Pediatric Trauma Life Support for Prehospital Care Providers

Special Considerations in Pediatric Trauma

3rd Edition

Special Considerations

Objectives

- Identify the unique aspects of children with special health care needs
- Discuss resuscitation guidelines and interventions for newly born infants
- Discuss the role and responsibility of prehospital providers who encounter suspected child abuse
- Describe "red flags" that suggest non-accidental injury
- Discuss recommendations for notifying and assisting the family of a child who dies

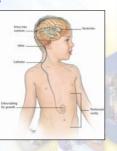
Special Considerations

Case Study Scenario

- Scene of a school where a 5-year-old child who has fallen and struck his head
- Child has a history of ventriculoperitoneal (VP) shunt placement as an infant
- Child has become progressively sleepy and has vomited several times



- · You arrive at the scene
 - How should you approach this patient?
 - What specific concerns does this child raise?
 - What is a VP shunt and how does it affect the way you care for the patient?
 - What is your best and quickest resource?





Special Considerations

CSHCN Patient Considerations

- Families can provide valuable information
- What do you ask?
 - SAMPLE history
 - Birth history

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Special devices





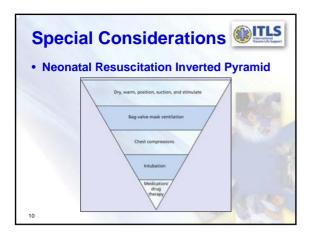
- CSHCN Patient Considerations
 - Assessment should always include functional status of specialized equipment
 - Evaluate for:
 - DOPE and infection
 - D Displacement
 - O Obstruction
 - P Pneumothorax, pulmonary problems, peritonitis, perforation, etc.
 - E Equipment failure

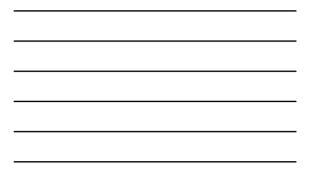


Special Considerations

Trauma in the Newborn

- Trauma is the primary cause of morbidity, mortality among pregnant women
- Always assume the fetus is alive in the prehospital setting
- Refer to the neonatal resuscitation inverted pyramid to determine interventions necessary for newly born infants
 - Most need only drying, warming, and suction before placing on mother's chest



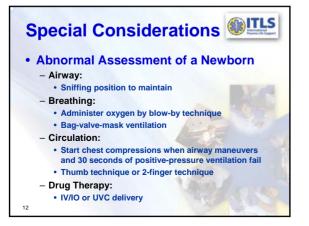


Initial Stabilization and Assessment

- Is the gestation at term (greater than 37 weeks)?

- Is the amniotic fluid clear?
- Is the baby actively crying or breathing?
- Does the baby have good muscle tone?





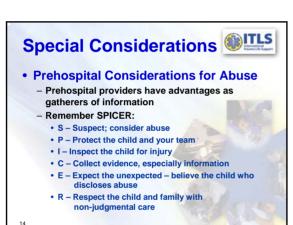
Child Abuse

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- Child abuse can happen in any family and in any setting
- 3 million reports of suspected child abuse and neglect are made to Child Protective Services in U.S. annually



 1,500 child deaths were reported in U.S. in 2004 from maltreatment; actual number is thought to be greater



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- Injury inconsistent with history
- Changing history
- Witness who reports abuse or suspicions of domestic violence
- Inappropriate affect of the historian
- Child who demonstrates excessive fear or withdrawal from particular person(s)
- Child who discloses abuse



Special Considerations

- Physical findings of possible abuse:
 - Unexplained injuries, abdominal or head trauma
 - Marks or burns with appearance of man-made
 - objects on unlikely body surfaces
 - Cigarette burns
 - Pinch marks
 - Adult-sized bite marks



- ("glove" or "sock" pattern)
- Rope burns

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- Unexplained mouth or dental injuries, fractures
- Bulging fontanel in infants

Special Considerations · Death of a Child - One of the most challenging situations for prehospital providers: Intensive medical interventions Overwhelming demands from parents and families · Provider's own emotional reaction

· Balance needs of surviving family, authorities at scene of death



- · Death of a Child
 - Prehospital providers typically encounter 3 stages of grief with child's family
 - 1st Stage: Shock
 - Denial, numbness, internal conflict, guilt
 - 2nd Stage: Affective or emotional reaction

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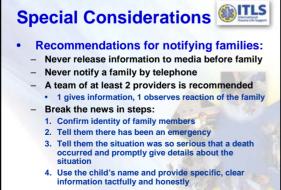
- · Anger, sadness, fear, anxiety
- 3rd Stage: Alpha mourning



Special Considerations

- Families' grief reactions:
 - Tearfulness or hysterical crying
 - Flatness of affect
 - Varying and extreme displays of emotion
 - Anger or hostility directed at medical care providers
 - Feelings of guilt, hopelessness and loss of control
 - Be alert for symptoms that require emergency medical evaluation!







- · Care for the prehospital provider
 - Often overlooked
 - Injured children very stressful

CISM

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- Critical incident stress management and debriefing
- Consider other responding agencies involved in child's care



Special Considerations

- Case Study Continued
 - ITLS Primary Survey findings:
 - Child is very sleepy but arousable
 - · Airway is open
 - Breathing is regular
 - Heart rate is 52 bpm
 - Blood pressure 120/80
 - Child is a priority patient due to altered level of consciousness and underlying medical condition



- · Points to Remember
 - Perform the Initial Assessment and Rapid Trauma Survey on CSHCN exactly as you would on any other injured child
 - The majority of newly born infants require no intervention at birth beyond drying, warming, suctioning the mouth and nose, and placing the baby on the mother's chest

Special Considerations

- · Points to Remember
 - Parents, family members, and close friends may display many different behaviors during the initial stages of grief:
 - Hysterical crying
 - · Flatness of affect
 - Anger or hostility toward medical personnel
 - · Feelings of guilt, hopeless, or loss of control
 - Prehospital providers must be aware of indicators of abuse, recognize high-risk situations, obtain pertinent information, and convey information to the appropriate authorities. Document everything!

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