

CARDIO RESPIRATORY PHYSIOLOGY

Cardiovascular Physiology

- Heart rate (HR) is the number of heartbeats per minute (b/min).
- Stroke volume (SV) is the volume of blood pumped by the heart in one stroke.
- Cardiac output (CO) is the volume of blood pumped by the heart per minute.
- CO = HR x SV
- SV is determined by:
 - Preload (volume of blood in the ventricle at the end of diastole)
 - Contractility (force of contraction)
 - Afterload (resistance to flow)
- HR is determined by:
 - Autonomic nervous system (ANS)
 - Baroreceptors
 - Chemoreceptors
 - Hormones (e.g. adrenaline)



RESPIRATORY PHYSIOLOGY

- Respiration is the process of exchanging gases between the atmosphere and the body.
- Inhalation is the process of drawing air into the lungs.
- Exhalation is the process of drawing air out of the lungs.
- Volume of air inhaled and exhaled is called tidal volume (TV).
- Volume of air in the lungs at the end of a normal expiration is called functional residual capacity (FRC).
- Volume of air in the lungs at the end of a maximal inspiration is called total lung capacity (TLC).
- Volume of air in the lungs at the end of a maximal expiration is called residual volume (RV).
- Volume of air in the lungs at the end of a normal inspiration is called inspiratory capacity (IC).
- Volume of air in the lungs at the end of a normal expiration is called expiratory reserve volume (ERV).
- Volume of air in the lungs at the end of a maximal inspiration is called inspiratory reserve volume (IRV).
- Volume of air in the lungs at the end of a maximal expiration is called expiratory reserve volume (ERV).
- Volume of air in the lungs at the end of a normal inspiration is called inspiratory capacity (IC).
- Volume of air in the lungs at the end of a normal expiration is called expiratory reserve volume (ERV).
- Volume of air in the lungs at the end of a maximal inspiration is called inspiratory reserve volume (IRV).
- Volume of air in the lungs at the end of a maximal expiration is called expiratory reserve volume (ERV).



Parameter	Normal Range
Heart rate (HR)	60-100 b/min
Stroke volume (SV)	70-100 ml
Cardiac output (CO)	5-6 l/min
Preload	100-120 mmHg
Contractility	100-120 mmHg
Afterload	100-120 mmHg
HR	60-100 b/min
SV	70-100 ml
CO	5-6 l/min
Preload	100-120 mmHg
Contractility	100-120 mmHg
Afterload	100-120 mmHg
HR	60-100 b/min
SV	70-100 ml
CO	5-6 l/min
Preload	100-120 mmHg
Contractility	100-120 mmHg
Afterload	100-120 mmHg

NEURO PHYSIO



- Neurophysiology is the study of the electrical and chemical processes that underlie the function of the nervous system.
- The nervous system is composed of the brain, spinal cord, and peripheral nerves.
- The brain is the central control center for the body.
- The spinal cord is the main communication pathway between the brain and the rest of the body.
- Peripheral nerves carry signals between the brain and the rest of the body.
- Neurons are the basic units of the nervous system.
- Neurons are specialized cells that transmit electrical signals.
- Neurons are composed of a cell body (soma) and a long process (axon).
- The axon is covered by a myelin sheath.
- Myelin is a fatty substance that insulates the axon.
- Myelin allows electrical signals to travel faster along the axon.
- Neurons are connected by synapses.
- Synapses are the points of contact between neurons.
- Synapses allow electrical signals to be passed from one neuron to another.
- Synapses are composed of a presynaptic terminal and a postsynaptic terminal.
- The presynaptic terminal contains vesicles of neurotransmitter.
- The postsynaptic terminal contains receptors for neurotransmitter.
- Neurotransmitter is released from the presynaptic terminal into the synaptic cleft.
- Neurotransmitter binds to receptors on the postsynaptic terminal.
- This causes the postsynaptic terminal to generate an electrical signal.
- The electrical signal travels along the axon to the next neuron.

ENDOCRINE SYSTEM



- The endocrine system is a system of glands that secrete hormones into the bloodstream.
- Hormones are chemical messengers that travel through the bloodstream to target organs.
- The endocrine system regulates many functions of the body, including metabolism, growth, and reproduction.
- The major glands of the endocrine system are the hypothalamus, pituitary, thyroid, parathyroid, adrenal, and pancreas.
- The hypothalamus is located in the brain and secretes hormones that control the pituitary gland.
- The pituitary gland is located at the base of the brain and secretes hormones that control the thyroid, parathyroid, and adrenal glands.
- The thyroid gland is located in the neck and secretes thyroid hormone, which regulates metabolism.
- The parathyroid glands are four small glands located on the thyroid gland. They secrete parathyroid hormone, which regulates calcium levels in the blood.
- The adrenal glands are two glands located on top of the kidneys. They secrete adrenaline and cortisol, which regulate stress responses.
- The pancreas is located in the abdominal cavity and secretes insulin and glucagon, which regulate blood sugar levels.

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CRITICAL CARE GUIDE

By Sonya Studies, BSc, MSc

@sonyastudies etsy shop

NEUROLOGICAL CASE



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- The brain is the central control center for the body.
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Critical Care Study Guide Critical Care Study Guide

**Steven E. Lucking, Frank A.
Maffei, Robert F. Tamburro, Neal J.
Thomas**

Critical Care Study Guide Critical Care Study Guide:

Pediatric Critical Care Study Guide Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J.

Thomas, 2012-04-12 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide. There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner. Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1. description of the procedural tasks commonly performed for the critically ill patient; 2. explanation of the most common pathophysiologic states encountered; and 3. description of specific disease entities with details of their differential diagnosis, diagnostic strategy, and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader. **Critical Care Study Guide** Gerard J. Criner, Gilbert E. D'Alonzo, 2002 This is the first comprehensive study guide covering all aspects of Critical Care Medicine. The condensed format of coverage is unique; it supplies a heavily illustrated text with self-assessment questions and answers. This approach will help the reader to determine the correct answer. The text is supported by case studies, tables, and illustrations which will describe important procedures. Also, the selected readings and references will focus on the field's leading major references, so this book will be the ideal complement to previously published literature. This is useful for physicians and those in training who see patients in the ICU. **Pediatric Critical Care Study Guide** Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study

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