



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Anesthesia Technology Department

ANET326 Anesthesia For Day Surgery - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

1 Credit Hours. This specialized course is designed to equip students with the knowledge, skills, and strategies essential for the safe and efficient delivery of anesthesia in the context of day surgery, also known as ambulatory or outpatient surgery. Students will explore the unique considerations, challenges, and best practices associated with providing anesthesia care for patients undergoing procedures with same-day discharge. The course is structured to address the distinct aspects of anesthesia delivery in the day surgery setting, emphasizing optimization of patient outcomes, rapid recovery, and streamlined perioperative pathways.

Teaching Method: On Campus

Text Book

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| Title | Morgan and Mikhail's Clinical Anesthesiology |
| Author(s) | Butterworth, John, et al. |
| Edition | 6th Edition |
| Short Name | 1 |
| Other Information | |

Instructor

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| Name | Dr. Maram Alakhras |
| Office Location | - |
| Office Hours | Sun : 12:00 - 13:30 Mon : 11:00 - 12:30 Tue : 13:00 - 14:30 Wed : 11:00 - 12:30 |
| Email | mmalakhras@just.edu.jo |

Class Schedule & Room

Section 3:

Lecture Time: Mon : 11:30 - 13:00

Room: NG76

Prerequisites

| Line Number | Course Name | Prerequisite Type |
|-------------|--|----------------------|
| 1173810 | ANET381 Regional And Local Anesthesia | Prerequisite / Study |
| 1173310 | ANET331 Anesthesia Equipment And Supplies li | Prerequisite / Study |

Tentative List of Topics Covered

| Weeks | Topic | References |
|---------------|---|------------|
| Weeks 1, 2, 3 | Patient Selection and Assessment: Criteria for patient selection for day surgery, preoperative evaluation, risk stratification, and identification of factors influencing suitability for same-day discharge. | From 1 |
| Weeks 4, 5 | Anesthetic Techniques: Selection and tailoring of anesthesia techniques appropriate for day surgery procedures, including regional anesthesia, intravenous sedation, and balanced anesthesia approaches. | From 1 |
| Weeks 6, 7, 8 | Enhanced Recovery Protocols: Implementation of enhanced recovery after surgery (ERAS) protocols and multimodal analgesic strategies to optimize perioperative pain management, minimize postoperative nausea and vomiting (PONV), and accelerate recovery. | From 1 |
| Weeks 9, 10 | Fast-Track Pathways: Development and implementation of fast-track anesthesia pathways, emphasizing efficient perioperative processes, minimal fasting durations, early ambulation, and expedited discharge criteria. | From 1 |
| Weeks 11, 12 | Perioperative Monitoring: Utilization of appropriate monitoring modalities, such as non-invasive blood pressure monitoring, pulse oximetry, end-tidal carbon dioxide (ETCO ₂) monitoring, and temperature monitoring, to ensure patient safety and timely detection of complications. | From 1 |
| Week 13 | Management of Emergencies: Preparation for and management of perioperative emergencies in the day surgery setting, including strategies for rapid response, airway management, and hemodynamic stabilization. | From 1 |
| Weeks 14, 15 | Patient Education and Counseling: Communication strategies for providing preoperative education, setting expectations, and addressing patient concerns regarding day surgery procedures, anesthesia, and postoperative recovery. | From 1 |
| Week 16 | Final Exams | |

| Mapping of Course Outcomes to Program Outcomes and NQF Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|---|-------------------------------------|-------------------|
| Understand the unique considerations and challenges associated with providing anesthesia for patients undergoing day surgery procedures. [1PLO 1] [1L7K1] | 25% | Mid-term Exam |

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| Demonstrate proficiency in the administration and monitoring of anesthesia agents and adjunctive medications used in day surgery settings. [1PLO 2] [1L7S2] | 25% | Mid-term Exam |
| Evaluate the role of multimodal analgesia and regional anesthesia techniques in enhancing postoperative pain management and promoting early discharge for day surgery patients. [1PLO 4] [1L7C4] | 25% | Mid-term Exam, Final Exam |
| Develop strategies for managing common perioperative complications and emergencies encountered in day surgery, such as postoperative nausea and vomiting (PONV), respiratory depression, and hemodynamic instability. [1PLO 3] [1L7C3] | 25% | Final Exam |

| Relationship to Program Student Outcomes (Out of 100%) | | | | | |
|--|-------|-------|-------|-------|-------|
| PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 | PLO 6 |
| 25 | 25 | 25 | 25 | | |

| Relationship to NQF Outcomes (Out of 100%) | | | |
|--|------|------|------|
| L7K1 | L7S2 | L7C3 | L7C4 |
| 25 | 25 | 25 | 25 |

| Evaluation | |
|-----------------|--------|
| Assessment Tool | Weight |
| Mid-term Exam | 60% |
| Final Exam | 40% |

| Policy |
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| <p>Code of Conduct and Academic Integrity Guidelines</p> | <p>Statement on Professionalism: Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.</p> <p>Cheating: University regulations will be applied on cases of cheating and/or plagiarism</p> <p>Cell phone: The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.</p> <p>Attendance: No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes!</p> <p>Absences: University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)</p> <p>Make-up Exam: is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)</p> <p>Feedback: Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours.</p> |
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