



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Allied Medical Sciences
Paramedic Program
Second Semester
2013/2014
Course Syllabus

| Course Information | |
|------------------------------|---|
| Course Title | Paramedic Management of Obstetric-Pediatric Emergencies |
| Course Code | Para 324 |
| Prerequisites | Para 303 |
| Course Website | - |
| Instructor | Rawan Tawalbeh |
| Office Location | Faculty of Applied Medical Sciences |
| Office Phone # | None |
| Office Hours | |
| E-mail | Ratawalbeh8@just.edu.jo |
| Teaching Assistant(s) | |

| Course Description |
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| <p>This course will introduce the students to fetal, maternal, and pediatric basic sciences. Gynecologic, obstetric, and pediatric emergencies will be discussed thoroughly. Students will have the opportunity to participate in normal and abnormal obstetrical problems at the clinical and/or preclinical environment as possible.</p> <p>Assessment of the gynecologic patient, deliveries (normal, abnormal, and complicated), routine care of the neonate, care of distressed infant, neonatal emergencies, and patient interviewing also are addressed in this course. Although PALS will be discussed in this course, but it is student's responsibility to obtain a PALS certificate from the AHA (optional but highly recommended).</p> |

| Textbook | |
|-------------------------|---|
| Title | Paramedic Practice Today |
| Author(s) | Barbara Aehlert (Ed.) |
| Publisher | Mosby JEMS Elsevier |
| Year | 2010 |
| Edition | Volume 2 |
| Book Website | http://evolve.elsevier.com/Aehlert/paramedic |
| Other references | |

| Assessment | | |
|-------------------|---|-------------------|
| Assessment | Expected Due Date | Percentage |
| First exam | | 20% |
| Second exam | | 20% |
| Lab (Attendance) | | 5% |
| Clinical forms | - | 15% |
| OB Lab Final exam | | 13% |
| Final exam | (13 grades will be included from OB Lab final exam) | 27% |
| Total | | 100% |

| Course Objectives | Percentage |
|---|-------------------|
| 1. This course will cover specific gynecologic emergencies. | 5% |
| 2. This course will give an introduction about basic knowledge of obstetrician including terminology, anatomy and physiology of the pregnant patient. | 5% |
| 3. This course will cover assessment and general management with the pregnant patient. | 5% |
| 4. This course will cover the complications of early and late emergencies. | 5% |
| 5. This course will cover normal childbirth including labor and delivery. | 5% |
| 6. This course will cover the post delivery care of both the mother and her infant. | 5% |
| 7. This course will cover a variety of complications associated with childbirth and the required medical assistant in each case. | 5% |
| 8. This course will discuss neonatal transitional physiology and their adjustments to external life. | 5% |
| 9. This course will discuss factors associated with increased risk for neonatal resuscitation. | 5% |
| 10. This course will cover the resuscitation of the newborn and its initial and advanced steps. | 5% |
| 11. This course will discuss specific newborn situations that will require effective EMS management. | 5% |
| 12. This course will cover the concept of illness and injury prevention. | 5% |
| 13. This course will cover assessment of ill and injured child. | 5% |
| 14. This course will cover general management of infant and children, including respiratory and circulatory support. | 5% |
| 15. This course will discuss specific pathophysiologies and its assessment and management. | 5% |
| 16. This course will cover pediatric trauma and its considerations. | 5% |
| 17. This course will cover the concepts of child abuse and SIDS and their considerations. | 5% |
| 18. This course will discuss children with special healthcare needs. | 5% |
| 19. This course will encourage the effective participation of students into the contents through clinical and preclinical sessions. | 5% |
| 20. This course will encourage the engagement of evidence-based practice. | 5% |

Teaching & Learning Methods

- Objectives of the course will be achieved through class lectures / presentations, videos, and case studies as possible.
- Students are expected to attend OB labor lab as assigned.
- Students will attend clinical laboratory that will demonstrate basic skills.
- Students are mandated to attend clinical rotations at pediatric and maternity hospital wards as assigned previously.
- You are responsible for all material covered in the class.
- Your engagement during lectures is essential; discussions are highly encouraged.
- Please communicate any concerns or issues as soon as possible either in class or by E-mail.

Teaching duration:

- Duration: 14 weeks
- Lectures: 24 lecture, 60 minutes each, does not include exam and revisions days.
- Clinical: Clinical rotations at both pediatric wards AND OB departments as assigned by the department.
- Laboratory: 2 weeks within rotations at the paramedic simulation lab.

Learning Outcomes: Upon successful completion of this course, students will be able to

| | Related Objective(s) | Reference(s) Handouts |
|----|---|--------------------------|
| 1 | Understand the etiology of different gynecologic emergencies. | Ch. 35 |
| 2 | Understand basic assessment and management of gynecologic emergencies | Ch. 35 |
| 3 | Understand basic terms pertaining to obstetrician. | Ch. 35 |
| 4 | Understand fetal development, maternal physiology, and maternal metabolism and needed nutrition. | Ch. 35 |
| 5 | Demonstrate the ability and knowledge to assess and help in safe management of the pregnant patient. | Ch. 35 |
| 6 | Understand the possible complications that are associated with early stages of pregnancies well as possible complications associated with late stages of pregnancies. | Ch. 35 |
| 7 | Demonstrate their understanding to assess for the possible complications associated with early and late stages of pregnancies. | Ch. 35 |
| 8 | Describe the different stages of labor and the associated medical care needed during each stage. | Ch. 35 |
| 9 | Understand delivery procedure and the required preparations for it. | Ch. 35 |
| 10 | Demonstrate their understanding of their role as paramedics during emergency deliveries on filed. | Ch. 35 |
| 11 | Demonstrate an understanding of the decision whether to deliver on scene or to transport to a medical facility. | Ch. 35 |
| 12 | Demonstrate an understanding of the need to be delivered to the mother and her newborn post delivery. | Ch. 35 |
| 13 | Understand the etiology of the different complications associated with childbirth. | Ch. 35 |
| 14 | Demonstrate an understanding of the management of each childbirth complication. | Ch. 35 |

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| 15 | Understand the transitional physiology of neonates from uterine life to external life. | Ch. 36 |
| 16 | Understand the factors that contribute to an increase in risk for neonatal resuscitation including selected congenital anomalies. | Ch. 36 |
| 17 | Understand the equipments needed for neonatal resuscitation and the skills needed for effective assessment and successful resuscitation. | Ch. 36 |
| 18 | Understand their role as paramedics in the management of selected newborn life threatening situations, including meconium aspiration, seizure, etc. | Ch. 36 |
| 19 | Demonstrate an understanding of pediatric chain of survival, and their ability to prevent pediatric injuries. | Ch. 37 |
| 20 | Demonstrate their ability to perform scene size up, initial assessment, vital signs, obtain history examination, and physical examination of children in different age groups. | Ch. 37 |
| 21 | Demonstrate their understanding of airway management, breathing support, as well as circulatory support including peripheral IV and IO access. | Ch. 37 |
| 22 | Understand transportation consideration during management of a child. | Ch. 37 |
| 23 | Understand the etiology of the different pathophysiologies affecting pediatrics, including shock, seizures, respiratory compromise and many others. | Ch. 37 |
| 24 | Understand their role as paramedics in the assessment and management of the selected pathophysiologies affecting pediatrics, including shock, seizures, respiratory compromise and many others. | Ch. 37 |
| 25 | Understand the different mechanism of injuries (MOI) associated with pediatric trauma. | Ch. 37 |
| 26 | Understand the etiology of specific injuries affecting pediatric population. | Ch. 37 |
| 27 | Demonstrate understanding of the special considerations associated with pediatric trauma. | Ch. 37 |
| 29 | Demonstrate their ability to distinguish between accidental and inflicted injuries and detect the possibility of child abuse. | Ch. 37 |
| 30 | Understand their role as paramedics in child abuse situations. | Ch. 37 |
| 28 | Demonstrate an understanding of the use of analgesia and sedation for pediatrics on filed. | Ch. 37 |
| 31 | Understand the etiology of SIDS and the appropriate interventions with it. | Ch. 37 |
| 33 | Participate effectively in discussions. | Ch. 37 |
| 34 | Demonstrate an understanding of the up-to-date emergency management of gynecologic, obstetric, neonatal, and pediatric populations. | Ch. 37 |

Useful Resources

Journals in prehospital emergency care and emergency medical services.

| Course Content* | | |
|------------------------|---|---------------------------------------|
| Week | Topics | Chapter in Textbook (handouts) |
| 1. a. | Introduction to the course | Course Syllabus |
| 1. b. | History taking of gynecology Assessment and management of the pregnant patient | Ch. 35 |
| 2. a. | Gynecologic Emergencies | Ch. 35 |
| 2. b. | Obstetric: Anatomy, physiology, terminology | Ch. 35 |
| 3. a. | Obstetric: Complications of pregnancy: early and late | |
| 3. b. | Normal child birth | Ch. 35 |
| 4. a. | Post delivery care: for the mother and infant Complications of childbirth I | Ch. 35 |
| 4. b. | Complications of childbirth II | Ch. 35 |
| 5. a. | Principles of resuscitation of the newly born | Ch. 36 |
| 5. b. | First Exam | |
| 6. a. | Revision of First exam | |
| 6. b. | Initial steps of resuscitation of the newly born I | Ch. 36 |
| 7. a. | Initial steps of resuscitation of the newly born II | Ch. 36 |
| 7. b. | Specific new born situations I | Ch. 36 |
| 8. a. | Holiday | |
| 8. b. | Specific new born situations II | Ch. 36 |
| 9. b. | Holiday | |
| 9. b. | Assessment of the ill and injured child I | Ch. 37 |
| 10. a. | Assessment of the ill and injured child II | Ch. 37 |
| 10. b. | General management of infants and children | Ch. 37 |
| 11.a. | Second exam | |
| 11.b. | Revision of Second exam | |
| 12.a. | Specific pathophysiology, assessment, and management I | Ch. 37 |
| 12.b. | Specific pathophysiology, assessment, and management II | Ch. 37 |
| 13.a. | Shock in Pediatric Population | Ch. 37 |
| 13.b. | Pediatric trauma I | Ch. 37 |
| 14.a. | Pediatric trauma II | Ch. 37 |
| 14.b. | Analgesia and sedation | Ch. 37 |
| 15.a. | PALS | Ch. 37 |
| 15.b. | Revision | |
| | The beginning of final exams | |

*Date of contents may stretch with time if needed.

| Clinical Laboratory contents | |
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| OB Lab Day | Topics |
| Day 1 | Introductory videos to Labor and Delivery |
| Day 2 | Demonstration of normal (uncomplicated) Labor |
| Day 3 | Complicated labor and delivery (Videos and demo) |
| Day 4 | Practice! Practice! Practice! |
| Final OB Lab exam | May 27, 2014 |
| TBA | Clinical skills exam |

Clinical requirements

- Due to difficulties entering the labor rooms in the clinical field, there will be a preclinical laboratory to demonstrate labor and newborn resuscitation on campus. **Albeit students will still be able to access different OB departments as possible other than Labor room.**
- Students will be divided into groups and will be rotated as appropriate to the OB lab during this semester.
- Each student will be granted a grade from 5 upon his/her attendance and participation on this OB lab.
- At the end of the semester, there will be a final clinical exam to evaluate each student on their understanding of the content of the OB lab. This final lab exam will be of a total of 13, to be included in the final exam (13 from 40%).
- Each student is required to perform minimum of 5 pediatric patient assessments during clinical rotations in pediatric wards.
- Each student is required to assist in emergency care during his/her clinical rotations in the emergency departments.
- Each student is required and responsible to fill in and document (see the attached clinical form) his/her own interactions with their patients in the provided documentation (hospital) form.
- Each student is mandated to submit their paper/ documentation work of each week at the end of each week by Thursday of that week. Any documentation paper after that Thursday will NOT be accepted and grades will be affected.
- These papers/ clinical forms weigh 15% of the total grade.
- PALS certificate from the AHA is optional but highly recommended by the completion of this course.

Additional Notes

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| Drop date | Review the Calendar |
| Academic integrity | <p>All graded clinical forms and documentations must be your own work. Helping other students to cheat in any way or form will not be tolerated.</p> <p>If we become aware of any violations of these rules, we will initiate the actions described in the Policy of Academic Integrity.</p> <p>Each student is responsible to have their daily documentations signed by their preceptors at each department, unit, or station.</p> |
| Attendance | <p>Excellent attendance is expected.</p> <p>You must report to the supervisor/ preceptor assigned at each department, unit, or station you are assigned to by the beginning of your shift.</p> <p>JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 10% of the classes without a valid excuse.</p> <p>Attendances will be followed with each preceptor.</p> |

Best wishes in your semester
Rawan Tawalbeh, MS, BSN