

BACKGROUND

- Motor-vehicle crashes remain a leading cause of death among children. In 2024, **795** children younger than 13 died in U.S. motor-vehicle crashes (IIHS, 2024).
 - Correct use of age and size-appropriate restraints reduces crash-injury risk by 71%–82% for children; booster-seat use reduces serious-injury risk by 45% among children ages 4–8 years (CDC, 2024).
 - According to the 2025 National Digital Car Seat Check Form Database, 69.2% of car seats nationally are misused; in Nevada, that rate is **80.6%**
 - Key barriers: low caregiver knowledge and low risk perception (Sartin et al., 2023)
- Education interventions significantly improve CPS knowledge and restraint practices (Ekundayo et al., 2013; Macy et al., 2025)
- The Healthy Living Institute (HLI) at UMC is the largest CPS program in Southern Nevada and has provided community CPS education and car-seat distribution for 25+ years. This evaluation establishes a structured method to measure caregiver learning and identify opportunities to tailor future outreach.

PURPOSE

Primary Aim

Estimate the immediate change in paired CPS knowledge scores among adult caregivers following structured CPST-delivered education.

Secondary Aims

- Describe baseline CPS knowledge gaps in the participating caregiver population.
- Explore whether baseline scores differ by prespecified demographic characteristics and preferred language.
- Establish a sustainable evaluation process for the UMC HLI CPS program.



Design

Pre/post descriptive Quality Improvement study. IRB submission in progress.

Population

Adult caregivers (18+) attending HLI car seat check events and education classes. Any language; interpretation services available.

Procedure

- Pre-test: 9-item CPS knowledge survey via SurveyMonkey (English & Spanish; 5th grade reading level; anonymous phone ID for matching)
- Intervention: Structured CPS education by certified CPST
- Post-test: Same 9-item survey immediately following education

Timeline

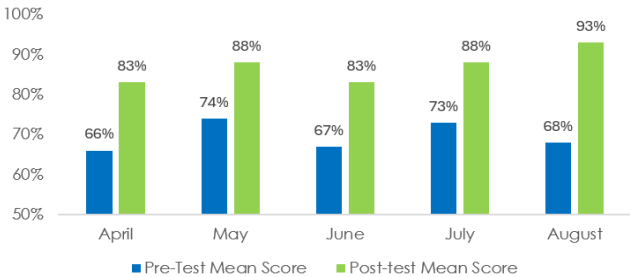
Implementation began in April 2026 and continued through August 2026. Estimated enrollment: 240-600 participants.

REFERENCES

Available on request.

RESULTS

Monthly Pre/Post Survey Score Improvement



CONCLUSIONS

- Preliminary data from **206** caregivers demonstrates significant CPS knowledge enhancement following CPST-delivered education, with mean scores improving from 70% (pre-test) to **87%** (post-test) across April–August 2026
- This study provides a replicable model for community-based CPS programs seeking to document program effectiveness for grant reporting and publication.
- Limitation: On average, only **21%** of post-tests were completed. HLI staff must prioritize post-survey administration to ensure matched pairs for full analysis
- Full conclusions pending completion of September 2026 data collection