

Text Message Reminder-Recall to Increase HPV immunization Uptake in Young HIV-1 Infected Patients

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6/5/2015

2015 National Summit

ON HCV AND HIV DIAGNOSIS, PREVENTION AND ACCESS TO CARE



UNIVERSITY OF UTAH
SCHOOL OF MEDICINE

Background and Objectives

- Teen and young adults are the most avid texters
- Text message reminders have increased influenza, childhood and adolescent vaccine uptake
- HIV-infected vs. HIV-negative patients
 - Higher HPV rates
 - Worse HPV disease progression, increased risk of CIN, AIN and cancer
- No studies have been published to date using text message reminder-recall to increase immunization uptake in HIV-positive teens and young adults



Methods

- Prospective cohort study of HIV-1 infected patients(pts) age 16-26 followed over one academic year
- Of 11 clinic physicians, only one used text message reminders exclusively
- Text messages were sent monthly to those patients who were due for any HPV immunizations
- All statistical analyses were conducted with SPSS



Results

- 255 HIV-1 pts age 16-26 were seen from Jul 1, 2013-Jun 30, 2014
- Intervention arm: 28 pts
- Control arm: 212 pts
- Died or moved: 15 pts

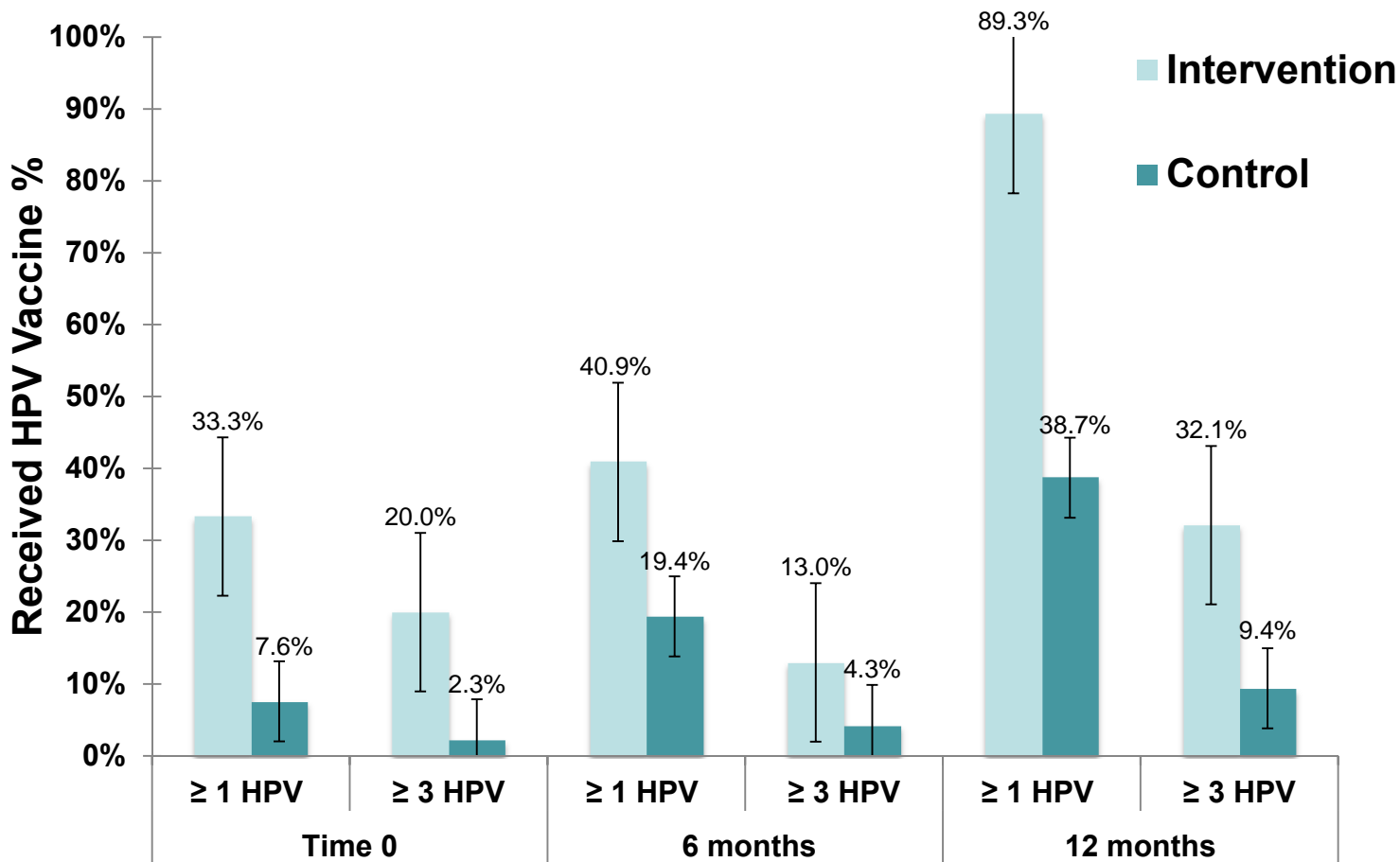


Demographics

	Intervention, No.(%) or Mean \pm SD	Control, No.(%) or Mean \pm SD	<i>P</i>
Age, y	22.8 \pm 2.6	23.5 \pm 1.9	<0.05
Sex			0.61
Female	7 (25)	41 (19)	
Male	21 (75)	171 (81)	
Race			0.06
Black	23 (82)	128 (60)	
White	5 (18)	69 (33)	
Other	0	15 (7)	
Insurance			0.427
Uninsured	17 (61)	103 (49)	
Medicaid	7 (25)	60 (28)	
Private	4 (14)	49 (23)	



Percentage of patients receiving HPV vaccination at time 0, 6, 12 months



Results

- Multivariable analyses at 6 and 12 months found only intervention status had an effect on receipt of immunization
 - Analyses controlled for impact of age, race/ethnicity, gender, and insurance status
 - 6 month AOR=5.1, 95%CI=2.0-13
 - 12 month AOR=12.6, 95%CI=3.6-42.9



Conclusions

- Text message reminder-recalls improved HPV vaccination uptake in this urban, low-income population
- Text reminder-recalls should be considered as a viable option in the HIV setting to improve vaccination uptake, including other aspects of care
- Additionally, the EMR is ubiquitous, and some are able to link with text messaging platforms, allowing providers to automatically identify and notify pts due or past due immunizations

