MultiSpot and Insti Testing Platforms

Kerri Penrose, MS
MTN Virology CORE
Multi-spot HIV-1/HIV-2 Test

- Would replace WB testing
  - Can be done at site; fast results
  - Differentiates between HIV-1 and HIV-2
  - Nucleic acid testing (viral load) would still be used to resolve discordant or indeterminate results
  - FDA-approved
Performance of Multi-spot vs. WB

- 8,760 specimens tested positive by EIA and were tested by both WB and Multi-Spot

- Multi-spot was able to...
  - Detect an additional 14 HIV-1 infections
  - Differentiate 26 WB positives as HIV-2 infections
  - Detect an additional 12 HIV-2 infections
Kit components
The Multi-spot HIV1/HIV-2 Test detects highly conserved HIV envelope regions

1 Procedural control: Anti-human IgG (goat)
2 HIV-2 Peptide: HIV-2 gp36 envelope peptide
3 Recombinant (E. coli) HIV-1: recombinant gp41
4 HIV-1 Peptide: immunodominant epitope of HIV-1 gp41
Multi-spot HIV-1/HIV-2 Procedure

1. Remove foil; press prefILTER down. Label cartridge and specimen or control test tubes.
2. Add 2 full droppers of Specimen Diluent to each test tube.
3. Add one drop of each sample or control to each labeled tube using a transfer pipette. Mix well.
4. Pour each sample into the prefilter of the labeled cartridge. Wait 2 minutes.
5. Remove and discard prefILTER.
6. Fill the central well of each cartridge with Wash Solution.
7. Once absorbed, add 3 drops of Conjugate. Wait 2 minutes.
Multi-spot HIV-1/HIV-2 Procedure

8. Fill well with Wash Solution and let absorb. Repeat.
10. Fill well with Stop Solution. Allow to absorb and read results.
Multi-spot HIV-1/HIV-2 Results

- HIV Negative
- HIV-1 Positive
- HIV-2 Positive
- HIV Positive; undifferentiated
- Invalid Test Result
Questions?
INSTI™ HIV-1/HIV-2 Rapid Antibody Test

- Flow-through Immunoassay for the detection of HIV-1 antibodies
- Can test EDTA whole blood, fingerstick, serum and EDTA plasma
- *Results in as little as 60 sec!*
Kit components
INSTI™ HIV-1/HIV-2 Rapid Antibody Test

**Procedural control:** protein A, detects human IgG

**Test region:** recombinant HIV1 gp41 and HIV-2 gp36, detects HIV-1 and HIV-2 antibodies
INSTI™ HIV-1/HIV-2 Rapid Antibody Test Procedure

1. Pour the entire contents of bottle number 1 into the center of the Membrane Unit well. HIV antibodies, if present,
2. Add the entire contents of bottle number 2, Colour Developer, into the center of the Membrane Unit well to
3. Add the entire contents of bottle number 3, Clarifying Solution into center of the Membrane Unit well to reduce background colour and
INSTITM HIV-1/HIV-2 Rapid Antibody Test Results

VALID RESULTS

INVALID RESULTS
Questions?
Acknowledgements

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