Self-collected Extra-genital Gonorrhea and Chlamydia Testing for MSM

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Disclosures

• I have received research support from Hologic (GenProbe)
Epidemiology

• Common
  - Pharyngeal GC: 7.9% (range 1.2 – 19.3)¹
  - Rectal GC: 10.2% (range 5.4 – 21.1)¹
  - Rectal CT: 14.1% (range 11.4 – 19.8) ¹
  - Pharyngeal CT: 2.9%¹

• Asymptomatic
  - 92% of pharyngeal GC² & 84 - 86% of rectal GC²

1. Patton, *CID* 2014 (SsUN data)
Their Importance

• Transmission
  - 30% of symptomatic gonococcal urethritis is attributable to oropharyngeal exposure\(^1\)

• HIV Transmission
  - Potentiate acquisition, even after controlling for sexual behaviors\(^2-4\)

• Treatment differentials
  - Pharyngeal GC\(^5\)
    • Ceftriaxone > Cefixime
  - Rectal CT\(^6\)
    • Doxy >>> Azithromycin

CDC Recommended STD Screening for MSM
The triple dip:

- Syphilis & HIV serology
- Pharyngeal GC
- Urine GC/CT
- Rectal GC/CT

Annually for all sexually active MSM
Every 3-6 months for high-risk MSM
Barriers to Screening

• Patient-related Barriers¹
  - Want frequent, convenient, affordable testing

• Provider-related Barriers¹
  - Knowledge, Time & Comfort with Sexual Hx/Exam

• Systems barriers
  - Testing Costs, insurance issues
  - Lab issues: NAATs not FDA approved

1. Barbee, STD, 2015
Extra-Genital Self-testing Program at Madison Clinic

- Self-referred
- Provider-referred

RN “symptom triage”

Patient Assessment Form
Self-Testing for STIs Patient Assessment

(To be completed by patient)

Congratulations! You are taking a pro-active step in caring for yourself by choosing to test yourself for bacterial sexually transmitted infections today. Please answer the following questions and complete the appropriate STI test(s) based on your answers. Instructions on how-to perform self-testing are in the designated self-testing clinic restroom.

1. Do you give oral sex (that is, put your sex partners penis in your mouth)?
   
   [ ] Yes  [ ] No

If you answered yes, please swab your throat. Follow the instructions on the poster.

2. Do you top (where you place your penis in your sex partners rectum)?
   
   [ ] Yes  [ ] No

3. Do you receive oral sex (place your penis in your sex partner’s mouth)?
   
   [ ] Yes  [ ] No

If you answered yes to either 2 or 3 above, please provide a urine sample in the green topped cup.

4. Do you bottom (where you receive your sex partners penis in your rectum)?
   
   [ ] Yes  [ ] No

If you answered yes, please swab your rectum. Follow the instructions on the poster.

************************************************************************************
Extra-genital Self-testing Program at Madison Clinic

TEST YOURSELF
The Visual Guide for a Self-collected Throat Swab
1. Wash your hands with soap and water.
2. Remove the transport tube and collection swab from packaging.
3. Label the transport tube with your Patient label.
4. Label the transport tube with the Throat label.
5. Open the package containing the collection swab.
6. Hold the collection swab far enough from the tip.
7. Say AHH... and reach the collection swab into your mouth to gently touch your throat.
8. Gently rub the swab tip on your throat side to side up and down at least 5 times.
9. Tighten the cap from the transport tube.
10. Place the collection swab into the transport tube, snapping it at dashed line.
11. Put the cap back on the transport tube, snapping it at dashed line.
12. Put the transport tube into the biohazard bag.
13. Wash your hands with soap and water.

TEST YOURSELF
The Visual Guide for a Self-collected Rectal Swab
1. Wash your hands with soap and water.
2. Remove the transport tube and collection swab from packaging.
3. Label the transport tube with your Patient label.
4. Label the transport tube with the Rectal label.
5. Open the package containing the collection swab.
6. Firmly hold the collection swab about 1 inch into the rectum and twist the swab in a circle at least 5 times.
7. Get into a comfortable position that allows you access to your anus. Putting your foot on the step stool may help.
8. Gently insert the swab 1 inch into the rectum and twist the swab in a circle at least 5 times.
9. Unscrew the cap from the transport tube.
10. Place the collection swab into the transport tube, snapping it at dashed line.
11. Put the cap back on the transport tube, snapping it at dashed line.
12. Put the transport tube into the biohazard bag.
13. Wash your hands with soap and water.
Comparison of Testing Coverage among MSM attending at least 1 primary care or nurse visit: baseline year (2012) vs. first year of STI self-testing program (April 1, 2013 - March 31, 2014)

<table>
<thead>
<tr>
<th>Site</th>
<th>Baseline N= 1520</th>
<th>Intervention N= 1510</th>
<th>% change</th>
<th>p-value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any site GC/CT</td>
<td>670 (44.1%)</td>
<td>770 (51.0%)</td>
<td>+15.0%</td>
<td>0.001</td>
</tr>
<tr>
<td>Pharyngeal GC/CT</td>
<td>444 (29.2%)</td>
<td>586 (38.8%)</td>
<td>+32.0%</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Rectal GC/CT</td>
<td>390 (25.7%)</td>
<td>520 (34.4%)</td>
<td>+33.3%</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Urethral GC/CT</td>
<td>510 (33.6%)</td>
<td>697 (46.2%)</td>
<td>+36.7%</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>All three sites</td>
<td>243 (16.0%)</td>
<td>466 (30.9%)</td>
<td>+91.8%</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Syphilis</td>
<td>962 (63.3%)</td>
<td>976 (64.6%)</td>
<td>+1.5%</td>
<td>0.456</td>
</tr>
</tbody>
</table>

* t-test comparing two sample proportions
### Self-Reported Behaviors, Testing & Positivity at Madison Clinic

<table>
<thead>
<tr>
<th>Give Oral Sex</th>
<th>Pharyngeal Tests</th>
<th>Pharyngeal GC +</th>
<th>Pharyngeal CT +</th>
</tr>
</thead>
<tbody>
<tr>
<td>348</td>
<td>320* (92%)</td>
<td>32 (10%)</td>
<td>3 (0.9%)</td>
</tr>
</tbody>
</table>

* 2 tests rejected by lab for labeling or collection errors

<table>
<thead>
<tr>
<th>Receptive Anal Sex</th>
<th>Rectal Tests</th>
<th>Rectal GC+</th>
<th>Rectal CT +</th>
</tr>
</thead>
<tbody>
<tr>
<td>312</td>
<td>302* (97%)</td>
<td>33 (10.9%)</td>
<td>28 (9.3%)</td>
</tr>
</tbody>
</table>

* 2 tests rejected by lab for labeling or collection errors

**Only 269 (77%) Syphilis Test Done!**
Acceptability of STI Self-testing Program Among 79 MSM Self-testers

- Overall: 92.4%
- Patient Assessment Form: 84.8%
- Throat Poster: 98.7%
- Rectal Poster: 87.3%
- Supplies: 97.5%

Barbee JAIDS
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