

Increasing Access to Vaccines in the Uninsured Population

BACKGROUND

Diseases that are preventable by vaccines have substantial direct health care costs as well as indirect



OBJECTIVE

Evaluate if through rapid cycle quality improvement the health disparity between uninsured and insured adults can be erased for high risk and population based vaccines.





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RESULTS

Refer to outside clinics County Public Health administered vaccines quarterly County surrogate HIE databases identified









Post-Intervention Tetanus Deficient by Visit Type Both 28% N=21







	Baseline N= 2,326	Deficient N=21
Gender:		
Male	38%	23%
*Female	62%	76%
Visit Type:		
Primary Care Only	43%	38%
Specialty Only	34%	33%
*DMR Screening	18%	33%
Both	23%	28%
Ethnicity/Race:		
*White	11%	23%
Black	6%	9% †Jamaica visa
Hispanic	81%	61%
Non-Hispanic	2%	4%
Language Spoken:		
Spanish	69%	62%
English	31%	38%
	*P-value < 0.05, **P-value > 0.05	

Uninsured patient's vaccination rates can equal those of insured. In this study the vaccination rates for the uninsured were statistically significantly higher than the national insured average for both population based vaccines: Tetanus 95% vs 63.4% (z-score: 71.6, p-value <0.00001) and high risk individuals: Diabetes: Flu 97% vs 59.7% (z score: 7.7 p-value <0.00001), Hepatitis B 99% vs 25.8% (z score: 22.6, p-value <0.00001), Pneumococcal 94% vs 24.5% (z score: 21, p-value <0.00001).



There are a number of patient, physician and healthcare oriented barriers to people receiving vaccines. This study demonstrated that with a standardized process, well trained staff and an opt-out culture from check-in to check-out vaccination rates can increase for both uninsured and insured populations to over 90%. By use of a rapid cycle continuous quality improvement model the clinic successfully overcame all barriers and identified the largest gains were made by having:

- Reviewing state databases for previous immunization status
- Standing orders to avoid needing provider initiation
- Opt-out vaccines Identifying a constant supply for vaccines
- Intermittent vaccine clinics are effective
- Integrating vaccines into the day to day operations is more effective

The monetary cost of quality is low. A 2018 study quantified a per patient price of \$1.78 for an office to implement and maintain a practice wide immunization program. The World Health Organization estimates the economic and social impact of vaccinations in the US to be worth \$600 billion from 2011-2020. The return on investment is 930.2%. No patient identified barriers were significant during this study which suggests if clinics are willing to modify their processes there is no reason the results of this study cannot be duplicated in the uninsured and insured communities.







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CONCLUSION

1. MEASLES

- 2. WHOOPING COUGH (PERTUSSIS)
- 3. THE FLU
- **4. POLIO**
- 5. PNEUMOCOCCAL DISEASE
- 6. MENINGOCOCCAL DISEASE
- 7. HEPATITIS B
- 8. HIB (HAEMOPHILUS INFLUENZAE TYPE B)
- 9. MUMPS
- **10. TETANUS**

ources: CDC. National Institute of Allergy and Infectious Diseases. National Foundation for Infectious Diseases, Vaccines.gov, World Health Organizatio

DISCUSSION

Easily accessible patient registry/report

PAVING THE ROAD TO HEALTH EQUITY

Health Equity is when everyone has the opportunity to be as healthy as possible

> Measuremen ata practices to supp the advancement of health equity

Policy laws, regulations, and rules to improve opulation health

Infrastructure Organizational structures and functions that support health equity
