

(96-MED-06-03) M.CH. - CARDIOTHORACIC SURGERY

Significance of Program

Cardiothoracic surgeons carry out open-heart surgeries and other surgical procedures that involve incision such as coronary artery bypass surgery, heart valve repairs, atrial fibrillation ablation, heart transplants, etc.

Career Options

In Cardio-Thoracic and Vascular surgery will increase your earning potential and give you a wide variety of career options. You can choose to work in a hospital or clinic, research institutes, or in other fields of medicine. You may also choose to work as a Medical Scientist and faculty in medical colleges.

Program Objectives

A cardiothoracic surgeon is a doctor who performs surgery on the heart, lungs, and other thoracic structures. They may focus on a particular area of the chest, ie cardiac surgery, thoracic surgery, or congenital cardiac surgery, which is concerned with babies and children born with heart diseases and defects

Outcomes of the Program:

Recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy They have mastered most of the competencies, pertaining to the specialty, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system. . To be aware of the contemporary advances and developments in the discipline concerned. They have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology Knowledge and skills that the trainee must acquire during the training period related to research works. They have acquired the basic skills in teaching of the medical and paramedical professionals.

Major Course Outlines

1. Critical Care and Post-operative Management The management of critically ill cardiovascular & thoracic surgical patients in the pre and post-operative periods
2. Cardiopulmonary Bypass, Myocardial Protection and Circulatory Support The management of a patient undergoing cardiopulmonary bypass. The management of 03

myocardial protection during cardiac surgery. The management of a patient requiring circulatory support.

3. Ischaemic Heart Disease The assessment and management of patients with coronary heart disease, including elective and emergency presentations. To include competence in both primary and secondary procedures, and where appropriate to include off pump and on pump strategies and arterial revascularisation The preliminary assessment and initial management of patients with complications of myocardial infarction, including mitral regurgitation, aneurysm and septal defects. To operative management of complex cases to be developed

| CORE | Electives | Skill Course |
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| <ul style="list-style-type: none"> • Cardio thoracic surgery | surgery | Excellent communication skills to manage a wide range of relationships with colleagues, and patients and their families. emotional resilience, a calm temperament and the ability to work well under pressure. Team work and the capacity to lead multidisciplinary teams. problem-solving and diagnostic skills |