

Vaccination Programs: Provider Education When Used Alone

Summary Evidence Table - Updated Evidence (search period: 1980-2012)

Study	Location and Intervention	Population and Sample	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Follow-up time												
<p>Author (Year): Cowan (1992)</p> <p>Study Period: 1985</p> <p>Design Suitability (Design): Greatest (Group randomized trial)</p> <p>Quality of Execution: Fair</p> <p>Outcome Measure: PPV, Influenza</p>	<p>Location: USA, Illinois</p> <p>Provider Education: 1. Generic health assessment fact sheet attached to client's chart</p> <p>Comparison: 2. Usual Care</p>	<p>Setting: internal medicine resident clinic, University of Illinois</p> <p>Study Population:</p> <ul style="list-style-type: none"> adults mean ages 57-60 years <p>(Participants)</p> <table border="1"> <thead> <tr> <th>Group</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>62</td> </tr> <tr> <td>2</td> <td>45</td> </tr> </tbody> </table> <p>(Providers)</p> <table border="1"> <thead> <tr> <th>Group</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>16</td> </tr> <tr> <td>2</td> <td>13</td> </tr> </tbody> </table>	Group	N	1	62	2	45	Group	N	1	16	2	13	<p>PPV Group 1 vs 2</p> <p>DT Group 1 vs 2</p>	<p>0.0%</p> <p>0.0%</p>	<p>10.3%</p> <p>1.6%</p>	<p>10.3% change (nonsig) (CI: -0.8, 21.4)</p> <p>1.6% change non significant (CI: -1.5, 4.7)</p>	<p>Oct 1 – Dec 31 1985 (3 months)</p>
Group	N																		
1	62																		
2	45																		
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2	13																		
<p>Author (Year): Crouse (1994)</p> <p>Study Period: 1991</p> <p>Design Suitability (Design): Greatest (Prospective cohort study)</p> <p>Quality of Execution: Fair</p> <p>Outcome Measure: Influenza</p>	<p>Location: USA, Northern Minnesota</p> <p>Intervention: 1. Standing orders 2. Physician reminders</p> <p>Comparison: 3. Physician education</p>	<p>Setting: community hospitals</p> <p>Study Population:</p> <ul style="list-style-type: none"> inpatients adults; otherwise, not described <p>(Hospitals)</p> <table border="1"> <thead> <tr> <th>Group</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>2</td> <td>2</td> </tr> <tr> <td>3</td> <td>2</td> </tr> </tbody> </table>	Group	N	1	2	2	2	3	2	<p>Group 1 vs 2</p> <p>Group 1 vs 3</p> <p>Group 2 vs 3</p>	<p>40.3%</p> <p>40.3%</p> <p>17%</p>	<p>17%</p> <p>9.6%</p> <p>9.6%</p>	<p>23.3 pct pts (p < 0.002)</p> <p>30.7 pct pts (significance not provided)</p> <p>7.4 pct pts (nonsignificant)</p>	<p>1991-1992</p>				
Group	N																		
1	2																		
2	2																		
3	2																		

Study	Location and Intervention	Population and Sample	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Follow-up time
<p>Author (Year): Taylor (2008)</p> <p>Study Period: Nov.2003-Jan. 2006</p> <p>Design Suitability (Design): Greatest (Group randomized Controlled Trials)</p> <p>Quality of Execution (# of limitations): Good (1)</p> <p>Outcome Measure: Childhood Series</p>	<p>Location: USA, King County, Washington State</p> <p>Intervention: 1-Hour educational Program comprising interactive computer slide presentation + Routine VFC program</p> <p>Control: Routine VFC program only</p>	<p>Setting: Private Pediatric and Family Medicine Practices</p> <p>Study Population:</p> <ul style="list-style-type: none"> • Private pediatric and Family medicine Practices in King County • Participate in VFC program • Administer at least 35 doses of MMR in 2002 <ul style="list-style-type: none"> • N=91 • n=73 • Intervention=37 • Control=36 <p>Patient Characteristics:</p> <ul style="list-style-type: none"> • Not stated 	<p>The Primary study outcome was the Practice Immunization rates (PIR) determined 1-year after the intervention or initial assessment in control practices.</p> <p>Childhood series</p>	<p>Childhood series Interv: 69.8% Contrl:66.8%</p>	<p>Childhood series Interv: 71.4% Contrl: 69.6</p>	<p>+1.8 Pct pts (p=0.94)</p>	<p>Follow-up time not reported</p>

Study	Location and Intervention	Population and Sample	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Follow-up time
<p>Author (Year): Siriwadena (2002)</p> <p>Study Period: 2000</p> <p>Design Suitability (Design): Greatest (Group Randomized Controlled Trial)</p> <p>Quality of Execution (# of limitations): Good (0)</p> <p>Outcome Measure: Influenza and Pneumococcal Vaccination</p>	<p>Location: UK, Trent Region</p> <p>Intervention: Educational Outreach visit, Provision of evidence-based information on vaccination + Provider feedback on practice vaccination rates</p> <p>Comparison: Provider feedback on practice vaccination rates only</p>	<p>Setting: Primary care practices</p> <p>Study Population:</p> <ul style="list-style-type: none"> • Practices in west Lincolnshire Primary Care Trust (39) • Trent Focus Collaborative Research Network (50) • N=89 • n=30 Primary Care Practices attending to High risk patients <p>Patient Characteristics:</p> <ul style="list-style-type: none"> • CHD Patients • Diabetes Patients • Splenectomy Patients • >65 Years (Only Pneumococcal) 	<p>Influenza and pneumococcal vaccination rates in high risk groups</p> <p>PPV (for >65 years group):</p>	<p>Control: 25.4%</p>	<p>Intervention: 20.7%</p>	<p>-4.7 pct pts (OR=0.99) 95%CI: 0.96-1.02</p>	<p>Interv period was not clearly stated.</p>

Study	Location and Intervention	Population and Sample	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Follow-up time
<p>Author (Year): Franzini (2007)</p> <p>Study Period: 2006</p> <p>Design Suitability (Design): Greatest (Group Randomized Controlled Trial)</p> <p>Quality of Execution (# of limitations): Fair (2)</p> <p>Outcome Measure: Childhood series</p>	<p>Location: USA, Larger Houston Area</p> <p>Intervention: I- Hour peer-based provider education for each practice</p> <p>Comparison: Usual care</p>	<p>Setting: Private Pediatric and Family Medicine practices</p> <p>Study Population:</p> <ul style="list-style-type: none"> Initial list of 852 of which 189 recruited. Qualifying practices have =>25 children per month <=4 years age. Final participation: 3 intervention and 94 controls. <p>Patient Characteristics:</p> <ul style="list-style-type: none"> Age: Children 12-23 months Children 19-35 months Gender: Not stated Race/Ethnicity: Not stated SES: Not stated 	<p>Assessment of Up To Date pre and post (1 year) intervention based on review of sample of immunization records (50 each from each practice for children 12-23 months).</p>	<p>Pre:</p> <p>Criteria I: I 44 C 47</p> <p>Criteria II I 59 C 58</p>	<p>Post:</p> <p>Criteria I: I 45 C 44</p> <p>Criteria II I 60 C 55</p>	<p>Criteria I 4pct pts (CI: -2%-10%)</p> <p>Criteria II 4 Pct pts (CI: -1%-9%)</p>	<p>1 Year Interv period</p>

Study	Location and Intervention	Population and Sample	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Follow-up time						
<p>Author (Year): Boom (2010)</p> <p>Study Period: 2003-2005</p> <p>Design Suitability (Design): Greatest (Group randomized trial)</p> <p>Quality of Execution (# of limitations): Good (1)</p> <p>Outcome Measure: Childhood Series</p>	<p>Location: USA, Greater Houston area, TX and surrounding counties</p> <p>Provider Education: peer education sessions using Raising Immunizations Thru Education (RITE) program</p> <p>Comparison: Usual Care</p>	<p>Setting: Pediatric and family medicine practices</p> <p>Study Population:</p> <ul style="list-style-type: none"> • Children • 12-23 months • participate in VFC program <p>(Provider sites)</p> <table border="0"> <tr> <td><u>Group</u></td> <td><u>N</u></td> </tr> <tr> <td>Interv</td> <td>61</td> </tr> <tr> <td>Contrl</td> <td>62</td> </tr> </table>	<u>Group</u>	<u>N</u>	Interv	61	Contrl	62	<p>Immunization Status (19-23 months of age)</p>	<p>Childhood series Interv: 59% Contrl:58%</p>	<p>Childhood series Interv: 60% Contrl: 55%</p>	<p>+4 pct pts (nonsig)</p>	<p>1 year</p>
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