CHLAMYDIA

Young, male, and infected: the forgotten victims of chlamydia in primary care

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OBJECTIVES

To identify current levels of male testing for chlamydia and establish levels of knowledge relating to chlamydia infection among practice nurses in primary care in one north Wales local area health group (LHG) as part of a study to improve delivery of sexual health services in primary care.

METHOD

Study design

The questionnaire was designed to establish current levels of male testing and identify knowledge levels of chlamydial infection among practice nurses in primary care; it also aimed to elicit current practice including diagnostic tests being taken for male testing and indications prompting testing. The questionnaire was developed to suit the study and a draft questionnaire was piloted on four health professionals and amended according to feedback obtained.

Data from the questionnaire were summarised using frequency counts and percentages. When presenting the key results, it is important to show the effect that the relatively small sample size of this study may have had on these values. Therefore, 95% confidence intervals have been calculated for the key results.

Semistructured interviews were then undertaken with practice nurses who agreed to be interviewed with the aim of gaining further insight into the beliefs and knowledge base of the practice nurses.

Ethical approval was granted from North East Wales ethics committee (west, central, and east subcommittees). A research and development grant for costs to undertake the study was awarded by North East Wales NHS Trust.

Data collection

Data for the study were collected using a structured anonymous confidential self-completed postal questionnaire. For the purpose of the study, 46 individually addressed questionnaires were sent to all the practice nurses employed at 22 GP practices. Reminder letters were sent out 1 week later and reminder telephone calls made to all non-responders 1 week later. The questionnaires were anonymous.

RESULTS

Responses were obtained from 33/46 (71.7%) practice nurses. The majority, 30 (90.9%), do not examine male genitalia and 18 (54.5%) have never tested male patients for chlamydia infection. 28 (84.8%) practice nurses do not consider contact tracing as part of their role.

Conclusions: Primary care has a pivotal part to play in reducing prevalence of chlamydia. The paucity of male testing for chlamydia and a lack of consistent uniform testing and contact tracing in primary care has implications for the prevalence and long-term consequences of infection. There is scope to greatly increase male testing for chlamydia both for those presenting with signs and symptoms of infection and those asymptomatic. This cannot be achieved without both educational and financial support for practice nurses.

Abbreviations: GUM, genitourinary medicine; LHG, local area health group; NAATs, nucleic acid amplification tests; SDA, strand displacement assay
and confidential, but a request was included in each letter for nurses who would be willing to take part in semistructured interviews as the second part of the study to provide their names and practice contact details. Data from returned questionnaires were analysed using the SPSS statistical package to establish concurring themes.

RESULTS
There was a 71.7% (33/46) response rate, with all 22 GP practices being represented. Seven nurses took part in semistructured interviews.

Responses to questionnaires
Examination of male genitalia was not carried out routinely by 30/33 (90.9%, 95% CI 76.4 to 96.9) practice nurses. Of the 18 nurses who responded to the question all indicated they were not performing urethral swabs for chlamydia on men. Urine SDA for detection of chlamydia had been used by 15/33 (45.5%, 95% CI 29.8 to 62.0) nurses.

In response to the question on when respondents would initiate chlamydia testing on a male patient, the five scenarios elicited consistent responses by one practice nurse 1/33 (3.0% 95% CI 0.5 to 15.3) who always initiated testing (table 1). No responses were obtained from approximately 60% of nurses. The indication that prompted most individuals to initiate chlamydia testing was that the patient’s partner had chlamydia, 11/33 (33.3%). Eleven out of 33 (33.3%) nurses stated that a male GP carried out chlamydia testing in their practice.

Referral of male patients with chlamydia to a GUM clinic was the routine practice of 20/33 (60.6%) nurses. Method of referral varied, 10/33 (30.3%) gave verbal advice only, while 23/33 (69.7%) nurses used two or more methods of referral including verbal, letter, and/or arranged clinic appointment by telephone on the patient’s behalf (table 1).

Contact tracing was not seen as part of the practice nurse’s role in delivering sexual health care by 28 (84.8%) practice nurses, three (9.1%) saw it as part of their role and two (6.1%) left the question blank. A number of nurses commented in the free text that they thought they did not have the time to become involved in contact tracing (box 1). Respondents were asked what advice they give to a patient who has tested positive for chlamydia about recent sexual contacts, of which 29/33 (87.9%) nurses stated they advised that recent sexual contacts should be tested/treated. Twenty-nine contacts, of which 29/33 (87.9%) nurses stated they advised that recent sexual contacts should be tested/treated. Two (6.1%) nurses would also advise contacts to see their GP.

Table 1 Responses to questionnaire

<table>
<thead>
<tr>
<th>In which of the following circumstances would you test male patients for genital chlamydia infection?</th>
<th>Always</th>
<th>Sometimes</th>
<th>Never</th>
<th>No response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aged under 25</td>
<td>1 (3.0%)</td>
<td>5 (15.2%)</td>
<td>6 (18.2%)</td>
<td>21 (63.6%)</td>
</tr>
<tr>
<td>Who complains of dysuria tingling on urination</td>
<td>4 (12.1%)</td>
<td>6 (18.2%)</td>
<td>3 (9.1%)</td>
<td>20 (60.6%)</td>
</tr>
<tr>
<td>Who complains of painful testicles</td>
<td>4 (12.1%)</td>
<td>3 (9.1%)</td>
<td>5 (15.2%)</td>
<td>21 (63.6%)</td>
</tr>
<tr>
<td>Who mentions he is in a new relationship</td>
<td>11 (33.3%)</td>
<td>7 (21.2%)</td>
<td>5 (15.2%)</td>
<td>20 (60.6%)</td>
</tr>
<tr>
<td>Partner has chlamydia</td>
<td>1 (3.0%)</td>
<td>7 (21.2%)</td>
<td>3 (9.1%)</td>
<td>18 (54.5%)</td>
</tr>
<tr>
<td>I never test males for genital chlamydia infection</td>
<td>NA</td>
<td>NA</td>
<td>18 (54.5%)</td>
<td>15 (45.5%)</td>
</tr>
</tbody>
</table>

In your work as a practice nurse do you examine male genitalia?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>No response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Always</td>
<td>1 (3.0%)</td>
<td>30 (90.9%)</td>
<td>2 (6.1%)</td>
</tr>
<tr>
<td>Sometimes</td>
<td>20 (60%)</td>
<td>7 (21.2%)</td>
<td>6 (18.2%)</td>
</tr>
<tr>
<td>Never</td>
<td>1 (3.0%)</td>
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<td>2 (6.1%)</td>
</tr>
</tbody>
</table>

DISCUSSION
This study confirmed that there is a paucity of male chlamydia testing by practice nurses in primary care either opportunistic or on symptomatic males. Thirty (90.9%) practice nurses stated they do not examine male genitalia and 18 (54.5%) stated they never test males for chlamydia. These results mirror that of another study, which found that 67.5% of practice nurses never test males for chlamydia. Failure by nurses to identify the signs and symptoms of chlamydia in males represents lost opportunities to test and has implications for risk of complications developing and the
potential increase in prevalence of infection the longer the infection remains undetected. Their lack of confidence and knowledge on how to do endocervical swabs compounds this issue. It is recommended that primary care should test anyone who presents with signs and symptoms of infection. Testing in low prevalence populations is cost effective and can lead to 50% reduction of long term morbidity. The availability of a urine test is thought to be a way to increase male testing by practice nurses as it offers a non-invasive method of opportunistic testing for infection. Results from the study indicate that those who used the urine test did test males where they had not done so before and all nurses interviewed stated they would test males if the urine test were to be available. Although this would have resource/financial implications initially it is felt this could be offset by savings made from treatment costs having to be provided to treat long term morbidity of infection in females, as using a urine test to screen for chlamydia is cost effective and acceptable to the population. A cost-benefit analysis of screening men for chlamydia using urine testing could provide evidence, which is currently lacking on the effectiveness of testing males in primary care. Results from the two government pilot screening sites have established that opportunistic screening is acceptable to the population with over 70% of people offered testing taking it up and that screening can reach those most at risk in primary care. Yet it would appear from our study that a major barrier to chlamydia testing is the knowledge and skills of healthcare professionals and not population non-acceptance of testing. Research indicates most male partners of females with chlamydia or pelvic inflammatory disease are asymptomatic, untested, and untreated and thus go on to re-infect their female partner, which has both economic and health consequences, a situation that is further exacerbated by no robust form of contact tracing being undertaken in primary care. Results of this study have highlighted that 28 (84.8%) nurses do not consider contact tracing to be part of their role in sexual health provision. The figures are considerably higher when compared to those found in other studies, where 54.2% of practice nurses stated they believed contact tracing was not part of their role. Comments indicate that apart from lack of time to undertake contact tracing, lack of knowledge and training how to approach the issue was a barrier to carrying it out. Contact tracing for many in primary care is a daunting prospect, as partners may not be registered with the practice and to broach such a subject with a patient can be embarrassing for both health professional and patient; however it is economically effective. The study demonstrates that practice nurses are only verbally advising an individual to attend a GUM clinic. These findings concur with a recent study of patients attending a GUM clinic that found 40.5% (39.9% had a sexually transmitted infection) of the patients seen had already been seen in primary care for their problem. It was found that duration of symptoms for those initially seeking treatment in primary care was substantially longer than for patients who attended GUM clinics directly. Facilitation of referral may be addressed by establishing care pathways.

This study, while small, demonstrates the urgent need to support practice nurses to carry out male testing in primary care. Currently, different levels of service and patient care for chlamydia are being provided to male patients within primary care. Practice nurses require sexual health education and support in providing enhanced sexual health services. Development of care pathways, local training courses, and introduction of NAAT urine tests are recommended to improve the situation, and provide male patients with equity of care afforded to female patients. It is recognised that change is not spontaneous, but change is required within primary care in the form of the application of evidence based medicine/care to promote best practice and clinical effectiveness.

**CONTRIBUTORS**

PR carried out the data collection and analysis; PR and OW designed the questionnaire and documented the study.

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**REFERENCES**


**Key messages**

- Increased scope for male testing for chlamydia in primary care
- Availability of chlamydia urine test should be increased
- Partner notification is not seen as practice nurse role
- Significant investment is required for training and educating practice nurses in the field of sexual health
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