

DEPARTMENTAL HAND BOOK



DEPARTMENT OF ANAESTHESIA AND
INTENSIVE CARE

FACULTY OF CLINICAL SCIENCES

COLLEGE OF HEALTH SCIENCES

OBAFEMI AWOLOWO UNIVERSITY
ILE-IFE, NIGERIA

2019 EDITION

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VISION

The vision is of the Department of Anaesthesia and Intensive Care is to be a globally acclaimed centre of excellence in Anaesthesia training and health research and development through the use of dynamic and innovative curriculum to train and produce outstanding graduates; ensure high quality scholarly and research output that help health care providers to be responsive to the community through their community oriented services.

MISSION

The mission of the Department of Anaesthesia and Intensive Care of the University is to provide exceptionally high quality anesthesia and intensive care training through student centred programmes in a scholarly environment, fosters excellence in instructional delivery, research activities, compassionate patient care and health leadership.

INTRODUCTION AND GENERAL INFORMATION

Brief History of the Department

The Department of Anaesthesia was created in 1983 with Prof Shirley Kelly who was appointed from the United Kingdom, as the first head of department. She worked with the University for one year and left. Because of the dearth of qualified physician anaesthetists, three nurses were recruited into the department to be trained as anaesthetists and provide service in the hospital. At the same time, doctors were also employed as Research Fellows to be trained overseas to take over the running of the department from the expatriate staff. The Department was not able to employ the services of another permanent staff to man it until 1999 when Dr. A. F. Faponle was employed. Since then active training in Anaesthesia has commenced to urgently address the issue of the dearth of manpower. The department was accredited first for Postgraduate training in 2001 and now enjoys full accreditation from both National Postgraduate Medical College of Nigeria and West African College of Surgeons since 2013 till date. The Department produced the first Professor of Anaesthesia in the University in 2009. Also, the department has trained staff who are presently working in Obafemi Awolowo University and other universities in the sub-region including Ladoke Akintola University of Technology, Ogbomoso, Niger Delta University, Bayelsa State and the Ekiti State University Teaching Hospital, Ado-Ekiti, Ekiti State as Lecturers in Anaesthesia.

LOCATION

The Department is located in the second floor of Block Y, College of Health Sciences complex.

AIM

The aim of the department is to train health Care personnel who can work as a team in providing comprehensive Anaesthetic services for Perioperative care, Intensive Care services, Cardiopulmonary resuscitation, Pain management and Palliative care.

EDUCATIONAL GOALS AND OBJECTIVES

These are in line with the objectives of the OAU College of Health Sciences curriculum.

LIST OF MEMBERS OF STAFF:

Academic Staff

S/N	NAMES	QUALIFICATIONS	RANK	AREAS OF SPECIALISATION	ROOM NO.
1	Dr. S.O.A. Olateju (Acting Head of Department)	MBChB (Ogun)1995 DA(WACS) 2004 FMCA (2006) MPH (Ogun) 2010	Senior Lecturer	Obstetric anaesthesia Regional anaesthesia, Pain & Palliative care	3.50
2	Prof. A.F. Faponle	B.Sc (Ife)1979 MBChB (Ife)1982 DA (Ibadan)1988 FMCA (1999) FWACS(1999) Cert. (Cardiac Anaesthesia) 2009	Professor	Acute pain management Neuro-anaesthesia Obstetric anaesthesia Palliative care	3.33
3	Dr. A.T. Adenekan	MBBS (Jos) 1997 DA (WACS) 2004 FWACS 2007 Cert. (Cardiac Anaesthesia)	Senior Lecturer	Paediatric anaesthesia Cardiac anaesthesia Obstetric anaesthesia Pain management	2.44
4	Dr. A.M. Owojuyigbe	MBBS (Ib.) 2000 DA (WACS) 2009 FMCA 2011. Cert.(Critical care ed.) 2013, Cert. (Advanced clinical anaes)2017	Senior Lecturer	Critical Care Medicine and Anaesthesia outside the operating room	3.50
5	Dr. A.O. Adetoye	MBBS (IL) 2003 DA (WACS) 2009 FWACS 2013	Lecturer I	Regional anaesthesia and Interventional pain management	

6	Dr. O. I. Aaron	BSc. (Hons) 1997 MBBS (IL) 2004 DA (WACS) 2010 FMCA 2015 Cert. Paediatric Anaesthesia 2019	Lecturer I	Paediatric anaesthesia Regional anaesthesia	
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Administrative Non-Teaching Staff

1. Mrs. Olaseinde F. O - Chief Secretarial
2. Mrs. Adereti R. F. – Senior Secretarial Assistant II
3. Mrs. Oladosu S. A. – Senior Office Assistant

The Undergraduate Curriculum

A. COURSE DESCRIPTION

- (a) Course Code: CLI 503
- (b) Course Title: Anaesthesia and Intensive Care
- (c) Pre-Clinical/Clinical Year: 5
- (d) Number of Credits: 3 Units
- (e) Course/Posting Duration: 2 Weeks
- (f) Course Coordinators: Dr. S.O.A. Olateju/Dr. A. O. Adetoye

B. GENERAL DESCRIPTION

This is an intensive clinical posting. This includes active participation in the preoperative, intraoperative and postoperative management of the surgical patient, and patient/doctor relationship with regards to surgery and anaesthesia. Further, the understanding of different types of anaesthetic machines, drugs and resuscitating equipment is taught. Students will be exposed to different types of anaesthesia including general and regional, cardiopulmonary resuscitation, pain and palliative care management, intensive care medicine and other related aspects of anaesthesia. The students complete a Posting manual indicating all aspects of their posting during the posting.

Students must have passed the courses in Anatomy, Physiology, Biochemistry and Pharmacology in the pre-clinical years before admission into the course.

C. COURSE OBJECTIVES

The main objective of Anaesthesia and Intensive care course is for every student to acquire basic understanding and competencies in the following areas namely: Anaesthesia including preoperative evaluation and preparation of the surgical patient, airway management, cardiopulmonary resuscitation (CPR), oxygen therapy,

Acute pain management, care of the critically ill, and fluid management in the surgical patient.

D. COURSE LEARNING OUTCOMES

(a) Theoretical Knowledge Based Outcomes

At the end of this posting, students are expected to be knowledgeable in basic airway management, available options for acute and chronic pain management, cardiopulmonary resuscitation, preparation of the surgical patient for anaesthesia and surgery, and drawing up of simple anaesthetic protocols.

(b) Skills/Competence Based Outcomes

Students should have achieved competence in simple airway maintenance techniques, be able to administer effective basic life support, be able to secure intravenous access for resuscitation and surgery, be able to administer simple and safe intravenous anaesthesia with e.g. ketamine, midazolam, propofol, and opioids)

E. TEACHING/INSTRUCTIONAL MODES OF THE COURSE AND THE NUMBER OF HOURS PER WEEK

The posting consists of lectures, tutorials, seminars and intensive clinical exposures, pre/post-operative ward rounds and call duties. The student learns under close supervision appropriate methods of decision making in Anaesthesia including patient clerking, physical examination, ordering of investigations and interpretation. The first week is devoted to four hours per day of didactic lectures and demonstrations combined with theater sessions. Lectures are delivered with PowerPoint presentations while demonstrations are done with manikins and suitable educational video clips. Group discussions of clinical case scenarios are encouraged.

During the second week, students are involved with Anaesthesia sessions in Theatres and are taken through pre-

operative assessment during ward rounds, intra-operative and post-operative care of the surgical patient. Students also take calls during the posting. Attendance of at least 75% at all sessions is mandatory before the student can take the end of posting test. Students spend about 40 hours per week in lectures, tutorials, seminars and clinical exposure.

F. GRADING SYSTEM OF THE COURSE

End of posting Tests are done on completion of the Course in Year 5. The structure of End of posting examination is as follows:

- (i) Multiple choice questions with single correct answer – 50 questions (50 marks)
- (ii) Short answer questions – four (4) questions (10 marks each with total of 40 marks)
- (iii) Total Time allowed for the whole examination - 1hr 15 minutes (30 min for MCQs; 45mins for short answer questions)
- (iv) Attendance in programmes including posting booklet carries 10 marks. The posting booklet is scored before the student can take the examination

The scores obtained will be added to the in-course assessment for the final Surgery examinations in Year 6. The course will also be examined in the final paper for Surgery and Surgical specialties examinations in the Final year Surgery examinations.

G. THE COURSE OUTLINE

Week	Day	Topics/Practical	Remarks
Week 1	1	Introduction: History & scope of Anaesthetic practice Preoperative Assessment & Premedication	Introductory lecture to Anaesthesia
	2	Anaesthetic Machines & Accessories	Introductory lecture to

		Routes of induction of anaesthesia/Airway mgt Practical Demonstrations- Anaesthesia Machine & Airway Equipment	equipment and airway management
	3	Inhalational anaesthetic agent Intravenous anaesthetic agents Muscle relaxants and antagonists Practical Demonstrations - Airway Management	Pharmacology of anaesthetic drugs
	4	Local anaesthetic agent Neuraxial blocks Other local anaesthetic techniques Practical Demostration/Film show on Epidural/Spinal anaesthesia	Local anaesthetics/ techniques
	5	Anaesthesia in Special conditions with emphasis on Paediatric and Obstetric Anaesthesia Monitoring in anaesthesia & Intensive care Post anaesthesia care & complications Post-operative pain management Introduction to Palliative care Practical Demostration/Film show on Local anaesthetic techniques	Introduction to subspecialties of Anaesthesia and Critical care
Week 2	1	Administration of fluids, electrolytes & blood in the	Fluid and blood transfusion

		peri-operative period. Massive blood transfusion Hypoxia and Oxygen Therapy	management/ Oxygen therapy
	2	Cardiac Arrest & Cardiopulmonary resuscitation Film show /Hands-on Demonstration on CPR.	CPR
	3	Theatre sessions	
	4	Revision and Theatre sessions	
	5	End of Posting Examination	

H. SUGGESTED TEXTBOOKS

- (i) Lectures in Anaesthesia and Intensive care for medical students and practitioners by C. E. Famewo
- (ii) Oduntan and Oduro's Handbook of Anaesthetics for Medical Students and General Medical Practitioners by E.O. Elegbe (ed)
- (iii) Anaesthesia for Medical Students by Pat Sullivan

List of Undergraduate Courses co-taught by the Department

1. CLI 400 - Integrated Lecture Series
2. CLI 601 - Surgery and Surgical Specialities
3. CLI 602 - Medicine and Medical Specialities
4. CLI 603 - Elective posting in Anaesthesia

I. EQUIPMENT/ FACILITIES AVAILABLE FOR TEACHING

A. THEATRE (13 Theatres) and 6-bedded ICU

1. Anaesthetic machines

- i. Drager Tiro anaesthetic machine
- ii. Carestation 620 Anaesthetic machine

- iii. Ohmeda Anaesthetic Machine
 - iv. Medec Neptune Anaesthetic machine-(Paediatric surgery theatre and Organ transplantation theatre)
 - v. Datex Ohmeda Aespire Anaesthetic machine
 - vi. Boyle's Anaesthetic machine - (ICU)
2. Patient monitors:
- i. GE Healthcare Dash 400 Patient Monitor
 - ii. GE B40 multi-parameter patient monitor
 - iii. Schilller Truscope Classic multi-parameter patient monitor
 - iv. MT4 multi-parameter monitor
 - v. DS 5000 multi-parameter monitor
 - vi. Hand held Pulse oximeters
3. Mechanical Ventilators:
- a. Drager Servina Ventilator
 - b. Care Scape R 860 Ventilator
 - c. Gallelio Gold Ventilator
 - d. Drager Babylog ventilator
4. Standard 12 lead ECG machine with printer (ICU)

5. Peak flow meters
6. Blood Gas Analysers
7. Syringe drivers, Infusion pumps
8. Fluid Warmers -
9. Nebulizers – (Main theatre PACU and ICU)
10. Difficult Airways Devices (McCoy laryngoscopes, Video laryngoscope, Airtraqs, Combitubes, Ambuscope etc)
11. Cardiopulmonary resuscitation and airway training manikins with adjuncts

Postgraduate Courses handled by the Department

1. Postgraduate Diploma in Anaesthesia

This is a 12- month clinical course. The Department in conjunction with the OAUTHC, is accredited by the West African College of Surgeons for training doctors in Anaesthesia.

2. Residency Training in Anaesthesia

The Department is fully accredited for training at all levels of the six year residency training in Anaesthesia for both the West African College of Surgeons and the National Postgraduate Medical College of Nigeria.

Library books

The recommended textbooks for Anaesthesia are available in the University Library and bookshop. The Department also has a small library with journals and books. Students are encouraged to make use of these reading materials.

Achievements of the Department

The department has been in the forefront of providing Anaesthesia for complex surgical cases since 2001. Complex surgical cases that have been handled in the department include:

1. The staff of the department are part of the wholly indigenous Open Heart Surgery Team in OAUTHC, Ile-Ife, providing Cardiac and Anaesthesia and Critical Care support. Closed heart surgeries are routinely managed by our staff.
2. Establishment of one-lung anaesthesia for major thoracic procedures including video assisted thoracoscopic surgeries.
3. The staff of the department were part of the first wholly indigenous staff of any Teaching hospital in Nigeria providing Anaesthesia for Renal transplantation in 2002. This has been widely acclaimed in the University and nation.
4. Provision of Anaesthesia for separation of Siamese twins
5. Provision of Anaesthesia for Cochlear Implant in Deaf patients.
6. Participation in Establishment and running of a leading Endoscopic surgery services in Nigeria which was specially commended by a serving Minister of Health
7. Provision of Anaesthesia for Total joint replacement surgeries.
8. Establishment and provision of labour analgesia services
9. An active Intensive Care Unit
10. Provision of anaesthesia for Endoscopic Retrograde Cholangio-Pancreaticography (ERCP)-OAUTHC is the only institution in Nigeria where ERCP is done.