- of HIV-1 RNA and confirm or exclude HIV-1 infection. (A*) · If HIV-1 RNA is detected, the clinician should inform the patient of the acute HIV-1 diagnosis, recommend ART initiation, and prioritize counseling to prevent HIV transmission. (A1)
- testing may determine if the patient has HIV-1 or HIV-2 infection. Step 3: HIV-1 Nucleic Acid Testing (qualitative or quantitative HIV RNA testing)
- If the HIV-1/2 Ab differentiation immunoassay (step 2) result is nonreactive (negative), indeterminate (neither positive nor negative for HIV-1 or HIV-2), and the lab does not perform reflex testing, the clinician should immediately order HIV-1 RNA NAT (step 3) to detect the presence
- Note: If the HIV Ab differentiation assay result is positive but undifferentiated (i.e., reactive for both HIV-1 and HIV-2), repeat
- should perform supplemental testing (step 2) with an FDA-approved HIV-1/HIV-2 Ab differentiation immunoassay. (A1) \cdot If the result of the HIV Ab differentiation immunoassay (step 2) is positive

for HIV-1 or HIV-2 Abs, the clinician should provide or refer the patient for rapid ART initiation and transmission prevention counseling. (A1)

- Refer to the NYSDOH AI guideline Rapid ART Initiation.

- Step 2: HIV-1/HIV-2 Antibody Differentiation Immunoassay • Per the standard HIV laboratory testing algorithm, if a reactive result is obtained with an HIV-1/2 Ag/Ab immunoassay testing (step 1), clinicians

- HIV exposure. (A3)
- acute HIV is suspected, for as long as an individual remains at high risk of
- · Clinicians should offer repeat HIV testing every 3 months, or sooner if

or refer the patient for prevention services. (A3)

· In the case of a nonreactive result, the clinician should discuss goaloriented, harm-reduction strategies, including PrEP and emergency PEP, with any patient who reports recent or likely ongoing HIV risk exposures

ALL RECOMMENDATIONS (continued from P.1)

Step 1: HIV-1/2 Antigen/Antibody Immunoassay Continued

and reactive results of any in-home HIV testing. (A3)

HIV laboratory testing algorithm.

ZUL RECOMMENDATIONS

requirements (Box 1).

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mdfing With the Standard 3-Step Algorithm

(see NYSDOH Provider Reporting and Partner Services).

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HIV TESTING

testing and emphasize that a laboratory should repeat both nonreactive

appropriate laboratory diagnostic testing to confirm a patient's HIV status. (A1) should consider all reactive initial test results preliminary and perform

(A2); otherwise, rapid tests are not recommended for step 1 of the standard FDA-approved HIV screening test that provides results within 60 minutes

· For initial testing of newborns or individuals who are in labor, being evaluated

Ag/Ab immunoassay (formerly known as the "4th-generation" test). (A2)

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• For initial HIV testing (aka "screening"), clinicians should use an HIV-1/2

See full guideline for overview of NYS public health law HIV testing

· Clinicians must report confirmed cases of HIV according to NYS law

ΑΥΣΟΟΗ ΑΙΩς ΙΝΟΤΙΤΟΤΕ ΗΙΥ CLINICAL GUIDELINE

Additional information regarding testing procedures and regulations is

· Clinicians must perform diagnostic HIV laboratory tests in full compliance

VISIT HIVGUIDELINES.ORG TO LEARN MORE OR VIEW COMPLETE GUIDE

HIN CLINICAL RESOURCE 🔢 1/4-FOLDED GUIDE

available from the NYSDOH Wadsworth Center (518-474-2163).

· Clinicians should educate patients about the limitations of in-home

· Because all initial HIV tests are subject to false positive results, clinicians

for PEP, or unlikely to return for test results, clinicians should use an

P.2

ALL RECOMMENDATIONS (continued from P.2)

individuals. (A2)

United States.

Diagnosis of HIV-2 Infection

point-of-care HIV screening tests

· HIV tests that are not recommended

Rapid HIV screening tests

Home-based tests

Laboratory HIV screening tests

of patients with HIV-1. (A1)

P.3

8---- КЕЛ DOINTS

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sample without supplemental orders. Other labs may require additional Ising in the Although the length of the second method of the second seco results-reporting policies. Many labs will reflex additional screening steps Become familiar with the laboratory's internal testing algorithm and

· Clinicians should not wait for serologic confirmation of HIV to initiate

ART when pregnant individuals are diagnosed with acute HIV infection

by HIV-1 NAT; initiation of ART is strongly recommended for pregnant

- See DHHS: Recommendations for the Use of Antiretroviral Drugs in Pregnancy and Interventions to Reduce Perinatal HIV Transmission in the

· To determine the HIV status of an infant born to an individual with

· When HIV-2 antibodies are detected, clinicians should perform a clinical

evaluation for HIV-2 infection that is similar in scope to the evaluation

See appendix in full guideline for information on FDA-approved HIV

screening and diagnostic tests available for use in NYS, including:

· Clinical Laboratory Improvement Amendments (CLIA)-waived

HIV-1, clinicians should perform HIV-1 RNA NAT. (A1)

HIV IMMUNOASSAYS AVAILABLE IN NYS

Alternative HIV tests (oral and urine specimens)

samples or supplemental orders to complete all steps in the algorithm.

- When possible, collect blood by venipuncture for laboratory submission.
- laboratory to ensure the specimen will be suitable for all tests in the algorithm. Consult the specimen collection and handling instructions provided by the
- NYS clinicians providing care for HIV-exposed infants. For information HIV testing services at the Wadsworth Center, which is free of charge for NYSDOH strongly recommends that all NYS birth facilities use the pediatric
- about this service, contact the Wadsworth Center at 518-486-9605.

(Step 2) YIH/r-VIH Differentiation Immunoassay (Step 2)

- specimens for HIV-1 RNA, even if the result is HIV-2 indeterminate. indeterminate for any HIV type (HIV-1, HIV-2, or untypable HIV), test the If the Geenius II vietpretation is nonreactive or
- IN SOME Cases. Nonspecific reactivity could cause an HIV-2 indeterminate result to occur.
- HV-2 indeterminate or HIV indeterminate, an HIV-2 NAT may be warranted. ۰ If HIV-۱ RNA is not detected and the Geenius Reader interpretation is

(5 q912) gnitest biod oisloud ANR 1-VIH

rapid ART initiation, a false negative result for the HIV-1 RUA test may occur. • If the person being tested is taking antiretroviral agents as PEP, PrEP, or for

go directly to a mobile-friendly version of this guideline. ← Use this code with your phone's QR code reader to

hivguidelines.org. guideline si anilabiug Ilu7. Full guideline is available at New York State Department of Health AIDS Institute This 1/4 -Folded Guide is a companion to the





Step 3: HIV-1 Nucleic Acid Testing (qualitative or quantitative HIV RNA testing) Continued

FIGURE 2: HIV Laboratory Testing Algorithm [a]



Food and Drug Administration; NAT, nucleic acid test; NYSDOH, New York State Department of Health; PEP, post-exposure prophylaxis; PrEP, pre-exposure prophylaxis.

- for the HIV laboratory diagnostic testing algorithm. a. Adapted from CDC 2018 Quick reference guide: Recommended Idboratory HIV testing algorithm for serum or plasma specimena and APAL Suggested reporting language :səioN
- VIN testing algorithm for serum or plasma due to their superior sensitivity for detecting acute HIV infection. However, the FDA-approved single-use rapid HIV-1/ b. APHL and CDC continue to recommend that laboratories use an FDA-pproved instrumented VINI+2-XPHL and CDC continue to recommend that laboratories are the initial assay in the laboratory
- differentiation immunoassay and VI RNA in the original sample without supplemental orders. Other labs may require additional samples or supplemental orders c. Become familiar with the laboratory's internal testing algorithm and results-reporting policies. Many labs will reflex additional screening steps (such as HV Ab eldelise no si yesse beinemuniten in an erle unitiel eleveratory VIH treating algorithm for serun or plasen in an instrumented assay is not verse of the plane.
- to complete all steps in the algorithm.
- d. This includes specimens reported as HIV-2 positive with HIV-1 cross-reactivity.
- e. Further testing may be performed to determine type.
- HIV-2 indeterminate, it should be reported as such and followed with an HIV-2. f. Per the Geenius package insert, specimens with this final assay interpretation should be retested with a new cartridge. If the final assay interpretation is again
- immunoassay result is presumed false positive. is required. If HIV-1 RNA is detected, acute HIV-1 is present, and clinicians should proceed with clinical evaluation. If no HIV-1 RNA is detected, the initial HIV-1 RUA test as soon as possible. To reflex directly to an HIV-1 RUA test, a test kit approved by either the FDA or UYSDOH to aid in diagnosing HIV-1 infection referring the specimen to another laboratory. If the laboratory is unable to or does not automatically reflex directly to the RNA test, clinicians should order an g. Most laboratories reflex directly to an HIV-1 RUB test without requiring an additional test order or new specimen, either by performing the test in-house or
- a different validated supplemental HIV-2 test (antibody test or NAT) if available. Alternatively, redraw and repeat algorithm in 2 to 4 weeks to assess HIV-2 infection. h. An egative VIH r-VIH r-VIH r-VIH r-VIH r-VIH r-VIH restinate or HIV indeterminate antibody differentiation imminoritation result should be referred for testing with