Translating evidence into action: Sharing economic outcomes with employers to impact vaccination policies and practices

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Background

- Worksite Influenza Vaccination Study (WIVS; 2010-2011)
- Multisite, controlled study conducted to evaluate the impact of customized, evidence-based interventions on vaccination rates among industrial employees and dependents
- Baseline assessment
 Administrative data from three factories
- Employee survey (N=1,000)
- Customized, site-specific interventions
- Educational programs
- Provider recommendationsImproved vaccine access
- = Family engagement
- Outcome assessment
 Administrative data
- Employee survey (N=1,260)
- Claims data (N=13,520)

Goals & Methods

- Researchers met with corporate executives to:
- ► Share WIVS findings
- ► Learn about influenza vaccination programs
- ► Encourage evidence-based expansion of vaccination programs
- Gain insights about leveraging study findings to increase vaccination rates
- Individual meetings with 18 corporations:
- ► Large employers (n = 10)
- ► Benefits consultants and claims administrators (n = 4)
- ► Wellness program vendors (n = 4)

Results

- All corporations had health programs overseen by highly-educated professionals:
- MDs or PhDs
- ► Usually with MPH or MBA degrees
- · All large employers had:
- ▶ Onsite clinics that provide occupational health and wellness services (Table 1)
- ► Free vaccine programs for covered employees
- Executives reported:
- Program goals not formally established
- Educational programs were main strategy to encourage vaccination
- ► Vendors
- Carry out mass vaccination at worksite
- Are not held accountable for outcomes
- ▶ Vaccination rates are low (Table 1) and decreasing

"You've got data that back up what we've seen.
This is confirmation that driving the workplace option is a very strategic move for employers."

Wellness program director

"If you get the worker feeling that they need to get vaccinated, that means they'll get their family vaccinated." — Large employer

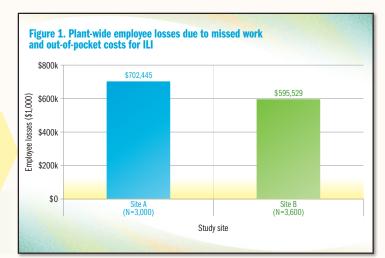
Table 1. Details about large employers that participated

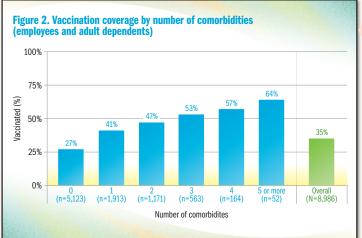
Company	Industry/type of business	Number of employees*	Onsite medical clinic	Free vaccine for covered employees	Vaccination rates (2011)
Α	Science and technology	50,000	Yes	Yes	35%-40%
В	Automotive	160,000	Yes	Yes	32%
С	Food and beverage	30,000	Yes	Yes	28%
D	Automotive	70,000	Yes	Yes	NA
E	Medical and consumer products	120,000	Yes	Yes	31%-33%
F	Aerospace and defense	120,000	Yes (most sites)	Yes	60%-70%
G	Trucks and engines	60,000	Yes	Yes	70%-84% in USA 95% Mexico
Н	Insurance	20,000	Yes	Yes	20%-22%
I	Retail	350,000	Yes	Yes**	29%
J	Insurance and human resources	60,000	Yes	Yes	NA

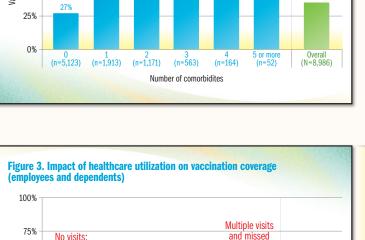
*Number of employees rounded to nearest 10,000 **Non-covered employees can get flu shot for \$10.

Participant interest in WIVS data:

- 1. Economic impact of influenza-like illness (ILI):
- a. Absenteeism (31%)
- b. Presenteeism (82%)
- c. Healthcare utilization (30%)
- d. Lost wages and out-of-pocket expenses (Figure 1)
- 2. Failure of educational programs to increase vaccination rates
- 3. Low vaccination rates for persons with multiple:
- a. Comorbidities (Figure 2)
- b. Healthcare visits (Figure 3)
- 4. Strong relationship between employee and family vaccination status (Figure 4)
- a. Dependents of vaccinated employees significantly more likely to be vaccinated
- b. Relationship strongest in site that engaged employees and families (Site B)
- c. Trend also seen in sites that did not offer vaccine to families (Site A and C) $\,$





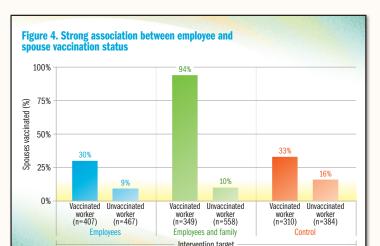


no vaccination

50% -

25%

opportunities



Number of medical visits

(Inpatient, outpatient, and ER visits September 1 - March 31)

"This is simple stuff. We need to stop burying people who don't need to die because they weren't immunized." — wellness program director

Outcomes

- Employers and wellness companies intend to change policies for health risk appraisals (HRAs):
 - Include messaging about influenza vaccination, emphasizing family
- ► New standards to include recommendations about influenza vaccination
- Executives indicated WIVS data would change practices:
 - Inclusion of family in messaging
 - ► Vaccination at company-sponsored, family events
 - ► Mobile carts to bring vaccine to workers
- Requests for copies of WIVS data to share with others:
- ► Medical leaders on advisory boards
- ► Clients of benefits consultants

Conclusions

Employers, benefits managers, and wellness program vendors want to prevent influenza,

largely due to economic factors

- Evidence impacting program policies and practices
- Effect of ILI on productivity and healthcare costs
- Successful ways to engage covered population:
 - Convenient access to free vaccine
- Family engagement
- Customized cues to action

Disclosures and Acknowledgements

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Reference

 Ofstead CL, Sherman BW, Wetzler HP, et al. Effectiveness of worksite interventions to increase influenza vaccination rates among employees and families. J Occup Environ Med. Feb 2013;55(2):156-163.



