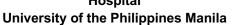


DEPARTMENT OF ANESTHESIOLOGY **College of Medicine and Philippine General** Hospital





ANESTHESIOLOGY 251 Integrated Clinical Clerkship in Anesthesiology II (Academic Year 2023 - 2024)

Course Description

Basic competencies in anesthesia and analgesia with supervised participation in the administration of general and regional anesthesia, sedation, and airway management

The College of Medicine of the University of the Philippines is one of the few medical schools in the country wherein the specialty of Anesthesiology is taught extensively. A required clinical rotation in Anesthesiology during clerkship in the medical curriculum ensures that all students are exposed to fundamental clinical material. The course provides didactics and activity oriented clinical participation which focuses on principles of anesthesia and analgesia; basic skills in sedation, airway management, and regional block; and recognition of the different stages of anesthesia and its corresponding management.

Learning Objectives

At the end of the course, the student should be able to:

- 1. Integrate clinical data to determine peri-operative requirements for anesthesia given a simulated patient for surgery.
 - a. Conduct a comprehensive pre-anesthesia evaluation.
 - b. Perform a thorough assessment of the airway.
 - c. Stratify properly the risks of the patient according to the American Society of Anesthesiologists (ASA) Physical Status classification.
 - d. Appraise effectively a patient's requirement for pre-anesthetic medications.
 - e. Determine the appropriate type of anesthesia for the patient and the type of surgery.
 - f. Outline the appropriate drugs in the anesthetic induction, maintenance, and emergence.
 - g. Outline the fluid management of the patient in the peri-operative period.
 - h. Interpret intra-operative monitors accurately.
 - i. Assist in the management and intervention of common complications of general and regional anesthesia during intraoperative management.
 - j. Outline an evidence-based postoperative pain management plan.
- 2. Perform anesthesia workstation check to ensure preparedness to administer anesthesia.
- 3. Demonstrate management of the airway of patients for general anesthesia.
- 4. Demonstrate lumbar puncture for patients to undergo regional anesthesia subarachnoid blocks.
- 5. Communicate effectively with the various members of the anesthesia management, operative team, patients, and their relatives.

Course Outline

- I. Clinical Practice of Anesthesia
 - A. Preoperative Evaluation and Management
 - B. Airway Management
 - C. Fluids and Electrolytes
 - D. General Anesthesia
 - E. Regional Anesthesia
- II. Scientific and Technical Foundations of Anesthesia
 - A. The Anesthesia Workstation

- B. Standard Anesthesia Monitoring Techniques and Instruments
- C. Inhalational Anesthetic Agents
- D. Intravenous Anesthetics and Sedatives
- E. Analgesics
- F. Neuromuscular Blocking Agents
- G. Local Anesthetics

Mode of Delivery

Anesthesiology 251 is a two-week rotation in the Department of Anesthesiology for Learning Unit (LU) 6 students. Didactics and self-directed learning will be on the basic principles of anesthesia. Handson exposure will be conducted thru through clinical simulation and actual patient care under strict supervision.

Course Materials

- I. Clinical Practice of Anesthesia
 - A. Preoperative Evaluation and Management

1. Study guide

- Target learning outcomes:
 - Define preoperative evaluation. O Describe the components of preoperative evaluation. Stratify the risks of patients before anesthesia Determine if a patient requires preoperative laboratory testing. Discuss the preparation of a patient for anesthesia.
 - Appraise effectively a patient's requirement for preoperative medication.
- Read: Holt NF. (2015). Preoperative Evaluation and Management. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Video lecture on Preoperative Evaluation
- Dig deeper: ASA Inc. (2012). Practice Advisory for preanesthesia evaluation: An updated report by the American Society of Anesthesiologists Task Force on Preanesthesia Evaluation. Retrieved from http://www.asahq.org/quality-and-practice-management/standards-and-quidelines.

2. Activity guide

- Lecture: Preoperative Evaluation
- Exercise on ASA-PS classification: Based on what the clinical clerk has learned on ASA-PS classification system, different clinical scenarios will be provided to assess how well they are able to apply these concepts on theoretical patients.
- Actual Patient Care: Students are expected to evaluate their assigned patients prior to the procedure

3. Assignment

guide

- Task: Fill out the UP-PGH Anesthesiology Cardiopulmonary Risk Assessment and Pre-Anesthesia Evaluation form of the assigned patient to for surgery.
- Procedure: Download the UP-PGH Anesthesiology Cardiopulmonary Risk Assessment and Pre-Anesthesia Evaluation form. When you do you preoperative evaluation, use it as a guide and try to fill all the data required.

B. Airway Management

1. Study guide

• Target learning outcomes:

- Apply airway anatomy in the clinical setting.
- o Perform a thorough assessment of the airway.
- o Discuss various techniques in the clinical management of the airway.
- o Recognize difficult airway and possible interventions.
- Read: Abrons RO and WH Rosenblatt. (2015). Airway Management. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch:
 - Video lecture on Airway Management o Airway Evaluation
 - o Steps in Intubation using Direct Laryngoscopy
- Dig deeper: ASA Inc. (2013). Practice guidelines for management of the difficult airway: an
 updated report by the American Society of Anesthesiologists Task Force on Management of
 the Difficult Airway. Retrieved from http://www.asahq.org/quality-and-practice-management/standards-and-quidelines.

2. Activity guide

- Lecture: Airway Management
- Airway Demo-Return-Demo: Perform a thorough airway assessment given a simulated patient for surgery after watching a demonstration.
 Evaluation Criteria:

Criterion	5	3	1
Completeness	All relevant airway	Most relevant airway	Few relevant airway
	evaluation	evaluation	evaluation
	maneuvers were	maneuvers were	maneuvers were
	performed by the	performed by the	performed by the
	clinical clerk.	clinical clerk.	clinical clerk.
Accuracy	Airway evaluation	Some airway	Airway evaluation
	maneuvers and	evaluation	maneuvers and
	findings were	maneuvers and	findings were
	accurate and	findings were	inaccurate and
	correct.	accurate and	incorrect.
		correct.	
Communication	The clinical clerk	The clinical clerk	The clinical clerk did
	displayed excellent	displayed excellent	not display excellent
	communication and	communication and	communication and
	courtesy with the	courtesy with the	courtesy with the
	patient at all times.	patient most of the	patient at all times.
		time.	

 Actual Patient Care: Students are required to evaluate their patient's airway prior to the procedure

C. Fluids and Electrolytes

1. Study guide

- Target learning outcomes:
 - Summarize acid-base balance and its disturbances. O Interpret an arterial blood gas analysis systematically. O Discuss the physiology of fluid management. O Outline the fluid management of the patient in the perioperative period.
 - o Enumerate the presentation of common electrolyte disturbances.
- Read: Fink Hankinson EE and AM Joffe. (2015). Fluids and Electrolytes. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Video lecture on Fluid and Electrolytes

2. Activity guide

Lecture: Fluids and Electrolytes

 Actual Patient Care: Students will be able to observe perioperative fluid management and blood management

3. Exercise

- · Task: Fluids from Dr Shiela Espina-Bertoso
- Procedure: Answer the questions to the case provided. Submit your report on the provided portal.

D. General Anesthesia

1. Study guide

- Target learning outcomes:
- · Define general anesthesia.
 - o Describe the goals of general anesthesia.
 - o Understand the pre-anesthetic preparation process.
 - Understand the intraoperative management during general anesthesia. Enumerate immediate postoperative care goals.
- Read: Norris MC and R Saffary. (2015). General Anesthesia. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- · Watch:
 - Video lecture on General Anesthesia Basic Setup for General Anesthesia
- Dig Deeper: Guedel's Signs and Stages of General Anesthesia. In Dripps RD, JE Eckenhoff, and LD Vandam. (1957). Introduction to Anesthesia: The Principles of Safe Practice. W B Saunders Company.

2. Activity guide

- · Lecture: General Anesthesia
- Actual patient care: The clinical clerk will be able to participate in the anesthetic management
 of patients for general anesthesia from the preoperative, intraoperative, and immediate
 postoperative period.
- Skills: The clinical clerks are required to have 2 documented successful intubations during the rotation

3. Assignment

guide

- Task: Case discussion on General Anesthesia
- Procedure: Select one from your patients who underwent general anesthesia in Week 2.
 Discuss the case of your patient within a maximum of two pages, A4 paper size, single-spaced, Arial/Times New Roman 10, bearing in mind the criteria provided. Submit your report together with the preanesthesia evaluation and intraoperative record on the provided portal.
- Evaluation Criteria:

Criterion	5 4	3 2	1
Clinical Database	History and physical	History and physical	History and physical
	examination are	examination are	examination are
		mostly	
	complete, accurate,	complete, accurate,	incomplete,
	relevant to the	relevant to the	inaccurate, irrelevant
	patient's problems,	patient's problems,	to the patient's
	and wellorganized.	and organized.	problems, and poorly
	Laboratory findings	Laboratory findings	organized.
	are correctly	are somewhat	Laboratory findings
	interpreted and	correctly interpreted	are incorrectly
	wellcorrelated with	and correlated with	interpreted and
	clinical findings.	clinical findings.	poorly correlated
			with clinical findings.

Evaluation of Patient	Surgical diagnoses	Surgical diagnoses	Surgical diagnoses
Problems	and co-existing	and co-existing	and co-existing
1 Toblomo	diseases impacting	diseases impacting	diseases impacting
	anesthetic	anesthetic	anesthetic
	management are	management are	management are
	fully recognized,	mostly recognized,	poorly recognized,
	understood, and	understood, and	understood, and
	considered.	considered.	considered.
ASA Physical Status	Clinical risks are	Clinical risks are	Clinical risks are
Classification	evaluated logically	partially considered	poorly considered
Classification	based on clinical	based on clinical	based on clinical
	findings.	findings.	findings.
Preanesthetic	Preoperative	Preoperative	Preoperative
Preparation	instructions are	instructions are	instructions are
Freparation	organized and	mostly organized	poorly organized and
	wellprioritized.	and prioritized.	prioritized.
Patient Monitoring	Special concerns	Most concerns and	Special concerns
	and monitoring	monitoring needs of	and monitoring
	needs of the patient	the patient are	needs of the patient
	are recognized and	recognized and	are not recognized.
	taken into account.	taken into account.	
Induction of	Decision-making in	Decision-making in	Decision-making in
Anesthesia	the anesthetic	the anesthetic	the anesthetic
	technique, drug	technique, drug	technique, drug
	selection, airway	selection, airway	selection, airway
	management, and	management, and	management, and
	equipment	equipment	equipment
	preparation is	preparation is	preparation is
	correct, rational, and	somewhat correct,	incorrect, or
	logical.	rational, and logical.	irrational.
Intraoperative Period	Intraoperative	Intraoperative	Intraoperative
	management	management	management
	including surgical	including surgical	including surgical
	requirements, intravenous fluid	requirements,	requirements,
		intravenous fluid	intravenous fluid
	therapy, and possible	therapy, and possible	therapy, and possible
	complications is	complications is	complications is
	sound and rational.	mostly sound and	unsound and
	Souria and rational.	rational.	irrational.
Postoperative Period	Plans for	Plans for	Plans for
1 ootoporative i criod	postoperative care	postoperative care	postoperative care
	including a	including a	including a
	multimodal approach	multimodal approach	multimodal approach
	to pain management	to pain management	to pain management
	and patient	and patient	and patient
	disposition are	disposition are	disposition are
	organized and	somewhat organized	poorly organized.
	wellintegrated.	and integrated.	, ,

Written Report	Report is structured, systematic, interesting, and relevant, with proper citation of references and sources.	Report is structured with proper citation of most references and sources.	Report lacks structure relevance, and proper citation of references and sources.
Medical Record	Records are accurate, complete, and organized.	Records are mostly accurate, and complete.	Records are inaccurate, and incomplete.

- Due date: Sunday Week 2
- Practical Exam: Students will be graded while performing an observed intubation.

E. Regional Anesthesia

1. Study guide

- Target learning outcomes:
 - o Discuss the anatomy of the spinal cord and epidural space.
 - o Discuss the techniques used for neuraxial blocks.
 - o Discuss the pharmacology of the commonly used local anesthetics. o Discuss the physiological consequences of neuraxial blockade.
 - o Discuss the complications associated with neuraxial blockade.
- Read: Epidural and Spinal Anesthesia (2013). In Barash PG et al (Ed). Handbook of Clinical Anesthesia (7th ed).

Philadelphia, PA: Wolters Kluwer Health/Lippincott Williams & Wilkins.

- Watch:
 - o Video lecture on Regional Anesthesia
 - o Steps in Performing Lumbar Tap for Spinal Anesthesia
- Dig Deeper: ASRA (2018). Regional Anesthesia in the Patient Receiving Antithrombotic or Thrombolytic Therapy: American Society of Regional Anesthesia and Pain Medicine Evidence Based Guidelines (4th ed.). Retrieved from http://www.asra.com/advisory-guidelines

2. Activity guide

- Lecture: Regional Anesthesia
- Actual patient care: The clinical clerk will be able to participate in the anesthetic management
 of patients for regional anesthesia from the preoperative, intraoperative, and immediate
 postoperative period.
- Skills: students are required to perform two spinal taps

3. Assignment

quide

- Task: Case discussion on Regional Anesthesia
- Procedure: Select one from your patients who underwent regional anesthesia in Week 2. Discuss the case of your patient within a maximum of two pages, A4 paper size, single-spaced, Arial/Times New Roman 10, bearing in mind the criteria provided. Submit your report together with the preanesthesia evaluation and intraoperative record on the provided portal.

• Evaluation Criteria:

Criterion	5 4	3 2	1
Clinical Database	History and physical	History and physical	History and physical
	examination are	examination are	examination are
	complete, accurate,	mostly complete,	incomplete,
	relevant to the	accurate, relevant to	inaccurate, irrelevant
	patient's problems,	the patient's	to the patient's
	and wellorganized.	problems, and	problems, and poorly
	Laboratory findings	organized.	organized.
	are correctly	Laboratory findings	Laboratory findings
	interpreted and wellcorrelated with	are somewhat correctly interpreted	are incorrectly interpreted and
	clinical findings.	and correlated with	poorly correlated
	Cililical illialitys.	clinical findings.	with clinical findings.
Evaluation of Patient	Surgical diagnoses	Surgical diagnoses	Surgical diagnoses
Problems	and co-existing	and co-existing	and co-existing
	diseases impacting	diseases impacting	diseases impacting
	anesthetic	anesthetic	anesthetic
	management are	management are	management are
	fully recognized,	mostly recognized,	poorly recognized,
	understood, and	understood, and	understood, and
A O A DI	considered.	considered.	considered.
ASA Physical Status Classification	Clinical risks are	Clinical risks are	Clinical risks are
Classification	evaluated logically based on clinical	partially considered based on clinical	poorly considered based on clinical
	findings.	findings.	findings.
Preanesthetic	Preoperative	Preoperative	Preoperative
Preparation	instructions are	instructions are	instructions are
	organized and	mostly organized	poorly organized and
	wellprioritized.	and prioritized.	prioritized.
Patient Monitoring	Special concerns	Most concerns and	Special concerns
	and monitoring	monitoring needs of	and monitoring
	needs of the	the	needs of the
	patient are	patient are	patient are not
	recognized and	recognized and	recognized.
Induction of	taken into account.	taken into account.	Decision-making in
Anesthesia	Decision-making in the anesthetic	Decision-making in the anesthetic	the anesthetic
Allestilesia	technique, drug	technique, drug	technique, drug
	selection, airway	selection, airway	selection, airway
	management, and	management, and	management, and
	equipment	equipment	equipment
	preparation is	preparation is	preparation is
	correct, rational, and	somewhat correct,	incorrect, or
	logical.	rational, and logical.	irrational.
Intraoperative Period	Intraoperative	Intraoperative	Intraoperative
	management including surgical	management including surgical	management including surgical
	requirements,	requirements,	requirements,
	intravenous fluid	intravenous fluid	intravenous fluid
	therapy,	therapy,	therapy,
			and possible

	and possible complications is sound and rational.	and possible complications is mostly sound and rational.	complications is unsound and irrational.
Postoperative Period	Plans for postoperative care including a multimodal approach to pain management and patient disposition are organized and wellintegrated.	Plans for postoperative care including a multimodal approach to pain management and patient disposition are somewhat organized and integrated.	Plans for postoperative care including a multimodal approach to pain management and patient disposition are poorly organized.
Written Report	Report is structured, systematic, interesting, and relevant, with proper citation of references and sources.	Report is structured with proper citation of most references and sources.	Report lacks structure relevance, and proper citation of references and sources.
Medical Record	Records are accurate, complete, and organized.	Records are mostly accurate, and complete.	Records are inaccurate, and incomplete.

• Due date: Sunday after Week 2

II. Scientific and Technical Foundations of Anesthesia

A. The Anesthesia Workstation

1. Study guide

- Target learning outcomes:
 - Describe the functional anatomy of the anesthesia workstation.
 Discuss the delivery of gases in the anesthesia workstation.
 Describe the anesthesia breathing systems and relevant considerations.
 Define the scavenging system.
 - Perform an anesthesia workstation check to ensure preparedness to administer anesthesia.
- Read: Nathan N and TC Krejcie. (2015). The Anesthesia Workstation. In Barash PG et al (Ed). *Clinical Anesthesia Fundamentals*. Philadelphia, PA: Wolters Kluwer Health.
- Watch: The Anesthesia Workstation

2. Activity guide

• Actual Patient Care: practice checking the anesthesia workstation before every case

3. Exercise:

- Task: Exercise on the different parts of the anesthesia workstation
- B. Standard Anesthesia Monitoring Techniques and Instruments

1. Study guide

- Target learning outcomes:
 - o Describe the functional anatomy of the anesthesia workstation. o Discuss the delivery of gases in the anesthesia workstation. o Describe the anesthesia breathing systems and relevant considerations. o Define the scavenging

system. o Perform an anesthesia workstation check to ensure preparedness to administer anesthesia.

- Read: Fink RJ and JB Mark. (2015). Standard Anesthesia Monitoring Techniques and Instruments. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Video lecture on Monitoring
- Dig deeper: ASA Inc. (2015). Standards for Basic Anesthetic Monitoring. Retrieved from http://www.asahq.org/quality-and-practice-management/standards-and-guidelines.

2. Activity guide

- · Lecture: Basic Anesthesia Monitoring
- Actual Patient Care: Intraoperative monitoring during surgery

3. Exercise

- · Task: Quiz on different cardiac rhythms and capnography waveforms.
- Procedure: The clinical clerk will be asked to identify different rhythms on the cardiac monitor and different scenarios of capnography waveforms.

C. Inhalational Anesthetic Agents

1. Study guide

- Target learning outcomes:
 - o Discuss the pharmacology of inhalational anesthetic agents. o Describe the effects of inhalational anesthetic agents on the different organ systems.
 - o Select the appropriate volatile and nonvolatile anesthetics for clinical use.
- Read: Ramaiah R and SM Bhananker. (2015). Inhalational Anesthetic Agents. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Drugs in Anesthesia Part 1

3. Exercise

- Task: Quiz
- · Procedure: The clinical clerk will be asked to correctly answer items on inhalational anesthetic agents.

D. Intravenous Anesthetics and Sedatives

1. Study guide

- Target learning outcomes:
 - o Discuss the pharmacology of intravenous anesthetics. o Describe the effects of intravenous anesthetic on the different organ systems. o Select the appropriate intravenous anesthetics and sedatives for clinical use.
- Read: Connor CW, B Sadighi and J Black. (2015). Intravenous Anesthetics and Sedatives. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Drugs in Anesthesia Part 1

2. Exercise:

Quiz

Procedure: The clinical clerk will be asked to correctly answer items on intravenous anesthetics.

E. Analgesics

1. Study guide

- Target learning outcomes:
 - Discuss the pharmacology of nonopioid and opioid analogsics.
 - o Describe the effects of opioid analgesics on the different organ systems.
 - o Select the appropriate nonopioid and opioid analgesics for clinical use.

- Read: Thackeray EM and ED Egan. (2015). Analgesics. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Drugs in Anesthesia Part 2
- Dig Deeper: Australian and New Zealand College of Anaesthetists and Faculty of Pain Medicine. (2015). Acute Pain Management: Scientific Evidence (4th ed.). Retrieved from http://www.anzca.edu.au/ resources/collegepublications

2. Exercise

Quiz

Procedure: The clinical clerk will be asked to correctly answer items on analgesics.

F. Neuromuscular Blocking Agents

1. Study guide

- Target learning outcomes:
 - Discuss the physiology and pharmacology of neuromuscular blocking agents.
 Differentiate between non-depolarizing and depolarizing neumorumuscular block agents.
 Describe monitoring neuromuscular blockade.
 Discuss reversal for neuromuscular blockade.
 - Select the appropriate neuromuscular blocking and reversal agents for clinical use.
- Read: Brull SJ and C Claudius. (2015). Neuromuscular Blocking Agents. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health.
- Watch: Drugs in Anesthesia Part 2

2. Exercise

- · Task: Quiz
- Procedure: The clinical clerk will be asked to correctly answer items on neuromuscular blocking agents.

G. Local Anesthetics

1. Study guide

- Target learning outcomes:
 - Discuss the pharmacology of local anesthetics.
 - o Select the appropriate local anesthetics for clinical use.
- Read: Salinas FV. (2015). Local Anesthetics. In Barash PG et al (Ed). Clinical Anesthesia Fundamentals.
 - Philadelphia, PA: Wolters Kluwer Health.

2. Exercsie

Quiz

Procedure: The clinical clerk will be asked to correctly answer items on local anesthetics.

Course Requirements

Attendance	5%
Practical Exam (GA)	5%
Procedures	10%
Case Discussion	20%
SGD	10%
Airway Demo-return-demo	5%
Reflection Papers	5%
Finals	30%
Comprehensive Exam	10%
Total	100%

Reflection Paper – The clinical clerk must submit a two-page reflection paper (A4 paper size, single-spaced, Arial/Times New Roman 10) on a patient/s discussed during the Wednesday clinical case conference of Week 2.

 Evaluation Criteria:

Criterion	5 4	3 2	1
Organization	Information is very	Information is	Information is
	well organized with	organized but	disorganized.
	wellconstructed	paragraphs are not	
	paragraphs.	well-constructed.	
Quality of Information	Information clearly	Information clearly	Information has
	relates to the patient/s	relates to the patient/s	nothing to do with the
	discussed and	discussed but with no	patient/s discussed.
	includes several	supporting details	
	supporting details.	given.	
Mechanics	No grammatical,	A few grammatical,	Numerous
	spelling, or	spelling, or	grammatical, spelling,
	punctuation errors	punctuation errors	or punctuation errors
Sources	All references are	Most references are	References are not
	properly cited.	properly cited.	properly cited

- o Due date: Sunday Week 2
- Case Discussions The clinical clerk must submit two (2) case discussions on patients seen during
 the rotation, one for general anesthesia and one for regional anesthesia. This must be accompanied
 by their respective PATEC Cardiopulmonary Risk Assessment and Pre-Anesthesia Evaluation, and
 Anesthesia Intraoperative Record.
- Small group discussion Each block will be divided into two groups. Each group must select one from any of the patients personally managed by one of the members of the block in Week 2. Prepare a presentation discussing the case of your selected patient bearing in mind the criteria provided. The SGD may be done in person or virtually using Zoom on an greed day in Week 2 with the assigned consultant for your block.

 © Evaluation Criteria:

Criterion	5 4	3 2	1
Clinical Database	History and physical	History and physical	History and physical
	examination are	examination are	examination are
	complete, accurate,	mostly complete,	incomplete,
	relevant to the	accurate, relevant to	inaccurate, irrelevant
	patient's problems,	the patient's problems,	to the patient's
	and well-organized.	and organized.	problems, and poorly
	Laboratory findings	Laboratory findings	organized. Laboratory
	are correctly	are somewhat	findings are incorrectly
	interpreted and	correctly interpreted	interpreted and poorly
	wellcorrelated with	and correlated with	correlated with clinical
	clinical findings.	clinical findings.	findings.
Diagnosis	Diagnosis is correct	Diagnosis is correct	Diagnosis is incorrect
	and complete with	and mostly complete	and incomplete with
	logical differentials.	with some logical differentials.	irrelevant differentials.
Pathophysiology	The impact of the	The impact of the	The impact of the
	disease process and	disease process and	disease process and
	co-existing diseases	co-existing diseases	co-existing diseases
	on anesthetic	on anesthetic	on anesthetic
	management is	management is	management is poorly
	understood and	somewhat understood	understood and
	recognized.	and recognized.	recognized.
ASA Physical Status	Patient is risk stratified	Patient is risk stratified	Patient is risk stratified
Classification	correctly.	somewhat correctly.	incorrectly.
Anesthetic	Plan for anesthetic	Plan for anesthetic	Plan for anesthetic
Management	technique, induction,	technique, induction,	technique, induction,
	monitoring, fluid	monitoring, fluid	monitoring, fluid
	therapy, and acute	therapy, and acute	therapy, and acute
	pain management is	pain management is	pain management is
	rational and sound.	mostly rational and	irrational and
		sound.	unsound.
Intellectual Integrity	The clinical clerk	The clinical clerk	The clinical clerk does
	consistently shows	occasionally shows	not show intellectual
	intellectual honesty,	intellectual honesty,	honesty, and is not
	accepts limitations,	somewhat accepts limitations, and is	receptive to new
	makes a conscious	receptive to new	ideas.
	effort to improve, and	ideas.	
	is receptive to new	านบันอ.	
Attandanas	ideas.	The eliminal stantis	The eliminal stantain
Attendance	The clinical clerk is	The clinical clerk is	The clinical clerk is
	punctual and fully	punctual but is not	late and does not
Professional Ethics	participates. The clinical clerk is	fully participating. The clinical clerk is	willingly participate. The clinical clerk is
FIGUESSIONAL EURCS	considerate and		inconsiderate and
	respectful of others.	mostly considerate	disrespectful of others.
	respectiul of others.	and respectful of others.	uisrespectiui di dillers.
Oral Report	The clinical clerk	The clinical clerk	The clinical clerk
Oral Nepolt	speaks confidently	speaks somewhat	speaks inaudibly, and
	and is able to express	confidently and is able	is unable to express
	thoughts in a	to express thoughts in	thoughts in a
	ougino iri u	to oxproso triougino III	anoughto in a

	comprehensive	an understandable	comprehensive
	manner.	manner.	manner.
Presentation	The presentation is	The presentation is	The presentation lacks
Fresentation	structured, systematic,	structured with proper	structure relevance,
			*
	and interesting, with	citation of most	and proper citation of
	proper citation of	references and	references and
	references and	sources.	sources.
	sources.		

[•] **Final Examination** – This is a 60-item multiple choice question (MCQ) type examination to be scheduled at the end of the year. The coverage of the exams will include topics, lectures, and assigned readings during the rotation.

About the Faculty-in-

Charge

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References

Barash, P.G. et al. (2017). Clinical Anesthesia (8th ed.). Philadelphia, PA: Lippincott Willliams & Wilkins. Barash, P.G. et al. (2015). Clinical Anesthesia Fundamentals. Philadelphia, PA: Wolters Kluwer Health. Barash, P.G. et al. (2013). Handbook of Clinical Anesthesia (7th ed.). Philadelphia, PA: Wolters Kluwer Health/Lippincott Williams & Wilkins.

Jaffe, R.A. (2014). Anesthesiologist's Manual of Surgical Procedures (5th ed.). Philadelphia, PA: Wolters Kluwer Health