

Objectives

- Identify factors that are important when dealing with children and their families
- Identify the stages of development in children
- Discuss the importance of understanding mechanisms of injury for traumatic events
- Discuss injury prevention measures



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Case Study Scenario

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- Team called to a motor vehicle collision reportedly involving more than 1 child
- Scene Size-up reveals a minivan with significant damage to the front driver's side of the vehicle with entrapment of passengers
- Two small children secured in child safety seats next to each other in the middle seat
- Both children are crying; one tells team to "Go away!"; other screaming, "I want my mommy."
- Firefighters are extricating an adult female from the driver's seat

• You arrive on the scene

- How would you approach these patients?
- How do you estimate their age?
- What do you need to understand about the mechanism of injury related to the pediatric patient?



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· Communication is key to care

- Be familiar with the developmental milestones of infants and children
- Understand the basic fears of infants and children

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Communicating with parents and families

- Treat not only the child but the family
- Families/parents are an integral part of the child's life
 - They know their child best! Input can be invaluable

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 Primary caregiver may not always be the parents





- Development Infant
 - Birth to 12 months
 - Rapid growth and development
 - Eye contact, cooing, response to visual stimuli, strong suck
 - Sitting, crawling, walking
 - Non-verbal



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- Separation from parents causes stress, so keep child in contact with parents whenever possible
- Infants are sensitive to the physical environment
 - · Make sure your hands are warm
 - Keep the scene and the child warm when possible



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· Mechanisms of Injury - Infants

- Dependent on others for all needs rare for this age group to cause harm to themselves
- Child abuse is a leading cause of injury
- Motor vehicle crashes
- As this age group becomes mobile, other common mechanisms of injury are:
 - Falls
 - Drowning
 - Burns

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- Prevention Infants
 - Focused on parents
 - Parenting classes can help to avoid the tendency toward abuse
 - Stress proper use of restraint devices in automobiles
 - Review developmental milestones of infants
 - Teach parents the dangers to their children with respect to falls, drowning and burns



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Development - Toddlers

- 12-30 months old
- Walking running
- Curious and investigative
- Speak in words and phrases, may ask for things
- Follow simple directions
- Fear parental separation



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Communications Strategies – Toddlers

Allow parents to be present whenever possible to keep toddlers calm

- Familiar items (blanket, toy) also provide comfort
- Always be honest when performing interventions
- Maintain verbal communication and warn them if it will hurt
- Be aware of toddlers' fear of restriction of movement
 - Spinal motion restriction particularly challenging

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 Communications Strategies – Toddlers

- Don't ask yes/no questions

- Children likely to answer "no" to all of your statements
- Recognize toddlers' fear of strangers
 - Children are likely to be afraid of people they haven't met before.
 - Older toddlers taught not to talk to strangers

Chee Anjured Child Mechanisms of Injury – Toddlers- Falls are the leading cause of injury - Other major MOIs: - MVCS - Drowning - Burns

• Prevention – Toddlers

- Concentrate on parents and caregivers

- Stress the proper use of restraint systems in motor vehicles
- Highlight the need for constant supervision
- Begin teaching prevention activities to children:
 - Importance of seat belts
 - Bicycle safety
 - · Wearing a helmet
 - Fire safety

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- Development Preschool Age
 - 30 months 5 years old
 - Very mobile
 - Fear body mutilation
 - May have a favorite toy or blanket
 - Excellent expressive skill for thoughts, feelings, wants and needs
 - Rich fantasy life

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Communications Strategies -Preschool Age

- Explain procedures and prepare children in advance of performing interventions
 Encourage their participation in care
 - · Encourage men participation in care
- Parental involvement still important
- Encourage fantasy and play
- Show acceptance of their feelings
 - Allow expression





• Prevention - Preschool Age

- Educate parents and children
- Use activities to get children involved:
 - · Bicycle safety/helmet use
 - Roadway, parking lot safety
 - Still need child restraints in the car
- Teach fire, water, and firearm safety



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- Development School Age
 - 6-12 years old
 - Storytellers
 - Able to reason and think concretely
 - Understand body structures and functions
 - Fear of loss of bodily control
 - Incomplete understanding of death leads to fear



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• Development - Adolescents

- 12-18 years old

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- Establishing independence; conflicted about whether they want to be treated like children or adults
- Lack of trust and enforced dependence are stressors
- Allow adolescents to make decision about parental involvement when possible



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- Communications Strategies Adolescents
 - Involve them in their own care and let them make decisions when possible
 - Respect their autonomy
 - Recognize the importance of their peer group
 - Stress acceptance by peers



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• Mechanism of Injury- Adolescents

- Risky behaviors
- Injured in MVCs as inexperienced drivers, not as passengers
- Use of drugs and alcohol
- Extreme sports
- MVCs and firearms the leading causes of injury for this age group
- Drowning and falls less common but still prevalent





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- Prevention Adolescents
 - Motor vehicle safety
 - Abstinence from drugs and alcohol
 - Parents and communities need to be active in prevention activities in addition to schools



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- Team Roles and Responsibilities
 - Team Leader
 - Assesses the scene
 - Establishes rapport with child and family
 - Performs Initial Assessment
 - Makes decisions on patient care
 - Documents care

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 Reports mechanism of injury, assessment, and interventions to receiving hospital



Parental Involvement

- Involve the parents or family in the care of the child
- A team member should explain terms and procedures
- Allow parents to accompany child to the hospital in the ambulance when possible

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- A Confident Approach
 - Rescuers must be confident and organized in their approach to the care of pediatric patients
 - Standardized ITLS patient assessment process has demonstrated a significant increase in patient's chances for successful outcome
 - Should not regard questions from parents as questioning the responder's abilities



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Equipment

- Use equipment designed for pediatric patients when possible
- Be familiar with the proper use of child-size equipment









Case Study Continued

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- Based on size, language, and interactions, the children are estimated to be 2 and 4 years old
- Upon inspection, no damage to interior of vehicle where children are located
- Car seats are properly installed, and children are properly restrained in the car seats
- Initial Assessment reveals no injuries
- Only one ambulance at the scene

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Case Study Decisions and Wrap-Up

- Team transports children in their car seats in the ambulance with their mother, who is unconscious
- Children settle noticeably when team speaks to them in calm, reassuring voices and when they can see their mother



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