

# DBAP 850: ADVANCED PHYSIOLOGY & PATHOPHYSIOLOGY: CARDIAC AND RESPIRATORY ANESTHESIA

This course explains and discusses pathophysiologic considerations in the respiratory patient with a variety of diseases, including asthma, COPD, pulmonary hypertension, pulmonary embolism, obstructive sleep apnea and restrictive lung diseases. These concepts are incorporated into clinical application by discussion of specific pathologic states, assessment of pulmonary function and anesthetic risk and optimization during the conduct of anesthesia. The course covers pathophysiologic considerations in the cardiac patient with a variety of diseases including hypertension, pericardial disease, valvular disease, and different cardiomyopathies. Anesthesia techniques meeting the unique needs of each disease are discussed, and monitoring strategies are considered. The course includes a double-lumen tube simulation experience that covers one and two-lung pulmonary mechanics, control of ventilation, shunt and trouble-shooting techniques.

**Credits:** 2.00

**Learning Objectives:** D1, D3, D4, D5, D8, D9, D13, D14, D16, D17, D18, D19, D21, D22, D23, D25, D26, D29, D32, D35, D36, D37