

# CARDIO-RESPIRATORY SYSTEMS (CTS)

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## **CTS 6101 Lectures: Lung and Esophageal Surgery (1 unit)**

These seminars are organized to give detailed knowledge in the following specific areas: rigid and flexible bronchoscopy, bronchial brushing, esophagoscopy, esophageal motility and pH studies, respiratory function tests, lung tumours, pulmonary disease and post-operative complications of pulmonary surgery. In addition non-invasive studies of peripheral vascular disease, arterial disease and surgical intervention and trauma will be studied.

**Course Component:** Lecture

## **CTS 6102 Lectures: Atherosclerosis and Hematologic Series (1 unit)**

Detailed lectures are given to cover the aspects of congenital and acquired cardiac, vascular and thoracic diseases including atherosclerosis, thrombo embolytic disease, diagnostic procedures, coagulation, hemostasis and blood transfusion.

**Course Component:** Lecture

## **CTS 6103 Lectures: Circulatory Support Procedures (1 unit)**

The formal presentations include the areas of the pathophysiology of shock, cardiorespiratory failure, cardio-pulmonary bypass, ventilatory support devices, cardiac assist devices, pacemakers, post-operative monitoring and intensive care and intra-operative myocardial protection.

**Course Component:** Lecture

## **CTS 6104 Lectures: Basic Science Series (1 unit)**

The basic sciences of the cardio-respiratory system are reviewed including embryology, pathophysiology, anatomy and radiology of the heart, lungs and great vessels. The lectures will also cover the principles of metabolism, infection, genetics and statistics.

**Course Component:** Lecture