

## 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

**Edward B. Fiske**



## 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 represents a comprehensive source of prehospital medical information for the emergency care of infants and children 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 PEPP combines comprehensive medical content with dynamic features and an interactive course to fully prepare prehospital professionals to care for children in the field New to the Revised Third Edition Meets 2015 CPR and ECC GuidelinesThe textbook content addresses every pediatric specific competency statement in the National EMS Education StandardsShock and resuscitation content is covered in two separate chapters placing more emphasis on these critical topicsA top flight EMS author team working in conjunction with AAP physician reviewers ensures exceptional medical content with a street focusA free eBook is included with every printed copy of the Revised Third EditionFeatures 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 skinThe Patient Assessment Flowchart provides students with an easy to understand reference of the pediatric patient assessment processCase Studies provide an opportunity for critical thinking and encourage students to consider how they would treat a similar case in the fieldProcedures provide written step by step explanations and visual summaries of important BLS and ALS pediatric skillsInteractive Course and Flexible Course Options PEPP Course Coordinators now have the option of offering onsite or hybrid coursesThe hybrid course includes engaging interactive online modules that students complete before attending the onsite portion of the course for scenarios and hands on skill stationsThe onsite course includes case based lectures live action video small group scenarios and hands on skill stationsA new renewal course for providers to keep up to date with their skillsThe BLS course is geared toward Emergency Medical Responders and EMTs while the ALS course is ideal for AEMTs and Paramedics Learn more about the PEPP course at [www.PEPPsite.com](http://www.PEPPsite.com) Note Access to the online modules can be purchased separately Select the Student Resources tab above to purchase or click the links below BLS Pretest AccessALS Pretest AccessBLS Hybrid AccessALS Hybrid Access PEPP Precourse Module access codes are not available in the eBook version

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