

Webinar: Occupant Kinematics, Case Studies and Tips for First Responders on a MVC Scene

Recorded live on February 19, 2021

Quiz for CPST CEU credit

Please answer these questions and evaluation items, then scan/send/email back to MIEMSS at sogaitisjones@miemss.org or CPS Healthcare Project, 653 W. Pratt St, Baltimore, MD 21201 or fax: 410-706-3660. You must get 8/10 of the quiz correct to receive a certificate of proof of earning 1 CPST credit. If you are Maryland EMS and wish to receive community education credit, please include your provider number.

1. How did the fatality rate for motor vehicle crashes change in 2020 (pandemic year) over 2019?
 - a. Decreased about 25%
 - b. Increased about 25%
 - c. Stayed about the same

2. What is a typical duration (time) of a motor vehicle crash?
 - a. .1 - .15 seconds
 - b. .33 - .5 seconds
 - c. .6 - 1.0 seconds

3. In a rear-end collision, how would the front car driver's body initially move?
 - a. Driver's head and chest would move toward the steering wheel
 - b. Driver's head would move back into the seat's headrest
 - c. Driver's torso would load onto the lap and shoulder belt

4. How much distance does a body rebound after a collision moves it initially in one direction?
 - a. 2-5 inches
 - b. Same distance as initial travel distance
 - c. 1/3 of travel distance in the initial direction

5. What are the goals of seat belts? (select any)
 - a. Prevent contact between the occupant and the vehicle
 - b. Position occupant correctly prior to the collision
 - c. Increase the time/duration of the collision
 - d. Reduce the change in velocity on the occupant
 - e. Reduce the wrinkling on the occupant's clothes in a crash

6. Which of these two less than perfect options is a little safer than the alternate for occupants?
 - a. Seat belt used/no airbag deployed
 - b. No seat belt used/airbag deployed

7. What needs to be inspected after a collision to determine use or non-use of safety equipment?
 - a. Seat belt webbing - is it stretched?
 - b. Retractor—is the seat belt locked?

- c. Buckle assembly—is it scrunched down?
 - d. D-ring on the B pillar-- are there abrasions on the belt at the D-ring?
 - e. Buckle tongue—can it be re-buckled? Are there marks on it?
 - f. All of the above
8. What might be indicated if you are inspecting a car safety seat after a crash and its harnesses are pulled through the shell of the seat? (select any)
- a. The car seat was old and brittle
 - b. The harnesses were adjusted too tightly
 - c. The car seat was secured improperly with both the seat belt and the lower anchors
9. What are some challenges for first responders and crash re-constructionists in determining what happened in a MVC? (select any)
- a. The car seats are moved
 - b. No photos of the crash and scene are taken or allowed
 - c. Care of the patient comes before any investigation
 - d. Documents such as MMUCC and eMEDS are not completed properly
 - e. Car safety seat expertise may be needed
10. True or False: In eMEDS, it is important to document where the patient was transported so that law enforcement can get additional information for the investigation.
11. In eMEDS on the “Conditions” page, which statements below are true about the difference between a “trauma patient” and a “medical patient” in a MVC?
- a. All occupants are trauma patients with varying type and severity of injury
 - b. ‘Medical patients’ refers to patients with a chief complaint other than injury (typically not involved in a collision).
 - c. Occupants that are trauma patients might also be a medical patient if their level of consciousness changed and that caused the crash.
 - d. All of the above statements are true.

Evaluation

1. How much did you learn from listening to parts of this webinar? (1=least amount, 5=most) amount. Circle one number for each part:

- Occupant Kinematics 1 2 3 4 5
- Case Studies 1 2 3 4 5
- eMEDS 1 2 3 4 5
- Data analysis overview 1 2 3 4 5

(continues on next page)

2. Are you a (check or circle any that apply):

- a. CPST- in Maryland
- b. CPST - other state/country
- c. A Maryland emergency medical services provider seeking CEUs.

Provider #: _____

- d. Other: _____

4. What other topics in child passenger safety or occupant protection would you like to have as a webinar?

5. Other comments