

**UNIVERSITY OF JORDAN**  
**FACULTY OF MEDICINE**  
**DEPARTMENT OF ANESTHESIA AND INTENSIVE CARE**

**Course Description of Anesthesia and  
Intensive Care for 4<sup>th</sup> year Medical  
Students**

**(6 pages)**

*Last Updated; September 2009*

**UNIVERSITY OF JORDAN**  
**FACULTY OF MEDICINE**  
**DEPARTMENT OF ANESTHESIA AND INTENSIVE CARE**  
**COURSE / ROTATION OUTLINE**

<b>Classification:</b>	MEDICINE
------------------------	----------

<b>Compliant Catalogue:</b>	
<b>Course Code:</b>	0508411
<b>Course Title:</b>	Anesthesia and Intensive Care
<b>Credit Hours:</b>	4.5 Credit hours
<b>Year Level:</b>	Fourth Year
<b>Round Schedule:</b>	Every Four Weeks
<b>Tutorial Schedule:</b>	Daily mid-day Seminars
<b>Duration ( weeks)</b>	4 weeks

<b>Course Coordinator:</b>	Dr Ibraheem Y. QUDAISAT
<b>Prepared by:</b>	Dr Ibraheem Y. QUDAISAT
<b>Date of Outline Preparation:</b>	September 2008
<b>Date of Last Revision:</b>	September 2009
<b>Checked by:</b>	Dr Subhi M. ALGHANEM
<b>Approved by Head of Department:</b>	Dr Subhi M. ALGHANEM

UNIVERSITY OF JORDAN  
FACULTY OF MEDICINE  
DEPARTMENT OF ANESTHESIA AND INTENSIVE CARE

## ROTATION OUTLINE

### 1. Rotation Description:

A four-week Rotation in the Department of Anesthesia and Intensive Care. The course rotation starts with a 4-day sub-rotation in the Skills Lab in the faculty of medicine where they are taught some essential life support & anesthesia skills. They then continue in the Department of anesthesia & Intensive Care where they spend 16 working days divided into 4-day rounds. At the end of each round students move to a different working area in the department. They spend 3 rounds in the Operating Rooms and one round in the Intensive Care Unit. During that, they are exposed to a different discipline in the specialty and its interaction with different surgical and medical teams. They are provided with necessary theoretical and practical knowledge throughout their rotation.

### 2. Rotation Objective:

By the end of the Rotation, students are expected to:

- 1- Be learned of the necessary knowledge about Anesthesia and Intensive Care. This knowledge is intended to be adequate for their graduation as general practitioners.
- 2- Master specific skills that will be vital in their future medical profession.
- 3- Develop communication skills in and about anesthesia and Intensive Care.
- 4- Adopt an integrated way of thinking when decisions about Anesthesia and Intensive Care are taken.

### 3. Rotation Expected Outcomes:

The Course is intended to achieve the following outcomes:

- 1- Student is fully enlightened about anesthesia and Intensive Care and their integrated role among other medical disciplines.
- 2- Student is able to provide a best guess decision, advice, and interaction when anesthetic management plans are discussed with his /her future patients.
- 3- Student is armored with important techniques capabilities necessary for his future practice as a doctor.

- 4- Student develops adequate communication skills pertaining to Anesthesia and Intensive Care.

#### 4. Suggested Textbooks and Readings:

- 1- **Lecture Notes: Clinical Anesthesia:** Carl Gwinnutt, 3<sup>rd</sup> edition.
- 2- **Perioperative Care, Anesthesia, pain Management, and Intensive Care: An Illustrated Colour Text:** by Michael Avidan, Andrea M. R. Harvey, Jose Ponte, Julia Wendon, and Robert Ginsburg
- 3- International Anesthesia Journals.
- 4- Websites of National and International Anesthesia Colleges and Associations.

#### 5. Teaching Materials made available to Students:

- 1- Textbooks of the course.
- 2- Blackboard facility on the Jordan University website.
- 3- Anesthesia and Intensive Care books in the Department's library.
- 4- Anesthesia and Intensive Care books in the Library of the Faculty of Medicine.
- 5- Anesthesia and Intensive Care books at Jordan University Hospital's Library.
- 6- Anesthesia Periodicals in the Main University's Library including web-based subscription.

#### 6. Educational Facilities:

- 1- Seminar Room equipped with white board, overhead projector and Data show.
- 2- University Website with blackboard display of Anesthesia and Intensive Care Course.
- 3- Operating theatres and Intensive Care Unit for practical and hands-on teaching.

4- Manikins.

5- Simulation Lab in the Faculty of Medicine.

7- Rotation Content Outline:

The Following Topics and Skills will be covered throughout the rotation:

**7.1 Topics:**

<i>Skills Lab Rotation *</i>	<b>Cardiopulmonary Resuscitation</b>
	<b>Intubation and airway management</b>
	<b>Regional anesthesia</b>
	<b>Intravenous , Arterial and Central Lines</b>
<i>Departmental Rotations</i>	<b>Introduction to Anesthesia and Intensive Care</b>
	<b>Pre-Operative patient Assessment, Preparation and Premedication</b>
	<b>Intravenous Anesthetic Drugs</b>
	<b>Inhalational anesthetic Drugs</b>
	<b>Neuromuscular Blocking Drugs</b>
	<b>Anesthesia Equipment</b>
	<b>Pain and Narcotic Drugs</b>
	<b>Ventilation</b>
	<b>Hypoxia and Oxygen Therapy</b>
	<b>Fluid Management and Blood Transfusion</b>
	<b>Respiratory failure</b>
	<b>Monitoring in Anesthesia and Intensive Care</b>
	<b>Trauma</b>
	<b>Emergency Anesthesia</b>
	<b>Shock</b>
	<b>Pediatric anesthesia</b>

## 7.2 Skills:

No.	<i>Skill</i>
1.	<b>Securing Intra-Venous Access (Peripheral Venous Cannulation).</b>
2.	<b>Setting up Intra-Venous Infusion.</b>
3.	<b>Preparation of Intravenous drugs.</b>
4.	<b>Airway Management in unconscious patients</b>
5.	<b>Cardiopulmonary Resuscitation Skills</b>
6.	<b>Proper application and use of Monitoring devices</b>

**\*\* Students are only asked to observe more invasive and sophisticated procedures.**

## 8. Instructional Methods:

- 1- A daily Seminar covering one of the course topics.
- 2- Case Discussions in the operating theatres and Intensive Care Unit.
- 3- Assigned numbers of procedures Performance.
- 4- Hands-on Teaching of Procedures.

## 9. Students Rotation Evaluation Methods:

**Rotation Evaluation Mark is based on the following:**

- 1- Attendance
- 2- Preparation.
- 3- Participation
- 4- Attitude.
- 5- Cumulative improvement

**\* Students are evaluated daily and student's Rotation Evaluation Mark is calculated as the average of his/her daily marks.**

## 10. Major Evaluation Dates:

<b>Rotation Final Evaluation:</b>	<b>End of Semester OSCE exam for those groups who attended the Rotation.</b>
<b>End of Year Final Evaluation:</b>	<b>As suggested by University Calendar.</b>

**END**