## Use of Child Safety Seats: Education Programs Alone

### Summary Evidence Tables

#### Educational Programs for Parents

<table>
<thead>
<tr>
<th>Study</th>
<th>Intervention/Comparison Elements</th>
<th>Study Population</th>
<th>Outcome Measure</th>
<th>Base-line</th>
<th>Effect</th>
<th>Follow-Up Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Author (Year):</strong> Christophersen et al. (1985)  &lt;br&gt;<strong>Study Design:</strong> Randomized clinical trial  &lt;br&gt;<strong>Quality of Execution:</strong> Fair  &lt;br&gt;<strong>Study Period:</strong> 1981-1982 Hospital</td>
<td>Intervention: Group I: Discussion in prenatal class; demonstration; handouts; standing orders for demonstration and existing loan program, discharge orders for restraint use; reinforcement  &lt;br&gt;Group II: loan program offered; discussion in prenatal class; discouraged from in arms travel.  &lt;br&gt;N = 129 mother-infant pairs  &lt;br&gt;Comparison: No intervention for historical comparison group III (n=not stated)</td>
<td>Perinatal women; middle/upper SES</td>
<td>Observed correct use of child safety seats: Group I vs II Group I/II vs III</td>
<td>94% 0%</td>
<td>-2% 93%</td>
<td>Discharge from hospital (all comparisons)</td>
</tr>
<tr>
<td><strong>Author (Year):</strong> Goebel et al. (1984)  &lt;br&gt;<strong>Study Design:</strong> Before-after  &lt;br&gt;<strong>Quality of Execution:</strong> Fair  &lt;br&gt;<strong>Study Period:</strong> 1981-82 Hospital</td>
<td>Intervention: Class-room instruction incorporated into ongoing obstetrical education program: question/answer, audiotape, car seat display and demonstration, pamphlet, shopper’s guide  &lt;br&gt;Comparison: Basic obstetrical program in the pre-intervention period  &lt;br&gt;N = 182</td>
<td>Perinatal women, middle-upper SES</td>
<td>Observed correct use of child safety seats</td>
<td>8%</td>
<td>2%, not significant</td>
<td>Discharge from hospital</td>
</tr>
<tr>
<td><strong>Author (Year):</strong> Tietge et al. (1987)  &lt;br&gt;<strong>Study Design:</strong> Non-randomized clinical trial  &lt;br&gt;<strong>Quality of Execution:</strong> Fair  &lt;br&gt;<strong>Study Period:</strong> Year of study unknown  &lt;br&gt;<strong>Evaluation Setting:</strong> Hospital</td>
<td>Intervention: Group 1: Closed-circuit television instruction and information about restraints.  &lt;br&gt;·Group 2. Same as group 1 plus 5-minute one-on-one instruction and practice session  &lt;br&gt;Comparison: no intervention  &lt;br&gt;N = 93</td>
<td>First-time mothers 16-45 years of age, residents of CA, 10.8% Hispanic, 3.2% African-American</td>
<td>Observed correct use of child safety seats  &lt;br&gt;Group 1  &lt;br&gt;Group 2</td>
<td>63.3% 63.3%</td>
<td>5.5% 10.9%</td>
<td>Discharge from hospital (both arms)</td>
</tr>
</tbody>
</table>
## Educational Programs for Children

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<tr>
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| Author (Year): Arneson et al. (1990) | **Intervention:** 5 day educational program "Riding with Bucklebear": songs, filmstrip, coloring activities, structured play, handouts and activities sent home (n=33 children observed)  
**Comparison:** No program in pre-intervention period (n=35 children observed) | Children 2.5-5 years old; 39% female; "predominantly white, middle class" in a mid-western city (population 50,000) | Knowledge of automobile safety  
Observed correct use of child safety seats | t=3.6, p=0.002  
12%, x²=0.928, p=0.33 | 2 weeks |

## Educational Programs for Professional Groups

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