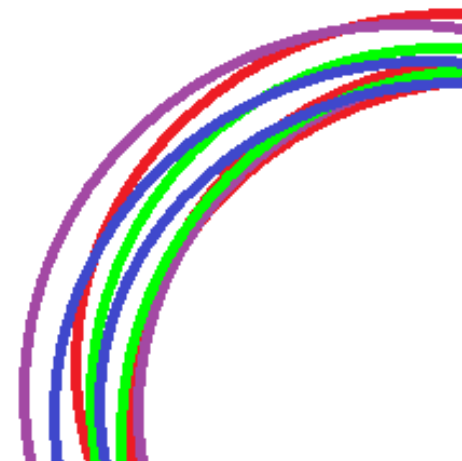


Principles and Challenges of Road Safety for Children with Special Needs

Child Road Safety in the Americas:
A UN Global Road Safety Week Regional Conference
Costa Rica
May 8, 2015

Marilyn J. Bull, MD, FAAP

American Academy of Pediatrics | NCD Child
Riley Hospital for Children at Indiana University Health
Indiana University School of Medicine
Automotive Safety Program
Indianapolis, IN





Pediatric Engagement

American Academy
of Pediatrics



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international pediatric association

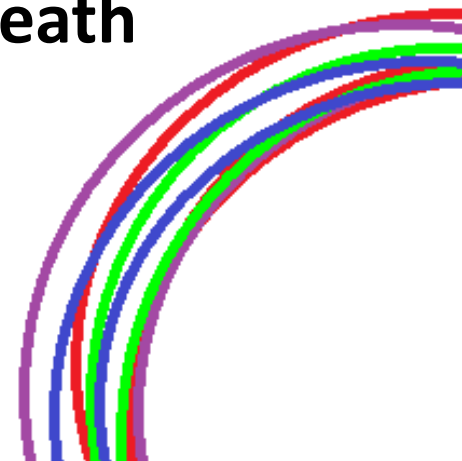
NCD Child Mission

NCD Child works together with other partners to ensure that issues related to prevention and treatment of NCDs for children, adolescents, and youth are equitably addressed and prioritized in global and national health policy and development agendas.



Our Key Tenets

- Is committed to the **prevention and control** of NCDs throughout the **life-course** – from pre-conception to death
- Aims to ensure that issues related to NCDs, children, adolescents and youth are **equitably addressed and prioritized** in global and national health, policy and development agendas
- Promotes policies and initiatives that **minimize preventable death and disability**



Upcoming Regional Advocacy Training

November 11, 2015 | 8:00am – 4:00pm

Lima, Peru | ALAPE

For additional details, please contact ncdchild@aap.org

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ncdchild@aap.org.



Infants Born Prematurely

- Blanket rolls on both sides of baby and crotch roll may be necessary for stable positioning in some seats



Infants Born Prematurely

- Position infant properly
- Do not use non-regulated products



Infant born prematurely positioned in car safety seat with newborn insert

Cardiorespiratory Instability

- Position in car seat with recline that does not compromise respiratory status
- Infants may require car bed



Infant in Angel Ride Car Bed

Principles and Challenges

Never modify seat unless approved
by manufacturer



Principles and Challenges

Use conventional seats whenever possible



Principles and Challenges

When necessary use seats developed and crash tested for special needs





Children in Hippo car seat, designed for children in casts

Behavioral Challenges





Travel Vest

Behavioral Challenges



- Although child may fit guidelines of booster, child may need more restrictive restraint

Behavioral Challenges



- Hyper-extensible joints and challenging behaviors are common
- Higher-weight harness restraints, large medical seats with anti-escapism accessories or upright vests may deter escapism

Principles and Challenges

Size and development of child, not age, determine seat



Achondroplasia



Three year old, under 30 pounds, with achondroplasia, positioned rear-facing in a convertible seat.

Achondroplasia



Nine year old with
achondroplasia

Principles and Challenges

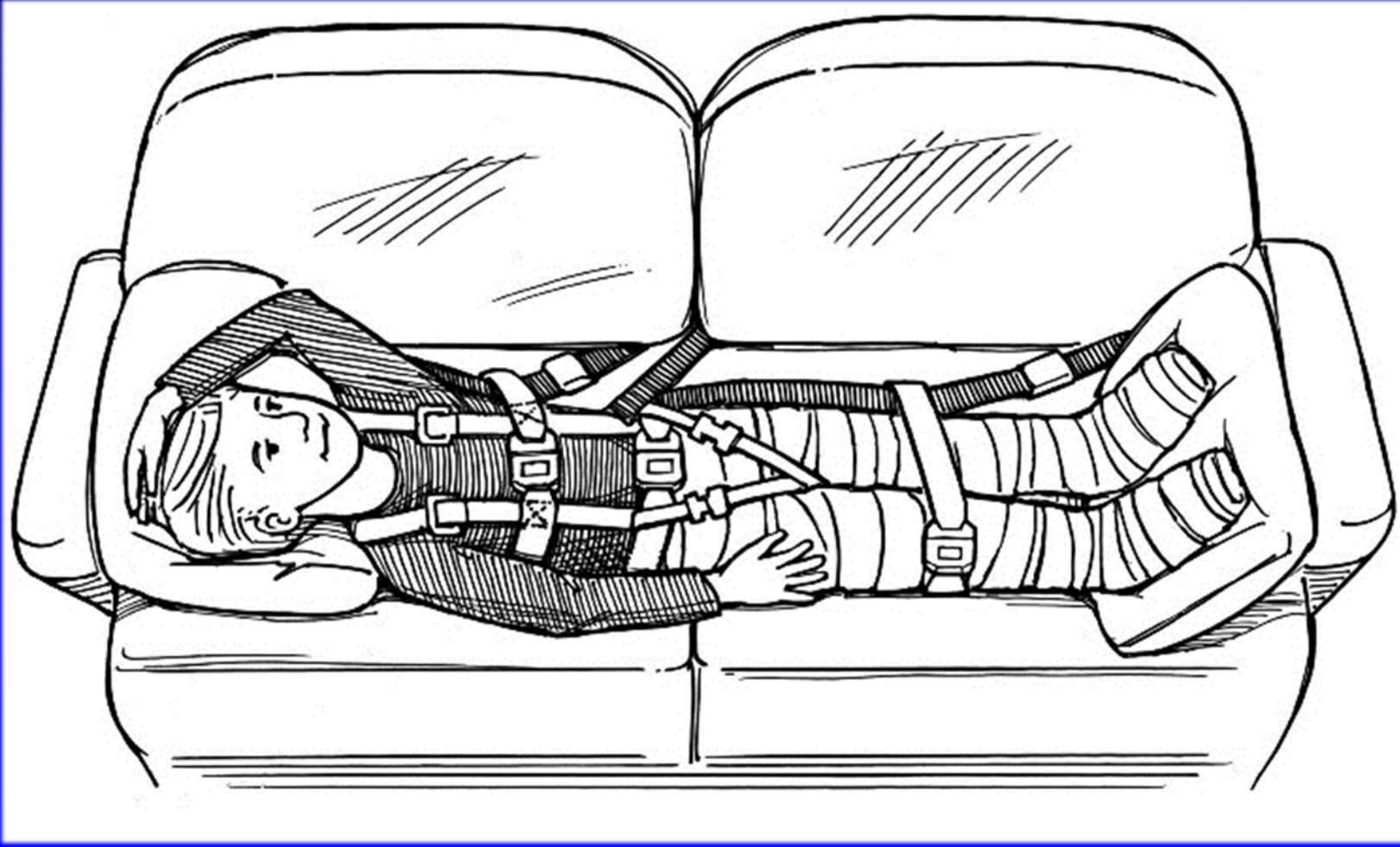
Safest travel possible for child is the goal



Scoliosis

- In severe cases, child may not be able to sit all the way back in seat or with bottom flat
- May need supplemental positioning and evaluation from a rehab therapist
- May need to lie down
- May require a wheelchair with customized inserts





Principles and Challenges

Seek consultation from specialists

- Child Passenger Safety Technicians with enhanced training

<http://cert.safekids.org>

- National Center for the Safe Transportation of Children with Special Healthcare Needs

<http://www.preventinjury.org/Special-Needs-Transportation>

Resources

- www.preventinjury.org
- www.aap.org
- www.NHTSA.gov
- www.safekids.org
- <http://cpsboard.org/>



Safe Travel for All Children

TRANSPORTING CHILDREN WITH SPECIAL HEALTHCARE NEEDS

Behavioral Challenges



- Chest Clip Guard
 - Requires key to lock/unlock



- EZ Guard Buckle Cover

Omphalocele

- Consider rear-facing seat designed for children with omphaloceles
- Secure prescribed medical equipment



Faculty Disclosure Information

I have no financial interests to disclose

