

Eastern Association for the Surgery of Trauma

28th Annual Scientific Assembly

Sunrise Session 4
Don't Have Time for Pediatric Injury Prevention? Now You Do!
Packaged Prevention Programs That Work

January 14, 2015
Disney's Contemporary Resort
Lake Buena Vista, Florida

Don't have time for Pediatric Injury Prevention? Now you do! Packaged prevention programs that work Reach - Prevent - Empower Richard A. Falcone, Jr., MD, MPH EAST January, 2015

Disclosures

- I have no relevant financial relationships with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in this CME activity
- I do not intend to discuss an unapproved/ investigative use of a commercial product/device in my presentation
- This work was funded in part by Kohl's for Kids and Toyota

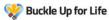












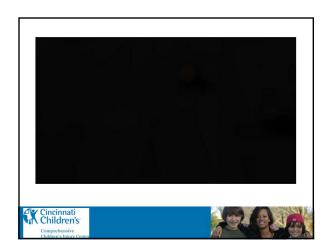
"IF I ONLY KNEW"

The words of an anguished mother who lost her young child in a car crash haunt us, but also inspire us each day as we work to help make sure that every person is safe on the road.

- Program began in 2004
- Community-based partnership between hospitals and churches
- Delivered over a 6 week period





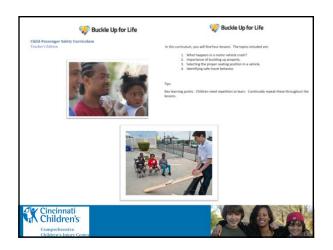


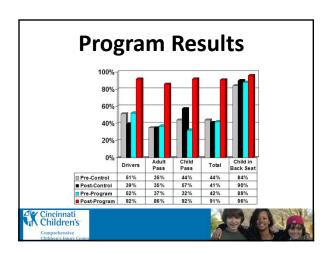
Program Components

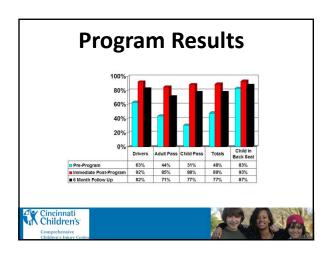
- Presentation for Adults
- Presentation for Teens
- Lessons for Children
- Free car seats and installation instructions for program participants

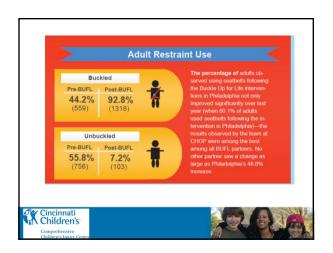


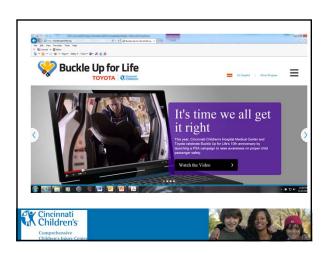












Building Safety on Your Block A Home Safety Initiative

BUILDING SAFETY ON YOUR BLOCK





Background

- Despite a 25% reduction over the past two decades the home is the leading location of injury for children under the age of 5 years old
- Home based injuries annually result in:
 - 13 million outpatient visits
 - 4 million emergency room visits
 - 2,800 deaths







Home Safety Interventions Work

 Injury reduction of up to 70% for modifiable medically-attended injuries





Phelan, K, et.al. Arch Ped & Adol Med April, 2011 Kendrick, D, et al. Cochrane Database of Systematic Revieu





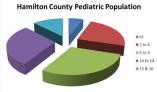
Purpose

- Evaluate the impact of a community based volunteer implemented home safety intervention
- Hypothesis: Community volunteers, trained on the day of intervention, could provide a home safety bundle within a high risk community resulting in a reduction of emergency room attended injuries.





Hamilton County Specific Data





178,204 children 0-16 years old

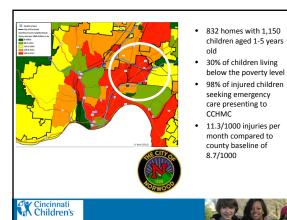
19,236 injuries a year 108/1000 children

Hamilton County Injury Surveillance System (2010); US Census 2010





The Initial Target • Population - Children aged 1-5 years old • Account for 24% of the population 0-16 (@ 43,000)/178,000) • Over 5,500 injury related ED visits a year in HC - Injuries occurring in the home - Cost | Core | Cost | Core | Cost | Cos



The initial location Norwood, OH

- 3 square miles (population of 19,200)
- Incorporated in 1888
- Old Neighborhood
 - Old housing stock
 - Shifting from blue-collar factories to office parks
- Local Government to Partner
 - Mayor, Council, Health Dept., Fire Dept., and Schools
- Abundance of Leaders/Organizations
 - Norwood Service League, Every Child Succeeds, HIPPY, YMCA, Family & Children First, Religious Council





Preventing Injuries in Norwood (PIN)

A partnership between the community and Cincinnati Children's















Safety Day

- 2-3 events annually
- Organized by PIN team with CCHMC Injury Prevention
- Family Recruitment
- Volunteer Recruitment
- Two volunteers per home
 - One volunteer as educator
 - One volunteer as installer
- 8am 12pm
- Concluding with volunteer lunch and debrief







Results

- Five Home Safety Days from May 2012-May 2014
- 207 homes received the bundle (25% of homes in Norwood)
- Additional 157 homes outside the initial target also received the bundle
- 185 volunteer participated



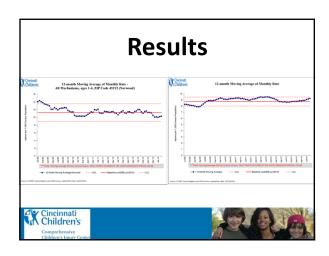


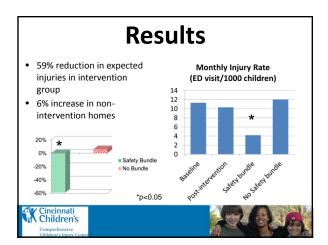
Results

- 7-60% family cancellation rate
 - Too early in day
 - Did not want volunteers entering the home
 - Forgot they had signed up
 - Too busy on day of intervention
- < 20% volunteer no-show









Limitations

- Families were self-selected
- Family cancelation rates
- Volunteer retention
- Consistency of bundle implementation
- Quality of family tracking and injury data



Conclusions

- Volunteer implemented home safety program can result in injury reductions approaching that of interventions by trained experts
- Spread of this intervention may lead to a significant shift in the population level injury rates





Take Aways

- Partnering with the community is essential
 - Trust
 - Reach
- Implementing proven programs can reduce up front time and allow resources to be used more efficiently





Thank You!







