



Child Passenger Safety (CPS) Webinar
Pediatric Biomechanics for CPS
Participant Quiz & Evaluation Form

May 2017-May 2018: If you listen to the Pediatric Biomechanics for CPS webinar and you complete the following quiz and evaluation form, you can send it back to cps@miemss.org to receive one CEU towards your CPST recertification.

Quiz

- 1) General Stapp is recognized as being the first to really study occupant protection with a focus on crash dynamics. Who/what were his test subject/s? (circle best answer)

Pigs Himself Crash test dummies Army recruits

- 2) To what does the term 'occupant kinematics' refer?

- First crash of a collision
- Second crash of a collision
- Third crash of a collision

- 3) To what does the term 'impact biomechanics' refer?

- First crash of a collision
- Second crash of a collision
- Third crash of a collision

- 4) Name one specific reason why children are not "little adults" nor the same as child dummies?

- 5) Which of these methods are used in research on pediatric injury biomechanics? (circle any)

Cadaver studies Computational modeling X-Box sensor/scanner of car seats

- 6) Given the number of car seats and vehicles available in the U.S. market, approximately how many possible car seat-vehicle configurations are there? (circle one)

1,000 40,000 90,000 200,000

- 7) What was the name mentioned by Dr. Belwadi that the researchers gave to the overlaid images of multiple child restraints, as they examined their dimensional space with regard to how they'd fit in vehicles? (circle one)

Box Blob Bubble Bundle



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- 8) The term “nearside” refers to occupants who are seated in the vehicle on the side closest to where an impact occurred. True or False.
- 9) According to Dr. Belwadi, side impact crash testing on dummies in booster seats showed that side airbags (“curtains”) were effectively protecting the 6 year old dummies. True or False?
- 10) What was the main reason given by Consumer Reports to recommend that children be moved from their rear-facing only car seat to a rear-facing convertible car seat around age 1? (select best answer)
- Infants outgrow their RFO seats by length or height around age 1
 - The weight limits given on the RFO seats are not realistic.
 - Infants over age one are more likely to have their heads hit the back of the vehicle seat in a crash if they are in a RFO seat.

In addition to the quiz, please complete this evaluation form and send back in order to receive one SKWW CEU towards your recertification.

1 – Poor to 5 – Excellent

Please rate the objective or component:	1	2	3	4	5	Comments
How well you learned the basic mechanisms causing injury to children in motor vehicle crashes and how car seats are protective.						
How well you can describe how car seats might be/are designed to protect against side or lateral crashes.						
Your knowledge of challenges related to car seats fitting into vehicles, particularly in the rear seating locations.						
How well you can explain the rationale for why children might be safer switching to a rear-facing convertible car seat at age one.						
Knowledge of the speaker: Dr. Belwadi						
Relevance of the presentation to you and your work						



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Overall quality of the webinar						
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What part of the webinar was most useful for you in practice?

What part of the webinar was least useful for you?

What other topics/materials would you like to see covered in future webinars, materials, or trainings?

Please add me to your database to receive free, periodic updates on child passenger safety.

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