

# Seasonal Influenza Vaccinations Using Interventions with On-Site, Reduced Cost, Actively Promoted Vaccinations - non-Healthcare Workers

## Summary Evidence Table - Economic Review

Study Monetary Conversions	Location Population Time Horizon	Intervention Comparison	Effect Size	Program Costs	Economic Benefits	Economic Summary Measure
<p><b>Author (Year):</b> Dille 1999</p> <p><b>Design:</b> Case-control</p> <p><b>Economic Analysis:</b> Cost-Benefit</p> <p><b>Conversion:</b> Base year is 1994. Reported in U.S dollars.</p>	<p><b>Location:</b> Richland, Washington</p> <p><b>Setting:</b> Employer is Hanford Environmental Foundation, Contractor to Department of Energy and various firms working for DOE.</p> <p><b>Population:</b> Approximately 20,000 employees. Male – 60% Age – 40 to 49 Engineer or scientist – 49%</p> <p><b>Study Period:</b> October 1994 - May 1995. The 1994-95 flu season</p>	<p>Comprehensive 4 week multi-site vaccination program staffed by occupational nurses with standing orders, and with a campaign advertised through plant newsletters, e-mail, and posters.</p> <p><b>Comparison:</b> No comparison group.</p>	<p>Campaign increased coverage from 1,800 (11%) to 6,339 (35%).</p> <p>ILI rate was 59 per 100 for vaccinated compared to 78 per 100 for the unvaccinated.</p> <p>All effects self-reported from survey questionnaire.</p>	<p>Total program cost (per 100 workers) \$1,921</p> <p>Where, Time to vaccinate was \$921. Vaccination cost was \$1,000</p> <p>Includes vaccine price, time to vaccinate (30 min), and administration costs.</p>	<p><b>Healthcare cost averted per 100 Workers</b></p> <p>Doctor Visits Avoided \$530 Hospitalizations Avoided \$4,600 Antibiotics Avoided \$442 Total healthcare savings \$5,572</p> <p><b>Productivity Gains per 100 Workers</b></p> <p>Work absences avoided \$4,126</p>	<p><b>Cost and Benefit Per 100 workers</b></p> <p>Healthcare savings and productivity gains \$9,698 Cost of vaccinations and program \$1,921 Net benefit \$78 per worker</p> <p>(Base wage from average company wages for 1994-95. Physician visit costs from local claims data and hospital costs from State hospitals data.)</p> <p><b>Notes</b> Cost of campaign not included in program cost Self-reported absences, ILI, and utilization.</p>