Population-based estimates of PrEP access-to-need in Oregon

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INTRODUCTION

- Pre-exposure prophylaxis is an important HIV prevention modality.
- Estimates of PrEP access are critical to guide public health efforts to increase PrEP use.
- Prior PrEP access metrics use HIV diagnoses as the metric of need, but this does not capture those with STI or people who inject drugs (PWID) who might benefit from PrEP.
- Public health departments may be able to combine state-level claims data with surveillance data to generate such estimates.

METHODS

1. Using the Oregon All Payers All Claims (APAC) administrative dataset, we determined the number of unique individuals >16 years old with a new Truvada script of >30 days for 2012 to 2016.
2. APAC covers 87-98% of Oregon's population, but excludes federal insurance programs.
3. For 2016, we calculated the number of **PrEP starts** and the number of **PrEP users**, defined as those with a Truvada script in each of the four quarters of 2016 (a measure of long-term adherence). Of note, **28% of those who started PrEP in 2012-2015 were PrEP users in 2016**.
4. We then calculated 6 metrics of PrEP access-to-need for 2016:

PrEP access metrics, per 100K pop	
PrEP starts (17.2)	PrEP users (9.9)

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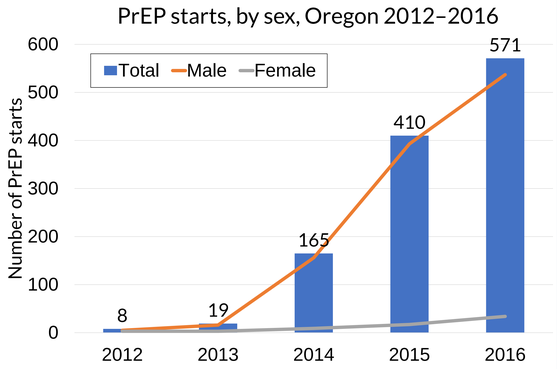
PrEP need metrics, per 100K pop		
HIV diagnoses (6.7)	Early syphilis and gonorrhea diagnoses (136.0)	HCV diagnoses among those aged 16-30 years (109.1)

RESULTS



State **claims data** can be combined with HIV, STI, and HCV **surveillance data** to create population-based **estimates of PrEP access-to-need.**

PrEP access-to-need metrics by demographic characteristics, APAC, Oregon, 2016.

	Starts per HIV dx	Starts per STI dx	Starts per HCV dx	Users per HIV dx	Users per STI dx	Users per HCV dx
Overall	2.6	0.13	0.16	1.5	0.07	0.09
Sex/gender						
Men	2.7	0.18	0.28	1.6	0.11	0.17
Women	1.4	0.02	0.02	0.4	0.01	0.01
Age						
16-24	2.1	0.05		0.7	0.02	
25-34	3.4	0.14		1.6	0.06	
35-44	2.3	0.17		1.6	0.11	
45-54	2.2	0.23		1.8	0.19	
55+	1.8	0.25		1.3	0.18	
Race/ethnicity*						
Hispanic, Latino/a/x, any race	0.3	0.02	0.12	0.1	0.01	0.03
White	0.8	0.04	0.05	0.6	0.03	0.04
Black/African American	0.7	0.02	0.27	0.3	0.01	0.11
American Indian/Alaska Native	0.5	0.03	0.05	0	0	0
Asian	0.6	0.06	0.16	0.2	0.02	0.06
Native Hawaiian/Pacific Islander	0	0	0	0	0	0
Region						
Portland metro area	3.5	0.17	0.33	2.1	0.10	0.19
Balance of state	1.2	0.06	0.05	0.6	0.03	0.03

*Based on 27% of population with complete race/ethnicity data

Access-to-need metrics based on **PrEP users** (a measure of longer-term adherence), **STI diagnoses** (a measure of HIV acquisition risk), and **HCV diagnoses among those less than 30 years of age** (a measure of need among people who inject drugs) may provide a **more complete assessment** of PrEP access-to-need than those based on PrEP starts and HIV diagnoses.

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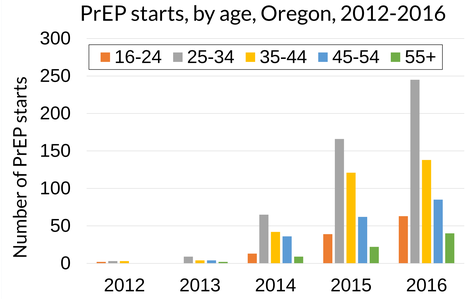

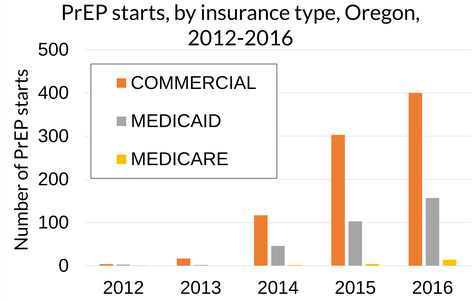

PrEP access-to-need metrics by county, Oregon , 2016

