, side effects/adverse reactions.
3. Describe the uses and composition of colostrum. Review the benefits of each of its components, how it should be administered and how often.
4. Describe the uses of oxygen for the neonate. Describe its expected action; what are the known risks of overdose and how does oxygen overdose occur.
5. Describe the uses of epinephrine, narcan, bicarbonate and normal saline in resuscitation of the newborn.

Clinical Skills (NARM Skills)

I. Midwifery Counseling, Education and Communication

(1)-I A. Provides interactive support and counseling and/or referral services to the mother regarding her relationships with her significant others and other healthcare providers

(3)-I C. Provides education and counseling based on maternal health/reproductive/family history and on-going risk assessment

(6)-I F. Educates the mother concerning the natural physical and emotional processes of pregnancy, labor, birth and postpartum

(7)-I G. Applies the principles of informed consent

(8)-I H. Provides individualized care

(9)-I I. Advocates for the mother during pregnancy, birth and postpartum

I J. Provides education, counseling and/or referral, where appropriate for:

(11)-I J 2. Abuse issues: emotional, physical and sexual

(13)-I J 4. Diet, nutrition and supplements

(14)-I J 5. Effects of smoking, drugs and alcohol use

(15)-I J 6. Situations requiring an immediate call to the midwife

(16)-I J 7. Sexually transmitted diseases

(17)-I J 8. Complications

(18)-I J 9. Environmental risk factors

(19)-I J 10. Newborn care including normal/abnormal newborn activity, responses, vital signs, appearance, behavior, etc

II. General Healthcare Skills

(21)-II A. Demonstrates Universal Precautions

(22)-II B. Demonstrates the application of OSHA regulations as they relate to midwifery workplace

(23)-II C. Demonstrates the application of aseptic technique

II D. Demonstrates the use of instruments and equipment including:

(25)-II D 2. Bag and mask resuscitator

(28)-II D 5. Cord clamp and/or cord tape

(37)-II D 14. Needle and syringe

VII. Well-Baby Care

(149)-VII A. Provides well-baby care 2-6 weeks

(151)-VII C. Provides treatment for common newborn conditions such as cradle cap, diaper rash, thrush and colic

Core Competencies (MANA Core Competencies for Midwives)

I. Guiding Principles of Practice.

The midwife provides care according to the following principles:

1 H. Midwives recognize the empowerment inherent in the childbearing experience and strive to support women to make informed decisions and take responsibility for their own well-being.

1 J. Midwives synthesize clinical observations, theoretical knowledge, intuitive assessment and spiritual awareness as components of a competent decision making process.

1 K. Midwives value continuity of care throughout the childbearing cycle and strive to maintain continuous care within realistic limits.

1 L. Midwives understand that the parameters of “normal” vary widely and recognize that each pregnancy and birth is unique.

II. General Knowledge and Skills

The midwife provides care incorporating certain concepts, skills and knowledge from a variety of health and social sciences including, but not limited to:

2 C. Community standards of care for women and their developing infants during the childbearing cycle, including midwifery and bio-technical medical standards and the rationale for and limitations of such standards

2 M. The ability to develop, implement and evaluate an individualized plan for midwifery care.

2 N. Woman-centered care, including the relationship between the mother, infant and their larger support community.

2 O. Knowledge and application of various health care modalities as they apply to the childbearing cycle

IV. Care During Labor, Birth and Immediately Thereafter

The midwife provides health care, support, and information to women throughout labor, birth and the hours immediately thereafter. She determines the need for consultation or referral as appropriate. The midwife uses a foundation of knowledge and/or skill which includes the following:

4 L. Understanding of and appropriate support for the newborn's transition during the first minutes and hours following birth.

VI. Newborn Care

The entry-level midwife provides health care to the newborn during the postpartum period and support and information to parents regarding newborn care. She determines the need for consultation or referral as appropriate. The midwife uses a foundation of knowledge and/or skill which includes the following:

- 6 A. Anatomy, physiology and support of the newborn's adjustment during the first days and weeks of life
- 6 B. Parameters and methods for evaluating newborn wellness including relevant historical data and gestational age.
- 6 C. Nutritional needs of the newborn.
- 6 D. Community standards and state laws regarding indications for, administration of, and the risks and benefits of prophylactic bio-technical treatments and screening tests commonly used during the neonatal period.
- 6 E. Causes of, assessment of, appropriate treatment and emergency measures for neonatal problems and abnormalities.