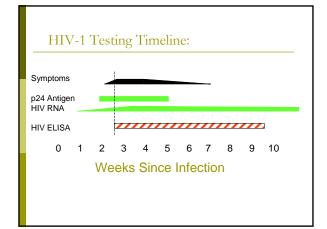
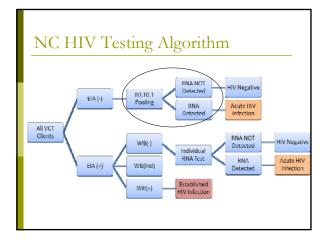
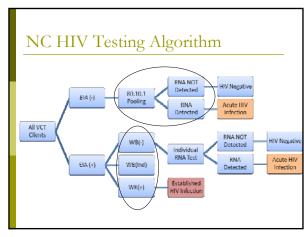


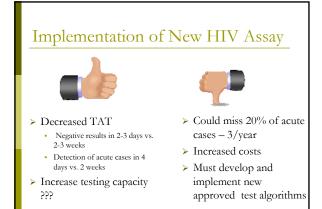
# HIV Ag/Ab Assays

- FDA approval of 4<sup>th</sup> generation HIV p24 Ag/Ab Combination assay from Abbott Diagnostics
- Detects the spectrum from acute to chronic infection (cannot differentiate)
- Narrows the "window period" between infection and detection
- Expected to replace existing test algorithms that use pooled NAAT for detection of acute cases











- Pay particular attention to the labeling of tubes

  Automated equipment at SLPH demands consistency
- (EIA instruments, capper/uncapper instrument, pooling instrument, Tigris)
- New HIS labels · Good for HIV scannable forms (contains all required information)
- Bad for sample tubes (4" labels are too long)
- Most importantly, make sure patient ID information on test request exactly **matches** information on sample tube label
- · Full first and last name and either SSN or DOB
- > Sample volume needed for HIV testing: 3.0 mL
- Clerical errors ×
  - · Continue to fax requests for corrections to reports
  - Error rate <0.6% (QA study conducted in December 2009)</li>
- > Post-test counseling information no longer required

### **Syphilis**

- > SLPH uses TRUST for non-treponemal screening; titer if Reactive.
- > Switched from Captia IgG EIA to TrepSure EIA for confirmation of non-treponemal results in August 2009
- > TrepSure detects both IgM and IgG antibodies
- > Fewer "equivocal" confirmatory results:
  - Captia 2.4% Equivocal Rate (2008)
  - TrepSure 0.4% Equivocal Rate (2009)
- > 2.0% lower = 2,200 patient results/year!

### Reminders for Syphilis Submissions

- > Provide two matching identifiers on sample and form (full first and last name and either SSN or DOB)
- > Use newest downloadable forms from website (no two-part pink carbon forms for TRUST)
- > Indicate screening titer on requests for confirmatory testing
- > Include submitter information on all test requests
- > Use correct mailers: white label/SYPHILIS for TRUST blue label/SPECIAL SEROLOGY for TrepSure
- > Don't include Rubella samples with Syphilis samples

### Chlamydia/Gonorrhea

Recommendations from Expert Consultation Meeting in January 2009 (expected to comprise 2010 Chlamydia/Gonorrhea Testing Guidelines - due out this fall)

- > NAATs are test of choice for detection of CT/GC infections in men and women with and without symptoms. • GenProbe PACE non-amplified probe test will be discontinued 12/31/2012
- · GC culture still important to monitor antibiotic resistance
- > Optimal specimen types for NAAT are first catch urine from men and vaginal swabs from women.
- SLPH will change from endocervical swabs to all vaginal swabs in January 2011 Advantages include patient self-collection options
- Vaginal swabs will replace limited urine testing in Family Planning clinics

#### Chlamydia/Gonorrhea

- NAATs are recommended for detection of rectal and oropharyngeal infections caused by C. trachomatis and N. gonorrhoeae.
  - Testing of these specimen types have not been cleared by the FDA for use with NAATs
  - Laboratories must establish performance specifications to satisfy CMS regulations for CLIA compliance prior to reporting results for patient management
     Testing not available yet at SLPH
- Routine repeat testing of NAAT positive screening specimens is not recommended. SLPH discontinued repeat testing of low positive results in 2009
- > NAATs are acceptable for use in adult cases of sexual abuse. SLPH does not offer Chain of Custody for legal cases

## Reminders for CT/GC Submissions

- > Adhere to testing criteria to ensure specimen will be tested:
  - All females < 25 years of age, all pregnant females, all symptomatic females

  - retest for CT/GC at three months post-treatment sex partner referral

  - high risk history (new partner, multiple partners) CT testing prior to IUD insertion
- > Complete all sections of test request form:
  - Clinic Type
  - Specimen source
  - Signs/symptoms
  - Pregnancy status
  - Reason for visit

# Reminders for CT/GC Submissions

> Check expiration dates on collection kits. Sample will be deemed UNSAT if kit expiration date precedes collection date.



> Ensure that the final volume of urine in urine collection kit falls between the two black fill lines on the transport tube.



#### Herpes

- > HSV culture service available only to LHDs and other state operated health care facilities
  - Specimens for HSV culture limited to the following: Specimens from prenatal patients who have a suspicious lesion not previously confirmed as herpers. Routine cultures in the absence of lesions are not accepted. Specimens from patients presenting with an atypical lesion where a clinical distinction cannot be made between herpes, chanceid, and sphulis. Cultures done simply to confirm a clinical diagnosis of herpes not available on a routine basis
- > Herpes virus culture from urogenital sites limited to one specimen/patient. If more than one site is cultured, both swabs should be submitted in the same transport tube. DO NOT place more than two swabs in a single viral transport medium vial.

#### Lymphogranuloma venereum (LGV)

- > Rectal swab specimen should be collected and tested for chlamydia by NAAT first
  - (rectal NAAT for chlamydia/GC not currently available at SLPH)
- > If rectal swab specimen is NAAT positive for chlamydia, sample will then be forwarded to CDC for differential LGV testing
- > If initial NAAT cannot be performed at local level, CDC can perform this testing first on suspect samples
- > LGV serology is not available at either SLPH or CDC
- > If serology is desired, specimen can be sent to a reference lab (Focus Diagnostics)

### Chancroid (Haemophilus ducreyi)

- > No longer recommend culture of organism because it is seldom successful; diagnosis usually made by clinical evidence and exclusion of other STD agents associated with lesions
- > PCR: Collect specimens from lesions of inguinal bubo on a dry swab (not one with semi-solid transport media)
- > Maintain swab at -20° C until time of shipment to SLPH, then ship with cold packs
- > Specimen will be forwarded to CDC for PCR testing
- > Turn around time for test results is generally 1-2 weeks

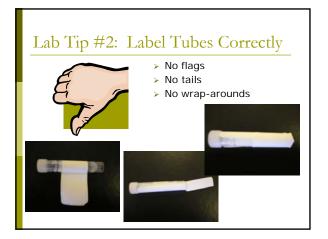
### Lab Tip #1: Use Correct Tubes & Caps

- Sarstedt tubes and caps
- > Order from SLPH website



 <u>No</u> Simport tubes/caps

- <u>No</u> glass tubes
- No SST (clot tubes)





# Lab Tip #3: Use Correct Mailers

- Mailers are color-coded for sorting
- Don't mark through label
- > Order online



