

**KRISHNA INSTITUTE OF MEDICAL SCIENCES,
DEEMED TO BE UNIVERSITY KARAD
Department of Anaesthesiology
Fellowship in Advanced Clinical Anaesthesia**

Programme Name_ : Fellowship in Advanced Clinical Anaesthesia and perioperative medicine

Programme Code-1710

Course Code-1710-11

Duration of Course:One Year

The course of the study shall be for a period of one year consisting of two terms of six months each.

Annual Intake :

2 per academic year

Eligibility:

1. Post MD/DNB in anaesthesiaPost DA 2 year course 1 year if post DA experience is 1year
2. Applicants must be resident of India.
3. Preference will be given to the candidates who have passed from Krishna Institute of Medical Sciences Deemed University

6. Selection:

Open door admission policy. Candidates will be selected from the four member panel (approved by KIMS DU).

Fee :As per University policy

Preamble:

Many anaesthetists are always looking for new challenges, and advanced clinical Anaesthesia training can offer this with development of skills in neuroanesthesia cardiothoracic anaesthesia, anaesthesia for organ transplantation, enhanced skills in perioperative care, intensive care medicine and also research methodology

The anaesthesiologist who has undergone the required training for fellowship should be able to serve the community, should be competent to handle effectively the problems in the area of anesthesia and should be aware of the recent advances pertaining to the speciality. He/She is also expected to know the principles of research methodology .

Objective:

To provide an intense, structured training programme for post MD/DNB (Anaesthesia) candidates, so as to enhance quality of anesthetic management in specialized areas

Course Outcomes:

Fellowship: Advanced Clinical Anaesthesia

By the end of the fellowship the fellow will be able to:

- Appreciate the roles of other members of the care team.
- Communicate clearly in a collegial manner that facilitates the achievement of care goals.
- Promote the sharing of important perioperative information with the medical team to enhance the care of, and identify high-risk patients at various stages of the perioperative course.
- Hand over the care of a patient to other health care professionals to ensure the continuity of safe patient care

LEADER

- The fellow must possess an awareness of the logistical constraints of delivery of health care and be able to propose useful and creative solutions to optimize care. The financial impact of perioperative anagement strategies must be understood.
- By the end of the fellowship the fellow will be able to:
- Contribute to the improvement of health care delivery within the team and organization
- Outline the structure of perioperative medical care, and how it fits in the administrative structure of the care setting
- Discuss the advantages and disadvantages of alternative models of care
- Explain the costs incurred by perioperative management strategies
- Discuss the potential savings in health care expenditure offered by perioperative medical interventions

HEALTH ADVOCATE

- The Fellow must respond to an individual patient's health needs by advocating with the patient within and beyond the clinical environment. They must also understand both the benefits and deficiencies of care at the system level such that they can contribute maximally to patient care.
- By the end of the fellowship the fellow will be able to:
- Identify the potential costs and benefits of new and existing strategies
- Delineate the obstacles to delivery of perioperative medical care
- Contribute to the development of solutions to the obstacles, and to the
- expansion of the perioperative options in the care setting
- Discuss the societal impact of the medical intervention and the perioperative period

SCHOLAR

- The Fellow must engage in the continuous learning regarding ongoing developments in the literature on perioperative care, and be able to appropriately incorporate them into practice. The conduct of perioperative medical research, and in particular outcomes based research, must be understood. They must also engage in teaching of students, residents, other health care professionals and the public.
- By the end of the fellowship the fellow will be able to:
- Read and critique publications about perioperative medicine.
- Integrate best available evidence into practice
- Contribute to the creation and dissemination of knowledge and practices applicable to perioperative care
- Contribute to the design of studies on perioperative outcomes and management.

PROFESSIONAL

- The Fellow must continuously conduct the practice of medicine with integrity, honesty, and accountability
- Demonstrate a commitment to patients by applying best practices and adhering to high ethical standards
- Demonstrate a commitment to ethical principles in providing care, obtaining informed consent, and maintaining patient confidentiality
- Demonstrate a commitment to society by recognizing and responding to societal expectations in health care
- Demonstrate a commitment to the profession by adhering to standards and participating in physician-based regulation

Course Syllabus:

- Embryology Anatomy & Physiology relevant to Anaesthesiology
- Pharmacology. Pharmacokinetics and pharmacodynamics
- Pathophysiology. Perioperative anesthetic management of the patient
- Infections, AIDS, anti-biotics&Nutrition
- Renal failure, ARDS, MOF, immunology
- transplantation, ethical & legal aspects Echocardiography, TEE studies, MRI etc.

- BCLS, ACLS critical care (medical NeuroPaediatric& Respiratory).
- Research Methodology and Bio-statistics, Medical ethics.

- The role of an anesthesiologist is being redefined and with that comes the need for new skill sets and training in perioperative medicine. Fellows will participate in rotations at high-risk surgical pre-operative clinics and intensive care units, learn point of care ultrasound techniques, deliver specialized care in the Post-Anesthesia Care Unit (PACU), and collaborate on research projects
- oationfellows will work in emergency and elective general surgery, orthopaedics, obstetrics, paediatric surgery, kidney and liver transplant, cardiothoracic surgery, neurosurgery, vascular surgery, ENT, ophthalmology, as well as dental and maxillofacial surgery, acute pain management, chronic pain management, and intensive care medicine.
 - **Clinical Training** – fellows will work one to two days per week in the operating room as faculty fellows. Clinical practice will include supervising residents, and will predominately involve anesthesia for high-risk noncardiac surgery.

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Clinical Educational Objectives

This is a one year full time clinical fellowship programme in anaesthesiology with rotations through the wide variety of subspecialty surgeries that the department is involved in – including emergency and elective general surgery, orthopaedics, obstetrics, paediatric surgery, kidney and liver transplant, cardiothoracic surgery, neurosurgery, vascular surgery, ENT, ophthalmology, as well as dental and maxillofacial surgery. This fellowship programme also allows opportunities to be trained in acute pain management, chronic pain management, and intensive care medicine.

Clinical fellows will be trained under the direct supervision of a faculty staff. This fellowship programme is suitable for trained anaesthesiologists who would like to gain more experience in the wide range of anaesthesia subspecialties mentioned above. A monthly allowance will be paid to the clinical fellow.

Perioperative Medicine Fellows should develop an appreciation of all aspects of perioperative medical management. This includes an understanding of the physiologic processes, as well as the physical and psychological impact. This also implies an awareness of and ability to effectively utilize a broad range of therapies aimed at modifying those impacts.

Specific Expectations:

By the end of the fellowship, the fellow will be able to:

Describe the physiologic changes occurring in the perioperative period.

Describe the preoperative risk assessment of patients with regard to both preoperative patient risk factors and various surgical procedures.

Perform preoperative patient assessments and develop management strategies with a view to risk stratification and management and collaborative decision-making.

Understand the components of a comprehensive preoperative risk evaluation and optimization process, and learn how to implement optimization processes into clinical practice. Preoperative optimization includes:

Prehabilitation

Optimization of modifiable risk factors

Optimization of pre-existing medical conditions (diabetes, anemia)

Manage high-risk surgical patients in the preoperative, intraoperative and immediate postoperative period.

Provide in-hospital anesthesia consultation for high-risk patients.

Describe the options available for postoperative analgesia, their advantages and disadvantages, including multimodal analgesia and select appropriate therapies for individual patients.

Explain the concept of enhanced recovery and how it is implemented and sustained to improve outcomes.

Training includes:

1. Weekly Seminars/Journal club
2. Monthly Lectures by faculty
3. Seminars, Interdepartmental seminar
4. discussions, case presentation
5. One publication or two representations at State/National level.
6. Internal assessment every six months
7. Final certifying examinations (Theory, clinical & Practical)(examiners-National Faculty)

Project: Meta analysis of any research question in the anaesthesia topic of choice

At the end of first term there will be internal assessment examination

Final Examination is divided into three categories

I Theory Examination:

Question Paper

Paper I Basic Sciences

Total marks 100

Paper II Practice of Cardiac anaesthesia and recent advances

II Practical Examination:

Candidate should present one long case

Total marks 100

one short case

III Viva Voce –

Total marks 100

Panel of two examiners : one internal and one external

Documents required at Interview:

(Original and 1 set of Photostat copies)

1. Photos – 5
2. Date of birth certificate
3. UG/PG Degree Certificates
4. Medical Registration Certificate
5. Proof of address (Voter ID, Passport, Driving license or Ration Card)
6. Experience Certificate if any.
7. Sponsorship letter (for sponsored candidates from Institution)
8. Application of in-service candidates should be routed through Proper channel only.

Calendar of events:

Application Issue Date :

Last date for receipt of filled :

Application

Interview date for eligible candidates :

Course Commence from :

Course Duration :

12 months 2 semesters of 6 months each.

Office Working days & time:
Monday to Saturday 9.30 AM to 4.30 PM
