Use of Child Safety Seats: Education Programs Alone

Summary Evidence Tables

Educational Programs for Parents

Study	Intervention/Comparison Elements	Study Population	Outcome Measure	Base- line	Effect	Follow-Up Time
Author (Year): Christophersen et al. (1985) Study Design: Randomized clinical trial Quality of Execution: Fair	Intervention: Group I: Discussion in prenatal class; demonstration; handouts; standing orders for demonstration and existing loan program, discharge orders for restraint use; reinforcement Group II: loan program offered; discussion in prenatal class; discouraged from in	Perinatal women; middle/upper SES	Observed correct use of child safety seats: Group I vs II Group I/II vs	94%	-2% 93%	Discharge from hospital (all comparisons)
Study Period: 1981-1982 Hospital	arms travel. N = 129 mother-infant pairs Comparison: No intervention for historical comparison group III (n=not stated)		III	0.70	5570	
Author (Year): Goebel et al. (1984)	Intervention: Class-room instruction incorporated into ongoing obstetrical education program: question/answer,	Perinatal women, middle-upper SES	Observed correct use of child	8%	2%, not significant	Discharge from hospital
Study Design: Before-after	audiotape, car seat display and demonstration, pamphlet, shopper's guide		safety seats			
Quality of Execution: Fair	Comparison: Basic obstetrical program in the pre-intervention period					
Study Period: 1981-82 Hospital	N = 182					
Author (Year): Tietge et al. (1987)	Intervention: Group 1: Closed-circuit television instruction and information about restraints.	First-time mothers 16-45 years of age, residents of CA,	Observed correct use of child			Discharge from hospital (both arms)
Study Design: Non- randomized clinical trial	•Group 2. Same as group 1 plus 5-minute one-on-one instruction and practice session	10.8% Hispanic, 3.2% African- American	safety seats			
Quality of Execution: Fair	Comparison: no intervention		Group 1	63.3%	5.5%	
Study Period: Year of study unknown	N = 93		Group 2	63.3%	10.9%	
Evaluation Setting: Hospital						

Study	Intervention/Comparison Elements	Study Population	Outcome Measure	Base- line	Effect	Follow-Up Time
Author (Year): Arneson et al. (1990)	Intervention: 5 day educational program "Riding with Bucklebear": songs, filmstrip, coloring activities,	Children 2.5-5 years old; 39% female; "predominantly	Knowledge of automobile safety		t=3.6, p=0.002	2 weeks
Study Design: Before-after	structured play, handouts and activities sent home (n=33 children observed)	white, middle class" in a mid-western city	Observed		12%, x2=0.928,	2 weeks
Quality of Execution: Fair Study Period: unknown	Comparison: No program in pre- intervention period (n=35 children	(population 50,000)	correct use of child safety		p=0.33	
Evaluation Setting: Preschool	observed)		seats			

Educational Programs for Children

Educational Programs for Professional Groups

Study	Intervention/Comparison Elements	Study Population	Outcome Measure	Base- line	Effect	Follow-Up Time
Author (Year): Lavelle et al. (1992)	Intervention: Eight 30-minute training sessions during routinely scheduled officer briefings to improve enforcement	Police officers in Greeley, Colorado	Number of citations per month	0-10	10-20/month	6 months
Study Design: Non- randomized community trial	of existing mandatory restraint law; officers able to give coupon for attendance at an educational session for					
Quality of Execution: Fair	non-compliant motorists along with the citation. Fine waived if driver attended					
Study Period: 1987	session.					
Evaluation Setting: Police departments	Comparison: No program available in pre-intervention period or in comparison community					
Author (Year): Wolf et al. (1995)	Intervention: Hospital Program portion of the Nebraska Cares Project: development of professional education	Nursing or obstetrical department	Written policy for newborns	25.9%	62.3%, x2=67.44, p<0.001	Unknown
Study Design: Before-after	materials; development of educational materials for starting a restraint loan	directors at all hospitals with	Short term loan program available	58.8%	14.1%, x2=3.77, p<0.05	
Quality of Execution: Fair	program in hospitals; recommendations for hospital discharge policies	newborn delivery	Patient education			
Study Period: 1991-1992	Comparison: No program available in	services in Nebraska	program available	51.2%	44.1%, x2=43.04, p>0.000	
Evaluation Setting: Hospital	pre-intervention period					