

Characteristics of and Risks for *Chlamydia trachomatis* for Pregnancy-Associated Visits Among Women Aged 15 - 24 Years at Region X Family Planning Clinics, 2003—2006

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Background

- Pregnant women and those presenting for any pregnancy-related visit represent a group uniquely vulnerable to infections with chlamydia (CT)
 - Client risks such as ectopic pregnancy
 - Risks to the developing fetus, such as preterm delivery, infant pneumonia, and neonatal conjunctivitis
- Pregnancy-related visits include women:
 - Requesting a pregnancy test
 - Receiving prenatal care, pregnancy management, or pre/post abortion services
- Limited data exist on epidemiologic trends related to chlamydial infections among these women

Objective

- Identify characteristics of and risk factors for CT positivity among women aged 15 – 24 years who were either pregnant or presenting for any pregnancy-related visit at Region X FP clinics from 2003 through 2006



Methods

- Data set: 30,898 CT test visits
 - 130 FP clinics
 - Women aged 15 – 24 years
 - CY 2003 - 2006
- Lab slip/measures
 - demographics, behavioral risks, clinical signs, test type, test results
- Bivariate analyses: CT positivity by risk factors, crude odds ratios (ORs) calculated
- Multivariable analysis (MVA) used to identify factors independently associated with CT



Results

- Of the 30,898 visits, 92% were pregnant
- 57% aged 20 – 24 years
- 40% racial/ethnic minorities
- 11% had at least one sexual behavior risk—multiple, new or symptomatic sex partner in past 60 days
- 70% nucleic acid amplification test (NAAT)
- 7.0% CT positive
 - 26% among women with a partner known to be infected with CT
 - 19% among those with a symptomatic sex partner in the previous 60 days

Characteristic	Percent	% CT+
Client currently pregnant		
Yes	92	6.9
No	8	7.4
Age		
15 - 17	17	8.8
18 - 19	26	7.5
20 - 24	57	6.2
Race/ethnicity		
NH White	60	6.0
NH Black	40	8.3
Population Density		
Urban	92	7.1
Rural	8	5.9

Characteristic	Percent	% CT+
One or more sexual behavior risks, past 60 days		
No	89	6.6
Yes	10	8.6
Exposed to partner with CT		
No	99	6.9
Yes	1	26.4
Condom used, last sex		
No	90	6.8
Yes	10	8.6
One or more clinical findings		
No	61	5.9
Yes	5	17.0
No exam/data not available	34	7.6

Individual-level risk factors and chlamydia, cont.

Characteristic	Percent	% CT+
Chlamydia test type		
Non-NAAT	30	5.2
NAAT	70	7.7
CT+ test, past year		
No	96	6.7
Yes	4	14.4
Visit Year		
2003	21	7.1
2004	24	7.1
2005	26	7.3
2006	29	6.5



Multivariate findings

Risk factors for CT positivity	Adj. OR
• Younger age	
15 - 17 years	1.39
18 - 19 years	1.25
• Racial/ethnic minority	1.36
• 1+ sexual behavioral risks	1.52
• Partner with CT	3.33
• 1+ clinical findings	2.87
• NAATs AOR	1.33
• CT+, past year	1.77

Conclusion

- CT positivity was high among adolescent and young adult women who are pregnant or presenting for any pregnancy-related visit to Region X FP clinics.
- Risk factors in this group are similar to those among non-pregnant female FP clients aged 15 – 24 years.
- Given the increased risk of sequelae of CT infection among pregnant women and their newborns, testing and counseling services among pregnant clients and those presenting for any pregnancy-related visit to FP clinics should remain a program priority.