

Introduction

Providing medical care for children requires not only knowledge of techniques to communicate with and gain cooperation from the patient but also knowledge of history and exam skills that are specific to children. Acquiring these skills in the field is often difficult due lack of parental/patient cooperation or understanding, concern for patient discomfort, and need for the provider to be able to complete an accurate patient assessment.

Video-based learning is utilized for numerous types of educational activities. It is particularly valuable in teaching challenging material that may be difficult to simulate or replicate such as pediatric histories and exams.

In addition, studies have shown we rely heavily on our senses to process information, and the use of multiple senses allows for improved clarity and understanding of a concept. The use of audiovisual material for educational purposes has demonstrated positive outcomes in terms of student attitudes, confidence, and knowledge acquisition.

Physical Exam:

Objectives

- Understand the unique challenges of the pediatric physical exam
- Recognize the differences in the pediatric and adult physical exams
- Establish strategies for successfully engaging the patient

Suggested Videos:

- Tricks of the Trade
 - <http://www.comsep.org/educationalresources/multimediateachingtools.cfm>
 - COMSEP Multimedia Teaching Resources > Pediatric Physical Exam
 - Discusses challenges of the pediatric physical exam and provides techniques to complete a successful exam
- Newborn Exam
 - <https://www.youtube.com/watch?v=787D5wz1Fpk>
 - Thorough newborn exam; includes examples of both normal and abnormal findings
- Infant Exam
 - https://www.youtube.com/watch?v=8gnO4Py0_08
 - Overview of infant exam
- Toddler/Preschool
 - <https://www.youtube.com/watch?v=jAov1DUPckM>
 - Overview of toddler/preschool exam
- School-Aged
 - <https://www.youtube.com/watch?v=tLIMkBjHMKI>
 - Overview of school-aged exam

Activity: After reviewing examples of pediatric physical exam, students will work in groups of 2-3 to discuss the particular challenges inherent to the pediatric exam, differences in the pediatric and adult physical exams, and strategies for engaging children in the exam.

Developmental Milestones

Objectives:

- Understand the importance of development in the health of a child
- Learn the four major areas of development
- Distinguish normal progression of development from abnormal
- Recognize key features of Autism

Suggested Videos:

- All Milestones
 - <http://www.med-u.org/the-library/developmental-milestones>
 - MedU > The Library > Tools > Learn the Child Developmental Milestones (Birth to 5 years) > View Tool > Click Here to Use the Interactive Table of Video Clips
 - Table of video clips demonstrating milestone for all ages birth – 5 years
- Language Development in Children
 - https://childdevelopmentinfo.com/child-development/language_development/#.WMAKNH9SLm4
 - Child Development Institute
 - Contains written information on language development in children. Scroll down the page to “Language Development Information from Experts in the Field”, which includes 3 videos discussing stages of speech and language development.
 - <https://www.youtube.com/watch?v=a7WAfwKi88Q>
 - Nancy Tarshis, M.A., M.S., C.C.C.-SLP, Speech-Language Pathologist, Albert Einstein College of Medicine
 - <https://www.youtube.com/watch?v=pZSjm0drIGM>
 - Lisa Shulman, M.D., Developmental Pediatrician, Albert Einstein College of Medicine
- Motor Development
 - <https://www.youtube.com/watch?v=G5wWVNYLBVk>
 - Lisa Shulman, M.D., Developmental Pediatrician, Albert Einstein College of Medicine
- Autism
 - <https://www.youtube.com/watch?v=YtvP5A5OHpU>
 - Early Signs of Autism
 - Rebecca Landa, PhD, CCC-SLP, Centers for Autism and Related Disorders at Kennedy Krieger Institute
 - <https://www.youtube.com/watch?v=3w1c4sF4ZTg>
 - Diagnostic Criteria for Autism
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Activity: After reviewing the developmental milestones, students will have the opportunity to interact with a variety of children and determine their ages based on their mastered milestones.

