

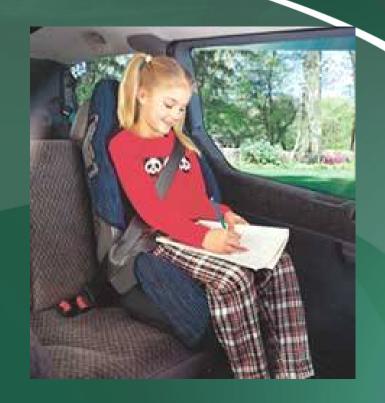
Child Passengers Travel At Risk

- Motor vehicle crashes are the leading cause of death for children (CDC, 2007)
- Only 20-25% of booster-sized children ride in booster seats (CDC, 2005; Durbin, Kallan, & Winston, 2001, Partners for Child Passenger Safety, 2005)
 - Booster size is approximately:
 40-80 lbs., under 4/9" tall, 4-8 years old
 - Booster seats reduce crash injury risk by 59% versus just a safety belt for 4 to 7-year-olds (Durbin, Elliott, & Winston, 2003)
- 30% of children are permitted to ride in the front seats of vehicles, increasing their mortality risk by 46% (Braver et al., 1998; Ferguson et al., 2000)



Boosters are a Tough Sell

- Caregivers of booster-age children are a particularly difficult audience to reach
 - Reduced perception of risk
 (Sandman, 1991; Slovic, 1991; Will & Geller, 2004; Will, 2005)
 - Motor vehicle travel
 - Experienced parents
 - "Safe enough" in a belt



- Audience is unengaged
 - Traditional messages often fail to motivate

Our Research Employs High-Threat Messages

- Research in other health areas supports the use of fear appeals that are *properly* designed and targeted appropriately (Witte, 1998; Witte & Allen, 2000)
 - Improperly designedtune out the message



Protect your child from unnecessary injuries.

Call 464-9999 to get your safety seat checked today.

TWO KEY ELEMENTS:

• Messages must have a <u>high threat</u> component *and* promote <u>high</u> <u>efficacy</u> for protecting oneself from the hazard (i.e., provide an action plan) (Leventhal & Cameron, 1994; Witte, 1998; Witte & Allen, 2000)

Study Overview

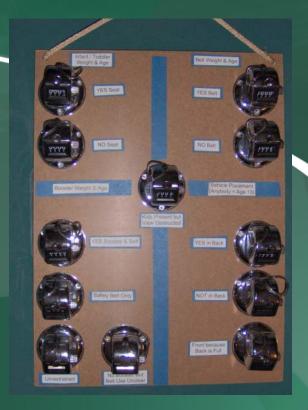
- Developed 6-minute threat-appeal video; worked with professional video production company
 - Evoked a high sense of vulnerability and bolstered efficacy



- Evaluated via an interrupted time series design with similar controls for comparison using both survey and behavioral observation data
 - Partnered with two large preschool/after-school care programs, using two similar control sites for comparison (N = 226)

Methods/Materials

- Caregivers participated during pick-up times at daycare sites
- Surveys
 - Knowledge, Attitude, & Practice Survey
 - Risk Behavior Diagnosis Scale (Witte, Cameron, McKeon, & Berkowitz, 1996)
- Parking Lot Observations
 - Weekly morning observations
 - Clicker Board
 - Inter-rater and Cohen's
 Kappa reliability coefficients were
 excellent (>.90 & >.75)



Infant/Toddler Weight Age	Safety Belt Weight/Age	
Yes Seat	Yes Belt	
No Seat View Ot	No Belt Structed	
Booster Age/Weight	Vehicle Placement (Kids < 13)	
Booster & Safety Belt	Yes in back	
Safety Belt Only	Not in back	
	Front b/c back full	
Unrestrained No Booster But Belt Use Unclear		



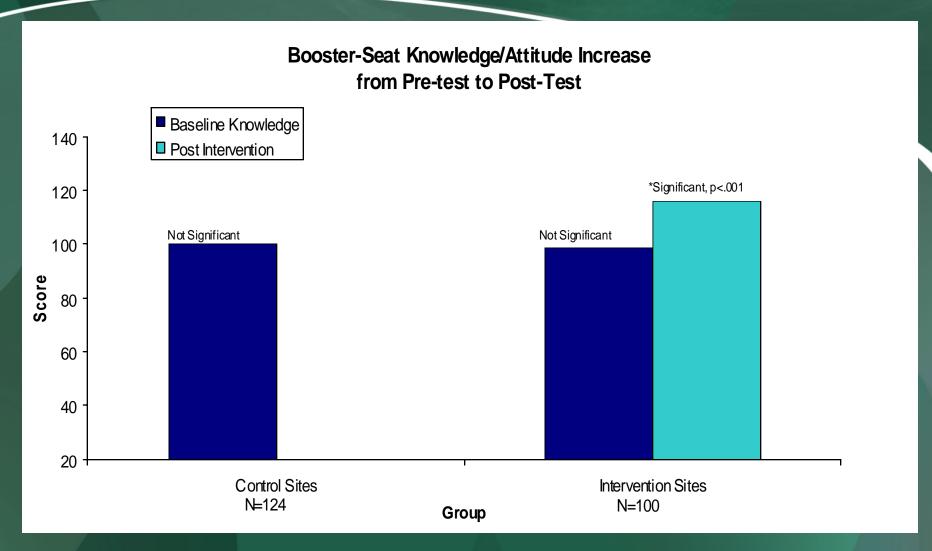
Demographics

Demographics	for Partici	pants by Group
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Descriptor	Intervention (n = 100)	Control (<i>n</i> = 126)	Total Sample (n = 226)
Ethnicity			
African American	27.3%	31.1%	58.5%
Asian/Pac. Island	.9%	1.3%	2.2%
Caucasian	10.6%	18.9%	30.0%
Hispanic	2.7%	1.3%	4.0%
Native American	.4%	.4%	.9%
Other	2.2%	2.2%	4.4%
Education Le∨el			
Some High School	.9%	.9%	1.7%
High School/GED	11.1%	8.7%	20.0%
Some College	13.3%	21.8%	35.4%
2-Year Degree	5.3%	4.8%	10.2%
Bachelor's Degree	9.7%	11.4%	21.2%
Graduate Degree	4.0%	7.4%	11.5%
SES Level			
\$0-\$15,999	8.9%	10.0%	19.0%
\$16,000-\$24,999	13.7%	8.3%	23.0%
\$25,000-\$49,999	12.0%	9.6%	21.2%
\$50,000-\$99,999	7.1%	18.8%	27.1%
\$100,000 +	2.2%	7.4%	9.7%

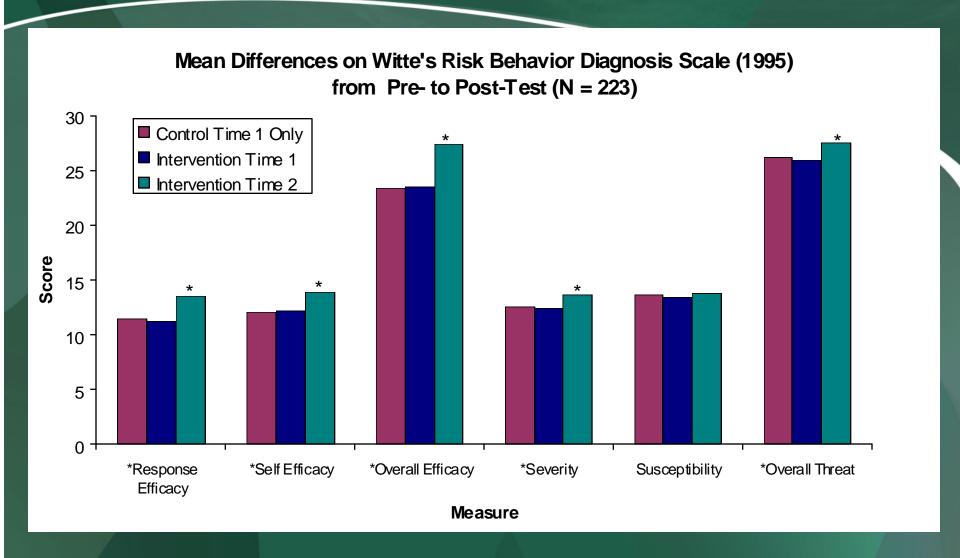
•80% Female; 93% Parents or Step-parents

Significant Knowledge/Attitude Increase



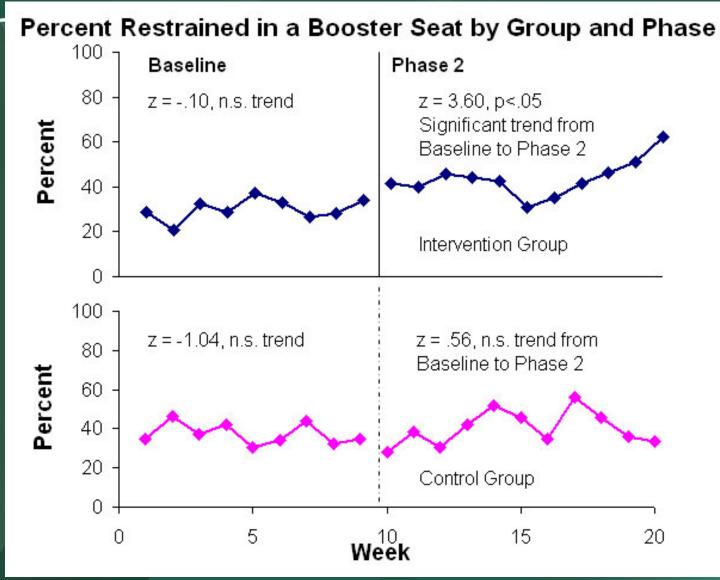
* t(99) = 12.25, p<.001, alpha was lowered to .017 according to Bonferroni's correction method

Significant Fear & Efficacy Increase



^{*} t(99) = 4.64, p < .001 for overall fear; t(99) = 8.08, p < .001 for overall efficacy; alpha was lowered to .017 according to Bonferroni's correction method

Significant Increase in Booster Seat Use



•No change in back seat use, possibly due to ceiling effects.

Limitations & Future Research

- Study was limited in scope and length
- Dissemination Research
 - Well-child and other medical visits
- Additional Evaluation Research
 - Elementary school settings
 - Larger sample of target age
 - Longer follow-up



