## Vaccination Programs: Community-Wide Education When Used Alone

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

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year): Holzman 2005  Study Period: Fall 1999  Design Suitability (Design): Greatest (Other design with concurrent comparison)  Quality of Execution (# of Limitations):	Location: USA; Montana (Billings, Great Falls)  Intervention: Two before-after arms: a) Billings Montana Mass media (television and newspaper advertisements) + small media distribution + mailed reminder letters to a sample of Medicare enrollees without a record of PPV receipt	Setting: Two selected study communities (cities)  Study Population: Telephone survey participants (seniors and other persons at risk)  Participants (participation rate) Group N pre Npost Billings 297(21%) 300(23%)  GrtFalls 300(23%) 300(22%)	Proportion of survey respondents self-reporting receipt of PPV  Group difference Study also examined	Billings 28% Great Falls 29%	34%	+6 pct pts [95% CI: -1, 13]  +6 pct pts [95% CI: -1, 13]  +0 pct points [95% CI: - 7.6, +7.6]  PPV awarenes Billings vs GF OR 1.1 [95% CI	1 month
Fair (3)  Outcome Measure: Pneumococcal vaccine (PPV)  Note: Comparison community received a CWE intervention	b) Great Falls Small media distribution + mailed reminder letters to a sample of Medicare enrollees without record of PPV receipt  Comparison: Mass media + small media compared to small media		differences in awareness of pneumococcal immunization			0.8,1.4]	

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year): Luthi 2002  Study Period: 2000-2001	Location: Switzerland; Canton of Vaud  Intervention: Community mobilization	Setting: Selected community  Study population: Mail survey of a random sample of persons 65 years or older	Proportion of survey respondents self-reporting influenza	<u>Pre</u> 58.0% (of 2772) N=1608	Post 58.4% (of 2925) N=1708	+0.4 pct pts [95%CI:-2.2, +3.0] p=0.757	10 months
Design Suitability (Design):	+ Mass media (television) + small media distribution +	living in Vaud (population 96,657)	immunization				
Least (Before-after)	informational meetings for seniors+ provider education meetings	Survey         N         (resp rate)           Pre         2933         (76%)           Post         3098         (81%)	Study examined campaign awareness			52.7% knew about the program	
Quality of Execution (# of Limitations): Fair (3)	<b>Comparison:</b> Before-after						
Outcome Measure: Influenza vaccination							

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year): McPhee 2003  Study Period: 1998-2000  Design Suitability (Design): Greatest (Group nonrandomized trial)	Location: USA: Houston and Dallas TX, compared to Washington DC  Intervention: Dallas Community mobilization (coalition with neighborhood and community activities and events) + small	Setting: Vietnamese- American communities  Telephone survey participants (parents) in study communities  Survey All communities  Pre 1508 (93%) of 1624  Post 1547 (92.5%) of 1673  Record retrieval (child) among survey participants (parent or	Proportion of children with parent or provider record verified completion of 3 dose vaccination series for hepatitis B	Dallas 82 (26.6%) of 307	<u>Dallas</u> 87 (38.8%) of 225	Adjusted change Dallas vs D.C.  + 12.2 pct pts [95%CI: +4.6, +28.2] p=0.01 OR 2.15 [95%CI 1.2,3.9]	Dallas 3 years
Quality of Execution (# of Limitations): Fair (3)  Outcome Measure: Hepatitis B series	media + provider education  Houston Mass media (television, radio, newspapers, billboards) + small media  Comparison: Washington area Usual care (no community- wide education)	provider)  Overall Pre 783 (52%) of 1508 Post 784 (51%) of 1547  Children with record Site Pre Post Dallas 307 225 Houston 233 315 D.C. 243 244	Multiple logistic regression analyses for the odds of receipt of 3 dose series by location (compared to D.C.)	Houston 66 (28.5%) out of 233 D.C. 92 (37.8%) out of 243	Houston 124 (39.4%)of 315 D.C. 92 (37.8%) out of 243	Houston vs D.C. +10.9 pct pts [95%CI: +4.3, +26.1] p=0.01 OR 3.02 [95%CI 1.6,5.6]	Houston 2 years

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year): Shenson 2001 Study Period:	Location: USA: Dutchess County, New York	<b>Study population:</b> Medicare recipients (65 yrs or older) in Dutchess County, N=27,981	Proportion of Medicare clients with claims data for PPV receipt	1996	1997		1 year
Design Suitability (Design): Greatest	Intervention: Community mobilization (coalition with community and health system activities) +	Targeted: Clients in 17 zip code region of Dutchess County, N= N=7961 with 6310 at analysis	Targeted clients with claims	20.4% 1312 of 6432	32.2% 2032 of 6310	+3.2 pct pts [95%CI 0.9, 5.5]	
(Other Design with Concurrent Comparison)	small media (informational letter) + mass media (radio, local TV, newspapers)	Comparison: Clients in 15 zip code region (rest of Dutchess County), N=20,771	Comparison clients with claims	18.1% 3817 of 21089	26.7% 5546 of 20771		
Quality of Execution (# of Limitations): Fair (4)	+ Enhanced access (provision of PPV at flu clinic)						
Outcome Measure: Pneumococcal vaccine (PPV)	Comparison: Enhanced access (provision of PPV at flu clinics)						

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year):	Location: Finland:	Sample:	Number of			Narrative	Interv
Paunio 1991	nation-wide	Children aged birth through 11 years in Finland	children who received MMR			summary	period was 1
Study Period:		N=138,861 at baseline with	vaccination for			Timing of	week
1982-1986	Intervention:	121,324 (87.4%) already	the first time			change in	
	Mass media campaign	vaccinated				numbers of 6	
<b>Design Suitability</b>	(1 week period of		14-18 month		Not	year old	
(Design):	television and radio	Interventions implemented in	olds	(89.3%)	reported	children	
Moderate	programs and	the third year of a national			(described	vaccinated	
(Interrupted Time	information sent to	vaccination program (further			as no	with the onset	
Series)	local press)	confounded by a polio outbreak and vaccination			effect)	of the mass media	
Quality of	Note: Mass media	effort in 1985)	6 year olds		Not	campaign	
Execution	campaign was followed	-		(83.9%)	reported	(figures 1, 2,	
(# of Limitations):	by provider reminder				(described	and 3)	
Fair (4)	and client reminder				as	-	
	campaigns (not				increasing		
<b>Outcome Measure:</b>	examined here)				vaccination		
MMR					s p<0.05		
	Comparison: Before-				in media		
	after				period)		

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year): Wallace 2008 Study Period:	Location: Australia: New South Wales Intervention:	Setting: North Coast area of New South Wales Campaign targeted North	Change in proportion of all PPV dispatched to immunization	June-Sept 2005 Comparison	June-Sept 2006 Interv	Narrative summary Timing of	1 year
2005-2006	Mass media campaign (television ads over 7	Coast residents over 65 years of age and (a second ad)	providers in study regions	-28%	+33%	change in PPV orders	
Design Suitability	week period May-July	Aboriginal and Torres Strait				coincided with	
( <b>Design</b> ): Moderate (Retrospective	2006) + reduced out of pocket costs (free)	Islanders over 50 years of age.	Note: vaccines ordered (proxy) for vaccinations			media campaign (figure 1)	
cohort)	<b>Comparison:</b> Reduced out of pocket costs	Comparison area: Retrospective comparisons	administered to clients who were				
Quality of Execution	(free)	within target region and with the non-targeted regions of	not immunized in first year of the				
(# of Limitations): Fair (4)	Note: Study during the second year of a two year campaign in	New South Wales	national campaign				
Outcome Measure: Pneumococcal vaccine (PPV)	Australia						

Study	Location and Intervention	Population and Sample	Effect Measure	Reported Baseline	Reported Effect	Value use in Summary [95%CI]	Follow- up Time
Author (Year): Yoo 2010	<b>Location:</b> USA; Nationwide	Study Population:  • nationally representative	Annual receipt of influenza vaccine			A positive association	N/A
Study Period: 1999-2001	Intervention: Mass media coverage	sample     community dwelling     Medicare elderly population     aged 65 or older				was found between flu- related media	
Design Suitability (Design):	on flu-related topics using various media channels	<ul><li>aged 65 or older</li><li>continuously enrolled in Medicare Part B from</li></ul>				reports and influenza vaccination	
Least (Cross- sectional)	Included:  • a wire service news agency	September 1 to December 31, including those who were alive on September 1				rates in the weeks following the	
Quality of Execution (# of Limitations):	<ul><li>nationwide newspaper</li><li>four television</li></ul>	but died between Sept 2 and Dec 31				reports in a nationally representativ	
Fair (2)	networks	<b>Sample Size:</b> N= 7208, 7071, 7136 for 1999-2001				e population of elderly	
Outcome Measure: Influenza – older adults		respectively				individuals	