

DATE: FEBRUARY 24, 2022 PRESENTED BY: KYNDRA LATHIM, CPSTI

- Case Study 1: Hip SPICA casts
- Case Study 2: Behavioral concerns
- Low birth weight/premature infants
- Hypotonia
- Funding





### Case Study 1: Casts

- Child: 5 years old, 40", and 48 pounds
- Late diagnosis of hip dysplasia
- Hip SPICA cast
- Doernbecher Children's Hospital
- Lives one hour away





### Resources

- No-cost loaner programs
- Hands-on installation and harnessing education
- Return at removal

Drop it off or mail







Source: EZ ON

### Merritt Manufacturing Wallenberg

- Rear Facing: 5 40 pounds
- Forward Facing: 25 80 pounds, minimum of 2 years old\*
- Hammock
- Wedge





Source: Merritt Manufacturing

### **EZ-ON Lay Down Vest**

- 12 months+
- 22 106 pounds
- Shorter than width of vehicle
- Restrictions



Source: EZ ON



### Hope Car Bed

- 4.5 35 pounds
- 13 29 inches\*
- Restraint bag or harness
- Restrictions



Source: Merritt Manufacturing



- Child: 7 years old, 4'6, and 65 pounds
- Autism Spectrum Disorder, hyperactive
- Outgrown harness car seat and ready to move to a booster
- Plays with chest clip







#### Case Study 2: Let's talk about boosters

#### What is a booster seat?

Positions the adult seat belt to properly fit a child's bady. Places the lap portion on the child's hips/upper thighs and the shade houlder.

#### **Best Practice**

- When the child outgrows the carness car seat (4 7) years old)
- Booster is only as safe as a makes it.

#### **Oregon Law**

- ust stay until 8 or 40 pounds and
- Washington L
  - old and stay in the booster until 4'9
    - Child under the age of 7 must use a child restraint



- Conventional limits
- Cannot modify
  - Families get creative!
- Adaptive car seat and vest options



Source: NHTSA



- Merritt Manufacturing Roosevelt
  - 33 115 pounds, 62" tall
- Customizable adaptive car seat









- EZ-ON Upright Vest
  - 31 168 pounds
  - XS L, custom sizing available
- Vehicle limitations
- School bus







Source: EZ ON

- Moving forward
  - Address current situation
  - Large medical seat
  - Vest
  - Work with behavioral therapist



### Low Birth Weight and Premature Infants

- Low birth weight: <5.5 pounds</li>
- Premature: <37 weeks gestation</li>
  - Increased risk of apnea, bradycardia, and desaturations





### Low Birth Weight

- Low birth weight: <5.5 pounds
- 4 pound minimum
  - 4 rear-facing only car seats start at 3 pounds!
- Lateral blanket support
  - Head inserts/body pads





### Low Birth Weight



Evenflo LiteMax 35



Cosco Light n Comfy



Chicco KeyFit 30



#### **Premature Infants**

- Coffee straw airway
- Positional apnea
- Car Seat Tolerance Screening
  - Prematurity, cardiac complications, Down syndrome, etc.
  - Baby's car seat, angle of recline
  - 90 120 mins
  - Screening HR, RR, and O2 Saturations



### **Premature Infants**

- Car Beds
  - Merritt Manufacturing Angel Ride
  - Dorel Dreamride
  - Merritt Manufacturing Hope

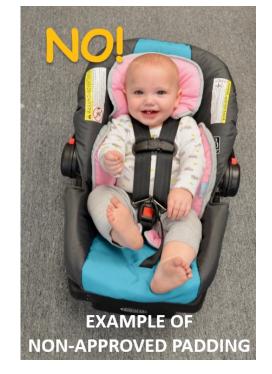






### Low Birth Weight and Premature Infants

- How can you help a family prepare?
  - 4 lbs car seat
  - No extras
  - See or become a CPST







### Low Birth Weight and Premature Infants

- Myth busters!
  - Seatbelt OR LATCH
  - Middle isn't necessary
  - Handles vary
  - All car seats sold in the US are safe



### Hypotonia

- Cerebral Palsy, Down syndrome, global developmental delay, etc.
- Rear-face as long as possible
- Forward-face in a semi-reclined position
- Maintain airway, position hips/trunk, and support extremities



### Hypotonia

- Come see a special needs trained CPST
- Conventional car safety seats
  - Graco Extend2Fit and Evenflo Titan 65/Sureride
- Use blankets
- Do not recline the vehicle seat







### Hypotonia

- Large medical seats, adaptive boosters, and vests
  - Special needs trained CPST and/or PT/OT
  - Try before you buy
- Wheelchair transport





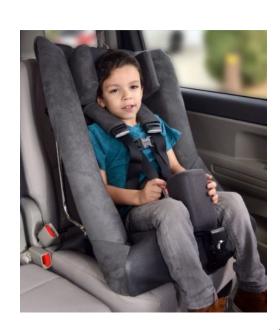
## Large Medical Seats



Source: Merritt Manufacturing



Source: Inspired by Drive



## **Adaptive Boosters**







Source: Thomashilfen



Source: Merritt Manufacturing

### Vests



Source: Merritt Manufacturing



Source: Besi Moore



### You Determined a Need...What's Next?

- No-cost adaptive seating assessments
  - In-person, virtual, team work
- Providers can bill for products
- Oregon Health Plan
  - Denial
  - DD Services, K-Plan
  - CIIS



## Funding

- Keep us updated!
- Non-profit grants
- Grants in the tribal communities?



### **State Resources**

- Oregon
  - Kyndra Lathim, OHSU Doernbecher Children's Hospital
    - 503-494-3735
    - lathim@ohsu.edu
  - Randall Children's Hospital
    - 503-413-4005
- Washington
- Idaho
  - Jen Ellis, St. Luke's Children's Hospital, Boise
    - 208-381-3033
    - childrenscarseatprogram@slhs.org



## Questions?





# Thank You