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Department of Surgery

Instructional Posters and Prevention Education: Do they really Work?

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Published In/Presented At

McQuilken, W., Shisslak, D., Schultz, J. (2014, April 2-5). *Instructional posters and Prevention Education: Do they really Work?* Poster presented at: The Society of Trauma Nurses 17th Annual Conference, New Orleans, LA.

McQuilken, W., Shisslak, D., Schultz, J. (2014, April 27-29). *Instructional posters and Prevention Education: Do they really Work?* Poster presented at: The Lifesavers Conference, Nashville.

McQuilken, W., Shisslak, D., Schultz, J. (2014, June 24-26). *Instructional posters and Prevention Education: Do they really Work?* Poster presented at: The national Highway Traffic Safety (NHTSA) Region II Passenger Safety conference.

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Instructional Posters and Prevention Education: Do They Really Work?

Background:

This study aimed to investigate child passenger safety (CPS) knowledge levels in parents of infants born at Lehigh Valley Health Network for effectiveness of CPS educational posters, which were developed to instruct parents on proper child safety seat (CSS) infant positioning and CSS restraint system usage. Posters were displayed in the Emergency Department, Pediatric Unit, Pediatric Intensive Care Unit, Neonatal Intensive Care Unit, and each Mother-Baby Unit (MBU) room. We hypothesized that the posters displayed in the MBU, along with patients socioeconomic status, play a role in CPS knowledge.

Study Design:

Randomized survey sample.

Setting:

Mother-Baby Unit, Lehigh Valley Health Network, Allentown PA, January 2013 through May 2013.

Sample:

201 parents were randomly selected by either the Trauma Prevention Coordinator or the Parent Education Coordinator while rounding on the MBU.

Methods:

A questionnaire was randomly administered to parents of newborns. The questionnaire was designed to test the parents' knowledge of CPS with the goal of identifying whether knowledge was gained during their hospital stay and, if so, whether the knowledge was acquired from the CPS poster. Data collected was specific to the understanding of proper infant placement into the restraint system, usage of the instructions provided on the poster, level and source of knowledge prior to birth admission, and perceived knowledge gain since admission. The questionnaire also captured demographic information—gender, age, race, number of children already in the home, level of education, and insurance status—to determine whether any of these factors affect CPS knowledge.

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Properly Securing Child in Rear-Facing Seat

LEHIGH VALLEY HEALTH NETWORK

- 1. Place baby's back and bottom flat in seat.
- 2. Harness slots should be at or below baby's shoulders.
- Harness straps must be snug. You should not be able to pinch any slack in harness at baby's shoulders.
- **4.** Place harness retainer clip at armpit level.
- 5. Avoid bulky clothing under the snug harnesses. Place a blanket over the child after child is secured in the car seat.
- Place rolled blanket between child and crotch strap (if necessary).
- Place rolled blankets at sides of head for positioning (if necessary).
- Baby's head must be 1 inch below top of car seat shell.
- Always follow manufacturer's instructions for placement of carrier handle.
- **10.** No nonregulated products attached to the seat, i.e. toys, wrap and rides, etc.







Lehigh Valley Health Network, Allentown, Pennsylvania

Always follow vehicle and car seat instructions for correct use. **NEVER** leave your child unattended in car seats, inside or outside of the vehicle.



s: or write your answers in the space provided. Family Friends At or below the shoulders At the shoulders \Box Above the shoulders Health care provide Car seat check Car seat instructions 7. How should the harness straps be Loose with slack Snug without slack \Box Tight pushing on the shoulders 2. Has your knowledge of child passenge safety increased during this hospital stay? 8. Where should the retainer clip or chest clip Yes No Anywhere . What improved your knowledge since Over the abdomen dmission here? Pediatriciar □ Nursing staff At armpit level Demographic Information: Other health care provide Sex: M F Age____ Hospital handouts Race: White only Black only $\square >_1$ race □ No new knowledge gained Hispanic Other . How should the child be dressed before placement in the car seat? # Children in house besides new baby Non-bulky everyday clothing Dress according to weather conditions <u>Insurance Status</u> Private/Commercial Medicare Heavy clothing to keep the baby warm ☐ Self Medicaid Where should bulky clothing be placed? Under the harness straps Level of Education: □ Less than High School □ Some college On top of the harness straps College degree Can be placed in either position High School Back side questions: Verbally asked: **PYN:** Did you read the (child safety seat) poster in the room? Yes or No?

you answer any of the survey questions? Yes or No?

PKYN: Did you gain any knowledge from reading the poster that helped

Conclusion:

When utilized in the Mother-Baby Unit, the CPS posters appear to increase parental knowledge of child passenger safety as well as child safety seat information. Of the parents surveyed, 57.9% reported that they never read the CPS poster. In addition, while more females completed the study than males, females had a lower accuracy rate. These two factors may suggest a need for more appropriate poster placement in the patient room. Results also show that socioeconomic status is a factor in baseline CPS knowledge; education for this population needs to be heightened.

Results:

In the 201 completed surveys, females completed 71.2% of the surveys, males 28.8%. However, 64.6% of the males had correct answers as opposed to 55.6% of females (p = .054). Parents >40 years of age had more correct answers (70%) as compared to those <30 years of age (53%, p = .246) or ages 30-39 (63%, p = 1.0). Using a oneway ANOVA with Bonferroni Correction, correct answers based on race showed "white" as 63%, with white vs. Hispanic (40.5%, p<.001). All other race comparisons were not significant. Absolute trending was displayed in education level, where "college degree" had most accurate answers (63%) (high school (51%) vs. college p=.009). Correct answers of those with private insurance was 68.1% as compared to parents with Medicare (35.4%, p < .001) or Medicaid (42.9%, p < .001). Of the study participants, 42.1% of parents acknowledge having read the poster in the MBU. Of those who read the poster, 77.5% reported that they had an increased knowledge of CSS and CPS after reading it.

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