APLA Evaluating Chlamydial and Gonococcal Positivity at a Health and Wellness Center in South Los Angeles **AIDS Project** Los Angeles

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Background

- Chlamydia and gonorrhea respectively affect 0.5% and 0.1% of residents in Los Angeles County (LAC).¹
- Incidences of chlamydia and gonorrhea in LAC have increased by 10% and 47%, respectively, from 2009-2013.¹
- The prevalence of chlamydia is six times higher among African-Americans and twice as high among Latinos than among Caucasians.¹
- The prevalence of gonorrhea is five times higher among African-Americans than among Latinos or Caucasians.¹
- The prevalence of gonorrhea is four times higher among men who have sex with men (MSM) than among heterosexual males and females.¹

Objective

In April 2013, AIDS Project Los Angeles (APLA) began offering low-cost/ free screening and treatment for sexually transmitted infections (STIs) in South LA. The new APLA Health & Wellness Center, located in Baldwin Hills, serves a community in which 95% of residents are African-American or Hispanic/Latino.

The objective of this project was to evaluate the trends in chlamydial and gonococcal positivity from clients seen in this community-based health and wellness center.

Methods

- Nucleic acid amplification testing (Roche cobas® 4800 CT/NG Test) was used for Chlamydia trachomatis (CT) and Neisseria gonorrhoeae (NG) detection.
- Positivity was grouped by anatomic site and compared with CT and NG prevalence rates in LAC in 2011.
- Information regarding gender, race/ethnicity, and age was collected.

Results

- Among those that utilized the various STI services at the health and wellness center, 78.6% were male. A majority of the clients were African-American, followed by Latino/Hispanic clients. The median age of those serviced by the clinic was 30 (*Figure 1*).
- Between July 2013-March 2014, 809 CT and 1008 NG tests were administered using specimens from different anatomic sites from 694 clients. The positivity rates of CT and NG were 5.7% (39/687) and 4.1% (28/691), respectively. Compared with reported prevalence rates in LAC in 2011, the screened population's CT and NG positivity rates were 11 and 41 times higher, respectively (Figure 2).
- Chlamydial tests were positive in 28 of 676 (4.1%) urine specimens, 11 of 107 (10.3%) rectal specimens, and 2 of 26 (7.7%) vaginal specimens (*Figure 3A*).
- Gonococcal tests were positive in 17 of 667 (2.5%) urine specimens, 6 of 208 (2.9%) pharyngeal specimens, 10 of 106 (9.4%) rectal specimens, and 0 of 27 vaginal specimens (Figure 3B).
- Negative urine specimens accompanied 9 of 11 positive rectal CT cases, 7 of 10 positive rectal NG cases and 4 of 6 positive pharyngeal NG cases.

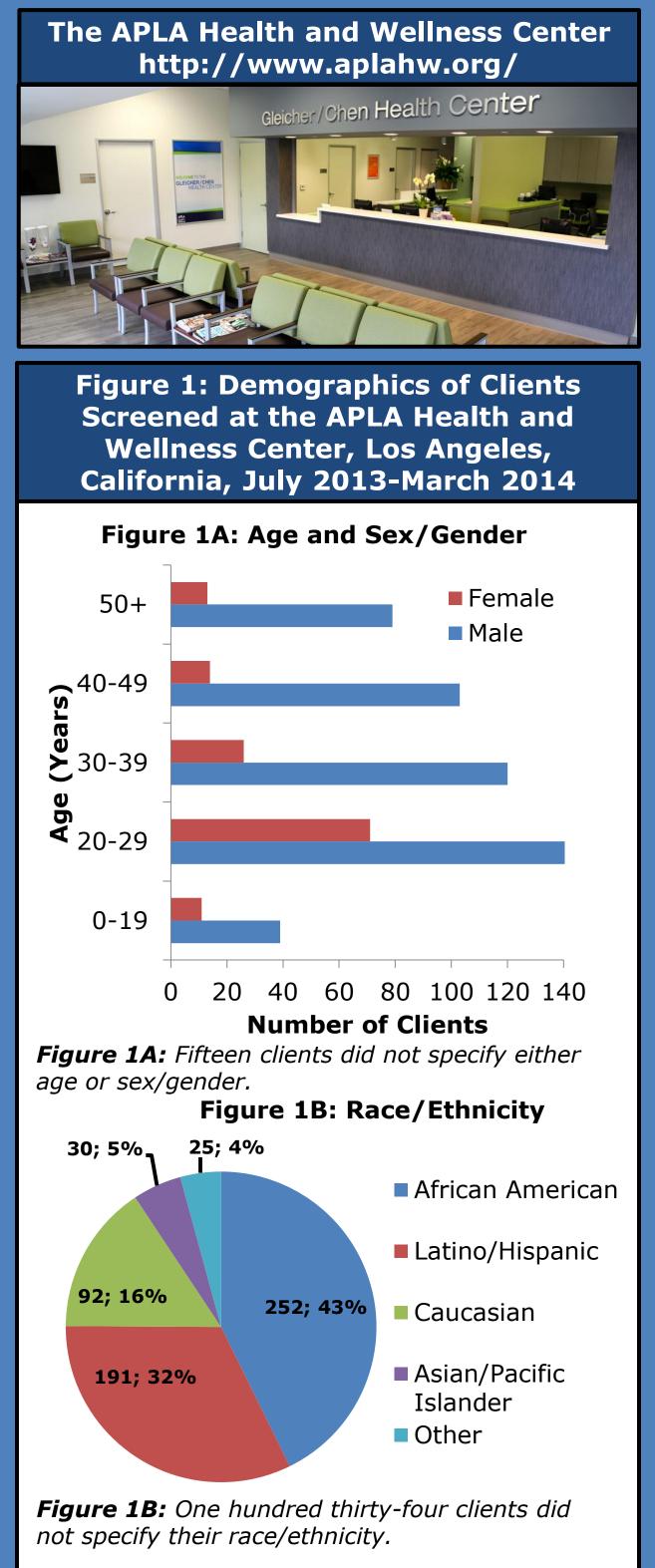
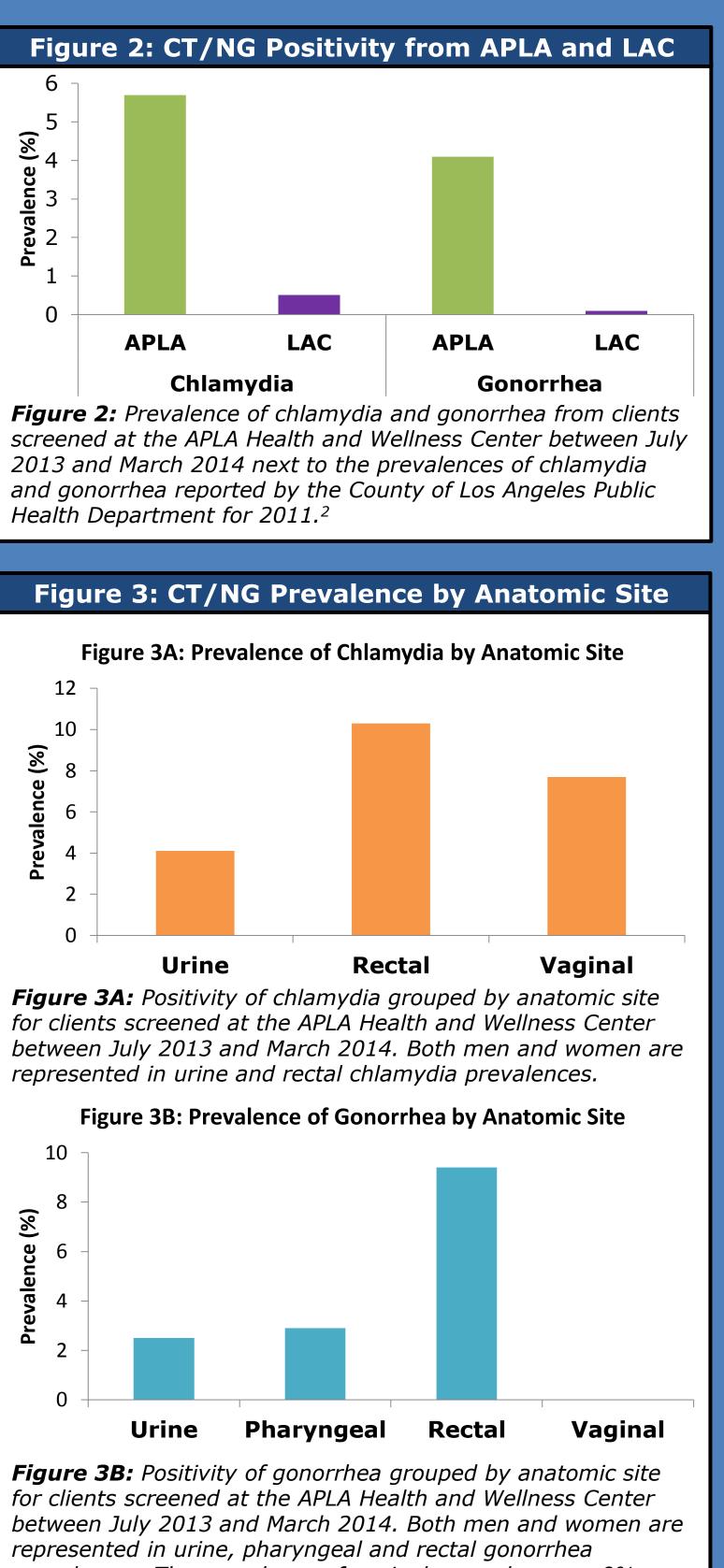
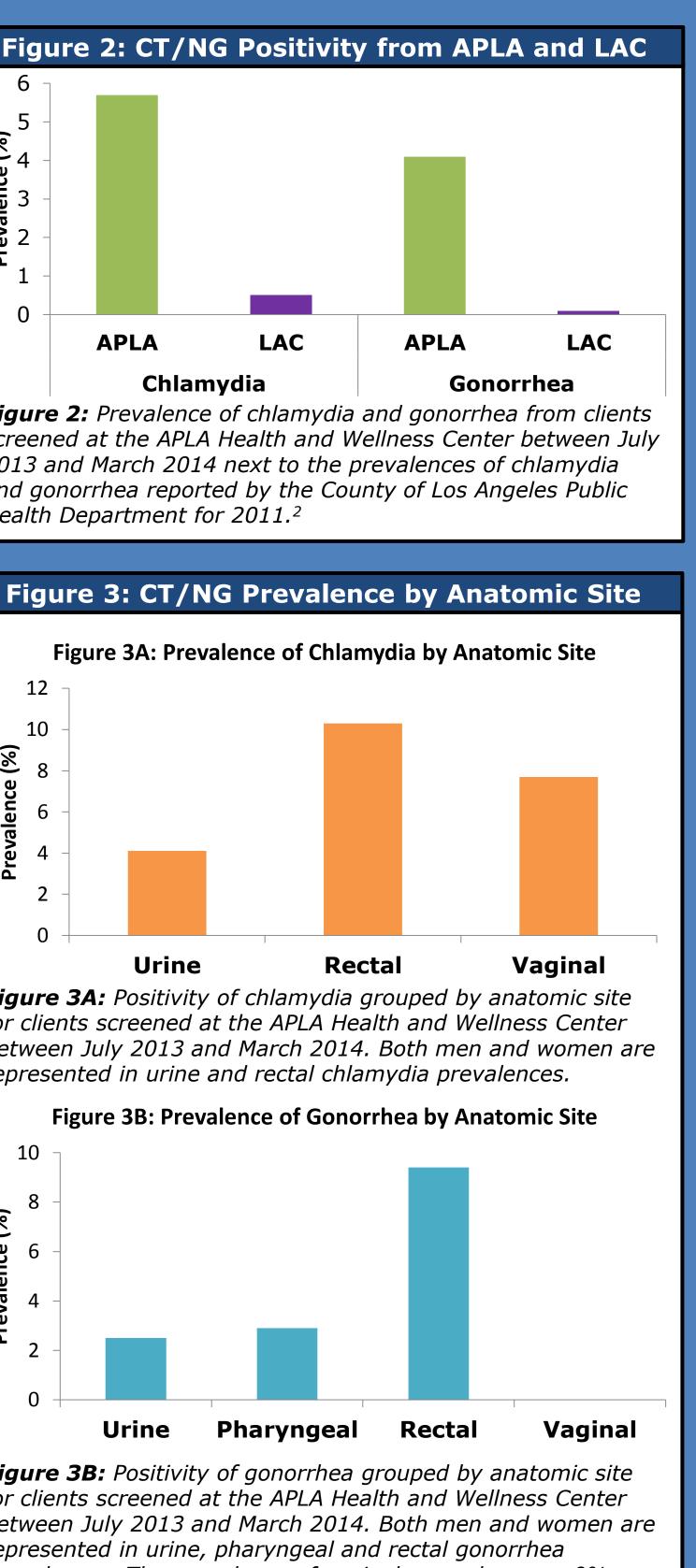
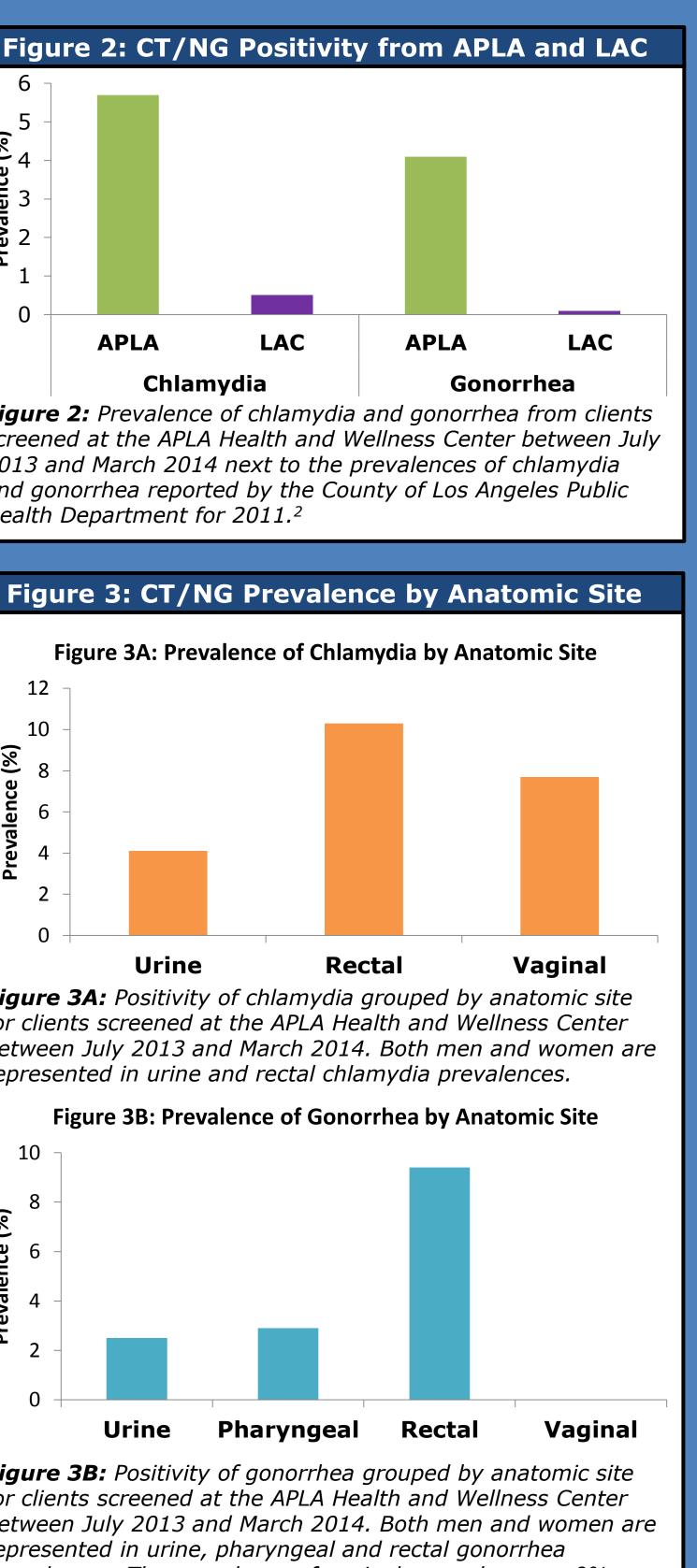


Figure 1: STI screening services for chlamydia, gonorrhea, genital herpes, Trichomonas vaginalis, Hepatitis B and C, syphilis, and HIV.







prevalences. The prevalence of vaginal gonorrhea was 0%.



The APLA Health and Wellness Center http://www.aplahw.org/

Conclusions

- The APLA Health and Wellness center identified 39 persons with CT infections and 28 persons with NG infections from 1817 CT and NG tests over nine months.
- A higher prevalence of positive CT/NG rectal cases compared to other anatomic sites highlights the need to continue rectal CT and NG screening in at-risk populations.
- 23.1% of CT-infected and 35.7% of NGinfected people would have remained undiagnosed based on urine specimens alone, highlighting the importance of screening at multiple anatomic sites.
- Community-based health and wellness centers can be important for identifying CT and NG infections in underserved areas.

References

¹County of Los Angeles Public Health Division of HIV and STD Programs: 2013 Sexually Transmitted Diseases Fact Sheet. http://publichealth.lacounty.gov/dhsp/docs/ST DEpiFactSheet%20March2015.pdf

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