

HUMAN PHYSIOLOGY MODULE 4

CUTANEOUS SENSES

- The somatic senses are the nervous mechanisms that collect sensory information from all over the body.
- The somatosensory system, the sensation of the body and its movements, is not one sense but many, including discriminative touch (which identifies the shape of an object), deep pressure, cold, warmth, pain, itch, tickle, and the position and movement of joints.
- The somatosensory system is comprised of sensory (efferent) receptors and sensory (afferent) neurons that are distributed in the periphery up to the central nervous system.

Classification of Somatic Senses

The somatic senses can be classified into 3 physiologic types:

1. The mechanoreceptive somatic senses, which include both tactile and position sensations that are stimulated by mechanical displacement of some tissues of the body.
2. The thermoreceptive senses, which detect heat and cold.
3. The pain sense, which is activated by Factors that damage the tissues.

Other Classifications of Somatic Sensations:

- Exteroceptive sensations are those from the surface of the body.
- Proprioceptive sensations are those relating to the physical state of the body, including position sensations, tendon and muscle sensations, pressure sensations from the bottom of the feet, and even the sensation of equilibrium (which is often considered a "special" sensation rather than a somatic sensation).
- Visceral sensations are those from the viscera of the body.
- Deep sensations are those that come from deep tissues, such as from fasciae, muscles, and bone. These include mainly "deep" pressure, pain, and vibration.

Types of Receptors

Meissner's Corpuscles:

- Elongated encapsulated nerve ending of a large myelinated sensory nerve fiber
- Present in the non - hairy parts of the skin and are particularly abundant in the fingertips, lips etc.
- Sensitive to movement of objects over the surface of the skin, as well as to low frequency vibration
- Meissner's corpuscles adapt in a fraction of a second after they are stimulated

Pepp Study Guide

Madeline Parisi, Al Marcella



Pepp Study Guide:

Pediatric Education for Prehospital Professionals (PEPP), Fourth Edition American Academy of Pediatrics (AAP), 2020-02-24 Pediatric Education for Prehospital Professionals PEPP Fourth Edition is an evidence based resource of essential medical content for the assessment and management of infants and children in the field This respected and ground breaking program paired physicians and EMS providers together to ensure the content reflects current best practices and the realities of the field Developed by the American Academy of Pediatrics PEPP is designed to give prehospital professionals the knowledge skills and confidence they need to effectively assess and manage pediatric patients PEPP combines world class content with engaging features and an interactive course to truly prepare prehospital professionals to care for pediatric patients The Fourth Edition Includes A new chapter on Behavioral Emergencies A top flight EMS author team working with AAP physician reviewers to ensure exceptional medical content with a focus on how it is applied in the streets New procedures on tourniquet application and intranasal medication administration Features Include The Pediatric Assessment Triangle PAT represents the essence of the PEPP patient assessment method which includes assessing appearance work of breathing and circulation to the skin The Patient Assessment Flowchart provides students with an easy to understand reference of the pediatric patient assessment process Case Studies provide an opportunity for students to apply the foundational knowledge presented in the chapter and strengthen their critical thinking skills Procedures provide step by step explanations and visual summaries of vital BLS and ALS pediatric care skills Flexible Course Options PEPP Course Coordinators may offer a 2 day onsite course or a 1 day enhanced hybrid course at the BLS or ALS level The onsite course features interactive case based lectures where students apply their knowledge in a safe environment The hybrid course features case based online modules with engaging interactivities including rapid skills demonstration videos that students complete before attending the onsite portion for hands on skill station coaching and small group discussions The BLS level courses are geared toward emergency responders and EMTs while the ALS level courses are geared toward AEMTs and Paramedics

Pediatric Education for Prehospital Professionals (PEPP) American Academy of Pediatrics

(AAP), 2013-08-28 PEPP is designed to give prehospital professionals the education skills and confidence they need to effectively treat pediatric patients Developed by the American Academy of Pediatrics PEPP specifically teaches prehospital professionals how to better assess and manage ill or injured children Important Notice The digital edition of this book is missing some of the images or content found in the physical edition *PEPP Spanish: Programa de Educacion Pediatrica Prehospitalaria* American Academy of Pediatrics (AAP), 2015-07-27 Programa de educaci n pedi trica prehospitalaria PEPP tercera edici n representa una fuente completa de informaci n m dica prehospitalaria para la atenci n de urgencias de los lactantes y los ni os [PEPP United Kingdom: Pediatric Education for Prehospital Professionals \(PEPP\)](#) American Academy of Pediatrics (AAP), 2018-09-28 Pediatric Education for Prehospital Professionals PEPP United Kingdom Revised Third Edition

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for college bound students and their parents Hip honest and straightforward this guide delivers an insiders look at the academic climate **A Reference Guide for English Studies** Michael J. Marcuse,1990-01-01 This text is an introduction to the full range of standard reference tools in all branches of English studies More than 10 000 titles are included The Reference Guide covers all the areas traditionally defined as English studies and all the field of inquiry more recently associated with English studies British and Irish American and world literatures written in English are included Other fields covered are folklore film literary theory general and comparative literature language and linguistics rhetoric and composition bibliography and textual criticism and women s studies **West's Annotated California Codes** California,1998

Consulting-specifying Engineer ,1988 **Pediatric Education for Prehospital Professionals** Ronald A. Dieckmann,2006 Pediatric Education for Prehospital Professionals PEPP represents a comprehensive source of prehospital medical information for the emergency care of infants and children **Resources in Education** ,1997 **Basic Life Support Provider: Pediatric Education for Prehospital Professionals** ,2009-10-05 Basic Life Support Provider Pediatric Education for Prehospital Professionals BLS PEPP is a comprehensive source of prehospital medical information for the emergency care of infants and children BLS PEPP is designed to give First Responders and EMT Basics the education skills and confidence they need to effectively treat pediatric patients Developed by the American Academy of Pediatrics BLS PEPP specifically teaches prehospital professionals how to better assess and manage ill or injured children BLS PEPP combines complete medical content with dynamic features and an interactive course to better prepare prehospital professionals for the field **Artificial Intelligence and Human Agency in Education: Volume One** Michael Agyemang Adarkwah,Samuel Amponsah,Ronghuai Huang,Michael Thomas,2025-10-01 This book investigates how artificial intelligence AI will impact the educational cognitive social and psychological processes of teaching and learning in diverse ways across different educational levels It focuses on a variety of key areas of enquiry such as Learner motivation engagement self esteem self efficacy self regulation critical and reflective thinking and learning outcomes The psychological impact of AI on teachers e g changes in job roles professional identity work motivation job satisfaction and work life balance The ethical considerations of using AI in education e g issues of privacy bias and safety Emotional intelligence in AI based teaching and learning The impact of human computer interaction on cognition memory and mental health Cognitive and self directed learning in adult lifelong and inclusive education Humanization of AI in education Technology fatigue and technostress in education This book serves as a reference for various stakeholders in the field of education and assists them in understanding the impact of AI on both teachers and learners Readers who wish to learn more about this topic can refer to Artificial Intelligence and Human Agency in Education Volume Two *Sanders' Paramedic Textbook* Mick J. Sanders,Kim McKenna,American Academy of Orthopaedic Surgeons (AAOS),2024-01-17 Featuring current print and digital content engaging illustrations and photos and accessible technology Sanders Paramedic Textbook Sixth Edition Premier Package with Flipped Classroom provides

comprehensive resources and spurs critical thinking for paramedic students The new edition has been reviewed and endorsed by the American Academy of Orthopaedic Surgeons AAOS and the National Association of EMS Physicians NAEMSP and its content meets or exceeds the scientific recommendations by the International Liaison Committee on Resuscitation ILCOR and is consistent with the ECC Guidelines as established by the American Heart Association and other resuscitation councils around the world Sanders robust resources for educators and students deliver teaching and learning solutions to best fit educators unique classroom needs Its single volume provides portability to learners while limiting repetition of content and its inclusion of detailed anatomy and physiology negate the need for additional reference texts Even more its emergency drug index incorporates detailed drug information in an easy to find location Developed by a renowned team of authors Sanders Paramedic Textbook Sixth Edition Premier Package with Flipped Classroom provides a comprehensive training program and curriculum to prepare students for long term success in the field and focuses on inclusion and diversity to engage every student Interested to hear what paramedic instructors and program coordinators think about the Sixth Edition Check out the reviews below from three of our early textbook reviewers Bill Comella Chris McLaughlin and Michael Simon Review Bill Comella Paramedic Program Coordinator First Responder Resiliency and Support Simulations Interactive Lectures Virtual Ride Alongs Lesson Guides 2025 2200 pages [Water Desalting Planning Guide for Water Utilities](#) AWWA (American Water Works Association),2004-03-25 Written by a select group of industry experts under the supervision of the leading organization in water utilities AWWA this reference is the first practical guide to water desalination systems Desalination is the process used to remove dissolved salts from seawater or highly mineralized waters so that the water becomes usable for human and or agricultural and industrial usage This book offers authoritative guidance on the planning design and implementation of a successful water desalination system for public water utilities

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