**Head Injuries**

**GOALS:**

1. Understand the difference between closed head injury in toddlers and older children.
2. Be able to diagnose concussion.
3. Become familiar with when to image a child with a closed head injury.
4. Learn about second-impact and post-concussive syndrome.
5. Teach the importance of safety in sports and other physical activities.

**OBJECTIVES:**

1. State the epidemiology of closed head injury in children.
2. Differentiate between characteristics of closed head injury in toddlers and older children.
3. Elaborate on standardized methods of diagnosing concussions, such as the ACE (Acute Concussion Evaluation) and SAC (Standardized Assessment of Concussion).
4. Explain the indications for imaging a child with closed head injury, including common clinical decision rules found in the literature.
5. Define post-concussion syndrome.
6. Define second-impact syndrome.
7. Describe the care plan for a child with closed head injury:
   1. Acute management
   2. Long-term management
8. State how you would counsel parents on head injuries in their children:
   1. Signs and symptoms
   2. When to go to the PCP office vs ER
   3. Long-term monitoring after the initial injury
   4. Return to play

**INSTRUCTIONAL STRATEGY:**

1. Lecture
2. Case presentation

**RESOURCES:**

1. <http://www.childrensnational.org/files/PDF/DepartmentsandPrograms/Neuroscience/Neuropsychology/SCORE/FactsforPhysicians.pdf>
2. <http://www.cdc.gov/concussion/index.html>
3. <http://www.childrensnational.org/files/PDF/DepartmentsandPrograms/Neuroscience/Neuropsychology/SCORE/ACEPRO~1.PDF>
4. <http://www.childrensnational.org/files/PDF/DepartmentsandPrograms/Neuroscience/Neuropsychology/SCORE/ACEPRO~3.PDF>
5. <http://kidshealth.org/parent/general/aches/concussions.html>
6. <http://www.cdc.gov/concussion/pdf/TBI_factsheets_PARENTS-508-a.pdf>

**EVALUATION STRATEGY:**

1. Post-test
2. Case management discussions

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9. Meehan WP 3rd, d'Hemecourt P, Collins CL, Taylor AM, Comstock RD. Computerized neurocognitive testing for the management of sport-related concussions. *Pediatrics* 2012 Jan; 129(1): 38-44.