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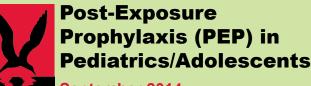
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Treatment of Sexually Transmitted Diseases (STDs) in HIV-Infected Patients Treatment of Tuberculosis (TB) in HIV/AIDS



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There are no official guidelines for prophylaxis of non-occupational HIV exposure in Pediatrics/Adolescents. This resource was developed utilizing the references below

Information summarized in this resource includes management of exposures, study findings related to exposure, important discussion points when assessing the exposed individual, recommended antiretroviral (ARV) regimens for post-exposure prophylaxis (PEP) of HIV, ARV adverse effects, hepatitis B PEP, and hepatitis C post-exposure

The mode of HIV exposure potentially includes: acute sexual assault, chronic sexual abuse, bites or other trauma causing bleeding, and puncture wounds from needles found in the environment. Child Protection Teams (CPT), schools, youth athletic programs, juvenile justice centers, and other entities that include participation of children and adolescents may find guidance on this topic helpful.

While data from occupational post-HIV exposure prophylaxis, perinatal exposure prophylaxis, and animal studies on transmission prevention cannot be directly extrapolated to non-occupational exposure, it is reasonable to assume that a similar response to ARV therapy post-HIV non-occupational exposure also would be seen. As with adults receiving medications for HIV exposure, this prophylaxis is recommended to continue for 28-days/4 weeks.

Seek immediate attention from your doctor or the local Health Department. For victims of crime without insurance or medication coverage in the State of Florida, the Florida Attornev General's Division of Victim Services at 1.800.226.6667 may be able to sist with coverage for the ARV drugs.

References:

New York State Department of Health AIDS Institute. HIV Prophylaxis following Non-Occupational Exposure. Albany, NY: NYSDOH AIDS Institute; 2004. Updated July, 2013. delines.org/wp-content/uploads/2013/09/ osure.pdf. Accessed September 5, 2014.

- 2. New York State Department of Health AIDS Institute, HIV Post-Exposure Prophylaxis for Children Beyond the Perinatal Period. Albany, NY: NYSDOH AIDS Institute; 2004 Available at: http://www.hivguidelines.org/wp-content/ hylaxis-for-children-beyond-the-perinatal-period.pdf. Accessed September
- 3. Centers for Disease Control and Prevention (CDC). Sexually Transmitted Diseases Treatment Guidelines. 2010. Available at: http://www.cdc.gov/std/treatment/2010/s ssault.htm. Accessed September 5, 2014.
- Panel on Antiretroviral Therapy and Medical Management of HIV-Infected Children. Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection. Available
- 5. New York State Department of Health AIDS Institute. HIV Prophylaxis for Victims of Sexual Assault. Albany, NY: NYSDOH Al; 2013. Available at: http://www.hivguidelines.org/wp-content/uploads/2013/11/hiv-prophylaxis-for-victims-of-sexual-assault.pdf. Accessed Accessed September 5, 2014.
- CDC. Antiretroviral postexposure prophylaxis after sexual, injection-drug use, or other non-occupational exposure to HIV in the United States: recommendations from the U.S. Department of Health and Human Services. MMWR, 2005;54(RR-2), 1-19. Available at: September 5, 2014.

Estimated Risk of HIV Transmission Following Different Types of Exposures

New York State Department of Health AIDS Institute: HIV Prophylaxis following Non-Occupational Exposure. Albany, NY: NYSDOH AIDS Institute; 2004.

New York State Department of Health AIDS Institute. HIV Post-Exposure Prophylaxis for Children Beyond the Perinatal Period. Albany, NY: NYSDOH AIDS Institute; 2004.

| Available at. http://www.nivguidelines.org/wp-content/dpicads/2013/10/niv-post-exposure-propriylaxis-tol-critical-beyond-rite-permatar-period.pdf. Accessed Geptermen 3, 2014. | | | | |
|--|--|--|--|--|
| Types of Exposure | Estimated Risk | | | |
| Needle-sharing exposure to an infected source | 0.67% (1 in 150) | | | |
| Receptive anal intercourse with an infected source | 0.5% (1 in 200) / 3.0% (6 in 200) | | | |
| Receptive vaginal intercourse with an infected source | 0.1% (1 in 1000) / 0.2% (2 in 1000) | | | |
| Insertive anal intercourse with an infected source | 0.065% (1 in 1500) | | | |
| Insertive vaginal intercourse with an infected source | 0.05% (1 in 2000) | | | |
| Oral sex with ejaculation with an infected source | Conflicting data-however, risk is considered to be low | | | |

Types of Exposures and PEP Recommendations

New York State Department of Health AIDS Institute: HIV Prophylaxis following Non-Occupational Exposure. Albany, NY: NYSDOH AIDS Institute; 2004.

New York State Department of Health AIDS Institute. HIV Post-Exposure Prophylaxis for Children Beyond the Perinatal Period. Albany, NY: NYSDOH AIDS Institute; 2004.

Types of Exposures that DO NOT Require HIV PEP

- Exposure to needles or sharps that have not been in contact with a HIV-infected or at-risk person
- Human bites not involving blood
- Kissina
- Oral sex without ejaculation or blood exposure
- Oral to oral contact without mucosal damage

HIV PEP is Recommended for the Following:

- Direct contact of vagina, anus, penis, or mouth with semen, vaginal fluid or blood of the alleged perpetrator with or without visible injuries, tissue damage, or blood
- Injuries with exposure to blood from a source known to be HIV-infected
- Injuries with exposure to blood from a source of unknown HIV status (including needlesticks, human bites, accidents)
- Needle sharing
- Victim's broken skin or mucous membranes were in contact with blood, vaginal fluid, or semen of the alleged perpetrator

Discussion with Family/Child/Adolescent Prior to Starting ARVs

Assess whether or not a significant exposure occurred during sexual assault or other injury exposure

If HIV status and age of alleged perpetrator is known or not

Child/Adolescent's readiness to take ARVs for 28 days

Importance of adherence

Importance of clinical and laboratory follow-up

Potential risk and benefits of ARV post-exposure prophylaxis

Prevalence of HIV in community/facility

Recognition that HIV prevalence in sexual assailants may be higher than that of the general population

Signs of retroviral syndrome: fever, pharyngitis, lymphadenopathy, rash, hepatosplenomegaly (HSM)

Available at: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2529409/.

2. Becker, C., et al. Occupational infection with human immunodeficiency virus (HIV). Risks and risk reduction. Ann Intern Med 110(8):653-6, 1989. Available at: http://www.aidsmap.

Considerations for Needle Sticks in the Community

non-occupational exposure to HIV in the United States: recommendations from the U.S Department of Health and Human Services. MMWR, 2005;54(RR-2), 1-19. Available at

Accessed September 5, 2014. Consider giving hepatitis B Immune Globulin (HBIG) and hepatitis

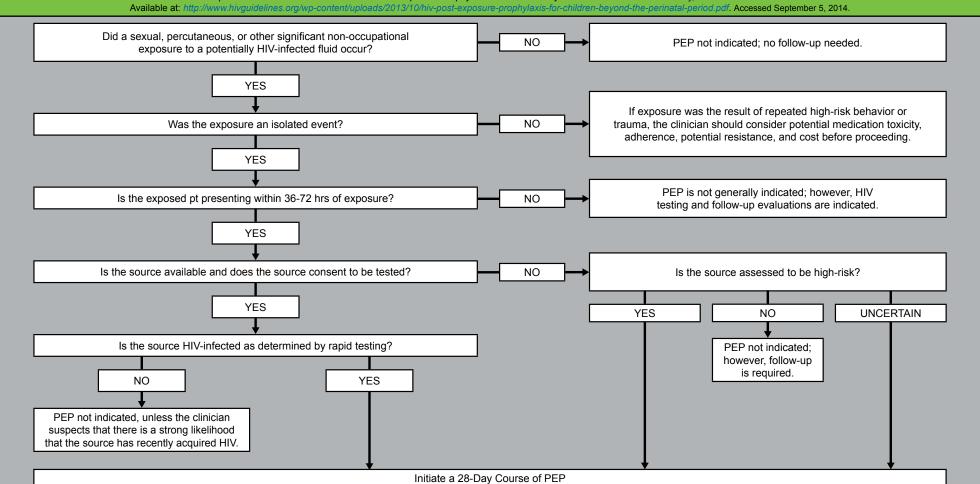
B vaccine for children and adolescents who have not completed their hepatitis B vaccine series

Consider vaccinating against tetanus Considerations for assessing risk for HIV and need for PEP:

- It is extremely unlikely that HIV infection would occur following an injury from a needle discarded in a public place1
- Estimated risk of HIV transmission from needles found in
- community (0.32%)2 Depth of skin penetration
- Potential source of needle
- Type of needle
- Presence of blood
- Prevalence of HIV in community/facility
- Prevalence of IV drug use in community NO NEED TO HAVE NEEDLE TESTED FOR HIV

PEP Following Non-Occupational Exposure Including Sexual Assault

New York State Department of Health AIDS Institute. HIV Post-Exposure Prophylaxis for Children Beyond the Perinatal Period. Albany, NY: NYSDOH AIDS Institute 2004.



Adverse Effects for ARVs

Most common adverse effects of ARVs when used for 28-day course for PEP are malaise and GI disturbances (e.g., nausea, vomiting, diarrhea)

| Nucleoside | Reverse | Transcriptase | Inhibitors (NRTIs) |
|------------|---------|---------------|--------------------|
| | | | |

Emtricitabine Generally well-tolerated, ↑ pigmentation of palms/soles (> in black and Hispanic pts), exacerbation of hepatitis may occur after discontinuation if hepatitis B infected³ Tenofovir Exacerbation of hepatitis may occur after discontinuation if hepatitis B infected4

Integrase Strand Transfer Inhibitors (INSTIs)

Psychomotor hyperactivity, abnormal behavior, insomnia Protease Inhibitors (PIs) GI disturbances, jaundice/scleral icterus, rash, hyperbilirubinemia, nephrolithiasis, and cholelithiasis⁶

Dysgeusia (may mix liquid formulation with chocolate milk, chocolate pudding, or ice cream to disguise taste), GI disturbances, and lipid elevations (usually well tolerated when used in low doses for boosting)^{6,7} Ritonavir

7. Prezista® [package insert]. Titusville, NJ: Janssen Therapeutics; Revised April 2014.

Raltegravir

Atazanavir

Darunavir

5. Isentress® [package insert]. Whitehouse Station, NJ: Merck & Co., Inc.; Revised April 2014

Antiretroviral Regimens for Pediatric/Adolescent HIV Post-Exposure Prophylaxis

While no official Pediatric/Adolescent non-occupational HIV post exposure prophylaxis regimens are published, our team selected the ARV PEP regimen based on recommendations from NY AIDS Institute guidelines, DHHS Pediatrics guidelines, tolerability, potency, and limited drug interactions. Our team suggests the preferred regimen based on the ARVs' site of action (prior to HIV incorporating itself into the host CD4 cell nucleus) & the drugs' tolerability with few side effects

Based on recommendations from the DHHS Guidelines on Antiretroviral postexposure prophylaxis after sexual, injection-drug use, or other nonoccupational exposure to HIV in the US and the AIDS Institute's HIV Prophylaxis for Victims of Sexual Assault

New York State Department of Health AIDS Institute. HIV Prophylaxis following Non-Occupational Exposure. Albany, NY: NYDOH AIDS Institute; 2004. Available at: http://www.hivguidelines.org/wp-content/uploads/2013/09/hiv-prophylaxis-follo

New York State Department of Health AIDS Institute. HIV Post-Exposure Prophylaxis for Children Beyond the Perinatal Period. Albany, NY: NYSDOH AIDS Institute; 2004

Harbilas W., Lawrence R., Mahmoudi S., Editors. [brochure]. ARV Therapy in Pediatrics. Tampa, Florida: Florida/Caribbean AETC; 2014. Available at: www.fcaetc.org/freatment/pedsarv.pdf. Accessed September 5, 2014.

Consult a pediatric HIV specialist for instances when the regimens listed here cannot be used.

Adolescents Ages ≥ 12 yrs and at least Tanner Stage IV and > 40 kg

Raltegravir 400 mg by mouth twice daily + Tenofovir 300 mg by mouth once daily + Emtricitabine 200 mg by mouth once daily (these 2 drugs are the same as Truvada® 1 tab po daily)

Atazanavir 300 mg by mouth once daily + Ritonavir 100 mg by mouth once daily + Tenofovir 300 mg by mouth once daily + Emtricitabine 200 mg by mouth once daily

Darunavir 800 mg by mouth once daily + Ritonavir 100 mg by mouth once daily + Tenofovir 300 mg by mouth once daily + Emtricitabine 200 mg by mouth once daily

Children Ages 2 < 12 yrs or Those Who Cannot Swallow Pills

| Recommended PEP Regimens | Alternative PEP Regimens | | | |
|---|--|---|--|--|
| Raltegravir + Tenofovir + Emtricitabine | Atazanavir + Ritonavir + Tenofovir + Emtricitahine | Darunavir + Ritonavir + Tenofovir + Emtricitabine | | |

Dosing

Raltegravir:8 ≥ 4 weeks of age and weighing ≥ 3 kg to < 25 kg: </p>

- See table below for wt-based dosing
- Ages 6 to < 12 yrs:
- See table below for wt-based dosing of chewable tabs and oral solution
- Oral suspension: 6mg/kg (max) by mouth twice daily
- If child is at least 25 kg and can swallow pills, one 400 mg film-coated tablet orally twice daily may be used

| Weight (kg) | Dose (twice daily) | # of Chewable Tablets or Oral Suspension (twice daily) 9,10 Chewable tablets and film-coated pills are not equivalent. | |
|-------------|---|---|--|
| 3 to < 4 | 20 mg | 1 mL | |
| 4 to < 6 | 30 mg | 1.5 mL | |
| 6 to < 8 | 40 mg | 2 mL | |
| 8 to < 11 | 60 mg | 3 mL | |
| 11 to < 14 | 75 mg if using tablets 80 mg if using suspension | 3 x 25 mg or 4mL if using suspension | |
| 14 to < 20 | 100 mg | 1 x 100 mg or 5mL if using suspension | |
| 20 to < 28 | 150 mg | 1.5 x 100 mg | |
| 28 to < 40 | 200 mg | 2 x 100 mg | |
| ≥ 40 | 300 mg | 3 x 100 mg | |

- Wt-based dosing for chewable tablets is based on approximately 6 mg/kg/dose po bid. 100 mg tabs can be divided into halves.

Tenofovir: 11

Recommended PEP Regimen

- Ages 2 to < 12 yrs:
- Give powder or tablet formulation once daily
- See wt-based dosing table below

| Weight (kg) | Scoops of Powder ¹² (once daily) | Tablets (once daily) | |
|-------------|---|----------------------------------|--|
| 10 to < 12 | 2 | - | |
| 12 to < 14 | 2.5 | - | |
| 14 to < 17 | 3 | - | |
| 17 to < 19 | 3.5 | 150 mg | |
| 19 to < 22 | 4 | 150 mg | |
| 22 to < 24 | 4.5 | 200 mg | |
| 24 to < 27 | 5 | 200 mg | |
| 27 to < 29 | 5.5 | 27 kg – 200 mg 28 kg – 250 mg | |
| 29 to < 32 | 6 | 250 mg | |
| 32 to < 34 | 6.5 | 250 mg | |
| 34 to < 35 | 7 | 250 mg | |
| ≥ 35 | 7.5 | 300 mg | |

11. Viread® [package insert]. Foster City, CA: Gilead Sciences, Inc.; revised October, 2013. Powder formulation (use supplied scoop) should be mixed with 2-4 oz of soft food (e.g. applesauce, yogurt). Ingest immediately to avoid bitter taste. Do not add liquid since powder will float to top

Emtricitabine: 13

Ages 2 to < 12 yrs:

- Oral solution: 6 mg/kg (max 240 mg) by mouth once daily
- Capsule: 200 mg by mouth once daily if wt > 33 kg
- 13. Emtriva® [package insert]. Foster City, CA: Gilead Sciences, Inc.; Revised November, 2012.

Atazanavir / Ritonavir: 14

Ages ≥ 6 yrs old:

- Give capsule/tablet formulation once daily with food
- See wt-based dosing table below

| Weight (kg) | Atazanavir Dose (once daily) | Ritonavir Dose (once daily) |
|-------------|---------------------------------|--------------------------------|
| 15 to < 20 | 150 mg | 100 mg |
| 20 to < 40 | 200 mg | 100 mg |
| ≥ 40 | 300 mg | 100 mg |

14. Reyataz® [package insert]. Titusville, NJ: Janssen Therapeutics; Revised June, 2014.

Darunavir / Ritonavir: 15

Ages ≥ 3 yrs old:

Alternative PEP Regimens

<u>or</u>

- Give tablet or oral suspension by mouth once daily with food
- See wt-based dosing table below

| Weight (kg) | Tablet Formulation (once daily) | Oral Suspension (once daily) | | |
|--------------|--|---|--|--|
| ≥ 10 to < 11 | - | Darunavir 3.6 mL + Ritonavir 0.8 mL | | |
| 11 to < 12 | < 12 - Darunavir 4 mL + Ritonavir 0.8 mL | | | |
| 12 to < 13 | - | Darunavir 4.2 mL + Ritonavir 1 mL | | |
| 13 to < 14 | - | Darunavir 4.6 mL + Ritonavir 1 mL | | |
| 14 to < 15 | - | Darunavir 5 mL + Ritonavir 1.2 mL | | |
| 15 to < 30 | Darunavir 600 mg + Ritonavir 100 mg | Darunavir 6 mL + Ritonavir 1.25 mL | | |
| 30 to < 40 | Darunavir 675 mg + Ritonavir 100 mg | Darunavir 6.8 mL + Ritonavir 1.25 mL | | |
| ≥ 40 | Darunavir 800 mg + Ritonavir 100 mg | Darunavir 8 mL + Ritonavir 1.25 mL | | |

Prezista® [package insert]. Titusville, NJ: Janssen Therapeutics; Revised April, 2014.

SPECIAL THANKS TO:

Maribel Gonzalez, MSN, ARNP

for her review and contributions

Recommended Monitoring After Exposure

New York State Department of Health AIDS Institute. HIV Prophylaxis following Non-Occupational Exposure. Albany, NY: NYSDOH AIDS Institute; 2004. Available at New York State Department of Health AIDS Institute. HIV Post-Exposure Prophylaxis for Children Beyond the Perinatal Period. Albany, NY: NYSDOH AIDS Institute; 2004.

| | Available at: http://www.nivguidelines.org/wp-content/uploads/2013/10/niv-post-exposure-prophylaxis-ror-children-beyond-tne-perinatal-period.pdf. Accessed September 5, 2014. | | | | | | | | |
|----------|---|---|---|--------------------------------------|--|---|---------------------------------|---|---|
| | Clinic Visit | Complete Blood Count with Differential/Platelets (CBC w/Diff/Plt) | Comprehensive Metabolic Panel (CMP) | HIV 1,2 Ag/Ab or HIV 1,2 ELISA/WB | Hepatitis B Surface Antibody (HBsAB) | Hepatitis B Surface Antigen (HBsAg) | Hepatitis C Antibody (HCVAb) | Rapid Plasma Reagin (RPR), gonorrhea, chlamydia | Human Chorionic Gonadotropin- urine (uhCG) Pregnancy for Q |
| Baseline | × | × | × | × | × | × | × | × | × |
| Week 2 | × | × | × | | | | | | × |
| Week 4-6 | × | × | × | × | | × | × | X RPR only | × |
| 3 Months | × | | | × | | × | × | X RPR only | |
| 6 Months | × | | | × | | × | × | | |

Post-Exposure Prophylaxis for Hepatitis B Virus (HBV)

CDC. Updated U.S. Public Health Service Guidelines for the Management of Occupational Exposures to HBV, HCV, and HIV and Recommendations for Postexposure Prophylaxis. MMWR, 2001;50(RR-11): 1-53. Available at: www.cdc.gov/mmwr/pdf/rr/rr5011.pdf. Accessed: September 5, 2014. CDC. CDC Guidance for Evaluating Health-Care Personnel for Hepatitis B Virus Protection and for Administering Postexposure Management. MMWR, 2013;62(RR-10); 1-19. Available at: http

Management of Exposures to HBV

- Any blood or body fluid exposure to an unvaccinated person should lead to the initiation of the hepatitis B vaccine series, unless they have not responded after a second complete vaccination series (after two 3-dose series) Recombivax HB® 10 mcg or Engerix-B® 20 mcg IM at 0, 1, and 6 months (Consider 40 mcg dose if exposed person is on dialysis or is immunocompromised)
- When hepatitis B Immune Globulin (HBIG) is indicated, it should be administered as soon as possible after the exposure (preferably within 24 hours, but is recommended up to 14 days following an occupational exposure)
- HBIG can be administered simultaneously with the hepatitis B vaccine, but at a separate site Test for hepatitis B surface antibody (HBsAb) 1-2 months after last dose of vaccine series or booster, adequate HBsAb ≥ 10 mIU/mL (>0.99 index value)
- Persons who have HBsAb < 10 mlU/mL, or who are unvaccinated or incompletely vaccinated, and sustain an exposure from a source pt who is HBsAg (+) or has an unknown HBsAg status, should undergo baseline testing for HBV infection as soon as possible after exposure, and followup testing approximately 6 months later
 - a tacting conciete of hangtitie
 - Testing at 6 months consists of HBsAg and HBcAb total

| EXPOSED PERSON'S | TREATMENT | | | |
|---|--|---------------------------|--|--|
| IMMUNE STATUS | Source HBsAg (+), HBsAg (unknown) or Not Available for Testing | Source HBsAg (-) | | |
| Unvaccinated or Incomplete Vaccination | HBIG (0.06 mL/kg IM) x 1 and vaccinate | Vaccinate | | |
| Vaccinated-responder (HBsAb ≥ 10 mIU/mL) | No PEP | No PEP | | |
| Vaccinated-nonresponder (HBsAb < 10 mIU/mL) | After first vaccination series- HBIG (0.06 mL/kg IM) x 1 and revaccinate ¹⁶ | Revaccinate ¹⁶ | | |
| | After second vaccination series- HBIG (0.06 mL/kg IM) x 2 (at time of exposure and 1 month after exposure) | No PEP | | |
| Vaccination Completed (HBsAb response unknown) | Test exposed person for HBsAb. If HBsAb ≥ 10 mIU/mL, no PEP necessary | No PEP | | |
| | Test exposed person for HBsAb. If HBsAb < 10 mIU/mL, administer HBIG x 1 and revaccinate 16 | Revaccinate ¹⁶ | | |

16. Give vaccine booster dose; check antibody response (HBsAb quantitative) 1-2 months later; give additional 2 doses (for total of 6 doses) if HBsAb remains < 10 mIU/mL and repeat HBsAb 1-2 months later.

Post-Exposure Management for Hepatitis C Virus (HCV)

CDC. Updated U.S. Public Health Service Guidelines for the Management of Occupational Exposures to HBV, HCV, and HIV and Recommendations for Postexposure Prophylaxis. MMWR, 2001;50(RR-11), 1-53. Available at: www.cdc.gov/mmwr/pdf/rr/rr5011.pdf. Accessed: September 5, 2014.

CDC. Recommendations for the Identification of Chronic Hepatitis C Virus Infection Among Persons Born During 1945-1965. MMWR, 2012;61(4) 1-34. Available at: http://www.cdc.gov/mmwr/pdf/rr/rr6104.pdf. Accessed: September 5, 2014. CDC. Testing for HCV Infection: An Update of Guidance for Clinicians and Laboratorians. MMWR, 2013;62(18), 357-365. Available at: htt html/mm6218a5.htm. Accessed: September 5, 2014.

Management of Exposures to HCV

- Perform hepatitis C virus antibody test (HCV Ab) for the exposure source¹⁷; if source is an injection drug user or immunocompromised, consider adding HCV viral load testing
- Perform baseline testing for HCV Ab and alanine transaminase (ALT) activity for the exposed person
- Perform follow-up testing: HCV Ab and ALT activity at 4-6 months or
 - HCV viral load at 4-6 weeks for earlier detection
- · Confirm HCV Ab results reported positive by testing for HCV viral load

Post-Exposure Management for HCV

- · No regimens proven beneficial for PEP
- · Early identification of acute HCV and referral to hepatitis C specialist for management if infected

17. "Recommendations for the Identification of Chronic Hepatitis C Virus Infection Among Persons Born During 1945-1965" p.14 "Testing Methods Hepatitis C Antibody Testing" MMWR August 17, 2012 61(4).