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detailed in Box 2 and in the medication package inserts. (A1)

- To prepare and administer CAB/RPV LA, clinicians should follow the protocols professional. (A*)
- · CAB/RPV LA should be administered by a licensed and trained healthcare Administration

test results are not available. (B2) before switching to CAB/RPV LA in any patient for whom historical resistance therefore, clinicians should obtain proviral DNA genotypic resistance testing

 Preexisting CAB and RPV RAMs have been associated with virologic failure; these patients. (A*)

feeding, clinicians should not recommend treatment with CAB/RPV LA for of this regimen in children or adolescents or during pregnancy or breast- Because there are no currently available data on the safety and efficacy at baseline. (A1)

suspected INSTI or NNRTI RAMs, excluding the K103N mutation in isolation, · Clinicians should not recommend CAB/RPV LA in patients with known or should include both the reverse transcriptase and integrase genes. (A3) resistance testing if no prior results are available; genotypic resistance testing resistance testing and ART treatment history or consider baseline genotypic previously with INSTIs or MMRTIs, clinicians should review results of prior • Before recommending CAB/RPV LA for patients who have been treated

concurrent oral therapy for HBV. (A*) be recommended for patients with active HBV coinfection without surface antibody, and HBV DNA if indicated); CAB/RPV LA should not patients' hepatitis B status (hepatitis B surface antigen, core antibody, Before recommending a switch to CAB/RPV LA, clinicians should determine

Patients for Whom CAB/RPV LA Is Not Recommended

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ALL RECOMMENDATIONS

AUGUST 2022

NYSDOH AIDS INSTITUTE HIY CLINICAL GUIDELINE

STJUDA GESSEP ADULTS USE OF INJECTABLE CAB/RPV LA AS REPLACEMENT



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resistance-associated mutation; RPV, rilpivirine. inhibitor; MNRTI, nonnucleoside reverse transcriptase inhibitor; RAM, HBV, hepatitis B virus; IM, intramuscular; INSTI, integrase strand transfer injectable long-acting cabotegravir/rilpivirine; CVF, confirmed virologic failure; Abbreviations: ART, antiretroviral therapy; CAB, cabotegravir; CAB/RPV LA,

of injectable ART to assess the patient's tolerance. if used, and within 3 days after a patient receives the initial loading dose Follow up by phone within 1 week after initiation of oral therapy lead-in,

GOOD PRACTICE

tiation of injections, with subsequent return to bimonthly (every 8 weeks) dosing. windows, a second dose should be administered ۱ month (4 weeks) following reinibimonthly (every 8 weeks) maintenance injection was missed. If outside of those second initial injection was missed or within 3 months (12 weeks) if any other therapy, restart injections as soon as possible: within 2 months (8 weeks) if the not taking oral bridging CAB/RPV misses an injection and will resume injectable Unplanned, bimonthly (every 8 weeks) injection schedule: If a patient who is

(every 4 weeks) maintenance dosing 400 mg (2 mL)/RPV 600 mg (2 mL) IM. injection of CAB 600 mg (3 mL)/RPV 900 mg (3 mL) IM once followed by monthly • If last injection was >2 months prior, resume as soon as possible with a high-dose

a maintenance dose injection of CAB 400 mg (2 mL)/RPV 600 mg (2 mL) IM. • If last injection was \$2 months (\$8 weeks) prior, resume as soon as possible with

resume injectable therapy, restart injections as follows: not taking oral bridging CAB/RPV misses a monthly injection by >7 days and will Unplanned, monthly (every 4 weeks) injection schedule: If a patient who is

the last bimonthly injection and continued until injections are resumed. 1 month (4 weeks) after the last monthly injection or 2 months (8 weeks) after coadministered medications. Oral therapy should be started approximately if it was well tolerated, with care to assess for potential drug interactions with patient's previous suppressive oral ART regimen may be considered as a bridge therapy can be taken for up to 2 consecutive months (8 weeks). Alternatively, a Planned: If a patient plans to miss or delay a scheduled injection by >7 days, oral

Managing Missed or Delayed Injections

ALL RECOMMENDATIONS (continued from P.1)

P.2

Dosing Strategy and Managing Missed Injections

- · If an oral lead-in is chosen to assess medication tolerability, the clinician should prescribe up to 4 weeks of oral CAB/RPV. (A3)
- · Once a dosing schedule is decided upon, clinicians should administer CAB/RPV LA as detailed in Table 2 or Table 3; a bimonthly (every 8 weeks) dosing schedule is preferred. (A1)
- · If a patient plans to miss or delay a monthly CAB/RPV LA injection by >7 days, the clinician should arrange for oral medication (CAB 30 mg and RPV 25 mg daily) to be available in advance in an adequate supply (up to 2 months/8 weeks) to cover the gap in injections.
- · Clinicians should resume CAB/RPV LA in patients who miss injections as detailed in Managing Missed or Delayed Injections. (A3)

Discontinuing CAB/RPV LA

- · Clinicians should discontinue CAB/RPV LA in patients with confirmed virologic failure (defined as 2 consecutive plasma HIV-1 RNA measurements ≥200 copies/mL) or evidence of INSTI or NNRTI RAMs, excluding the K103N mutation in isolation, on subsequent genotype testing. (A1)
- Clinicians should discontinue CAB/RPV LA in patients with evidence of INSTI or NNRTI RAMs (excluding the K103N mutation in isolation) on subsequent proviral DNA-based genotype testing (which may be performed for another clinical indication or following a viral blip), regardless of viral load suppression status, including an undetectable viral load (defined as plasma HIV-1 RNA measurement <50 copies/mL). (B3)
- · When extended or frequent gaps occur between injections, resulting in prolonged periods of subtherapeutic drug concentrations, the risk of drug resistance increases; to avoid this risk, clinicians should encourage patients to adhere to the injection schedule and should switch to oral therapy for patients who cannot maintain the injection schedule. (A3)
- · If CAB/RPV LA is discontinued, the clinician should initiate a fully suppressive oral ART regimen no later than 1 month (4 weeks) following the final CAB/ RPV LA monthly injection or 2 months (8 weeks) following final CAB/RPV LA bimonthly injection. (A2)

Laboratory Testing and Monitoring

· Clinicians should perform baseline and routine monitoring of patients receiving injectable ART according to the recommendations in the following NYSDOH Al guidelines (A3): Virologic and Immunologic Monitoring in HIV Care and Laboratory Monitoring for Adverse Effects of ART.

BOX 1: Summary of Benefits, Limitations, and Risks of CAB/RPV LA

Benefits:

- Improved patient satisfaction
- · Monthly (every 4 weeks) or bimonthly (every 8 weeks) administration
- Directly observed
- · Noninferior to oral ART
- · Potential option for patients who have ongoing substance use, mental health concerns, neurocognitive disorders, disclosure concerns, or other challenges associated with adherence to oral ART, including difficulty swallowing pills
- · Removes the daily reminder of HIV status that is associated with taking pills

Potential Risks:

- Potential injection site reactions and other adverse effects, including pyrexia
- Potential for resistance to develop if doses are missed outside the 7-day window period, given the long half-life ("tail") of CAB and RPV

- · Cannot be used if a patient has prior resistance to INSTIs or NNRTIs, excluding the K103N mutation in isolation
- $\boldsymbol{\cdot}$ Lack of data on use during pregnancy or breastfeeding and in children and
- Does not treat HBV coinfection
- · Lack of data on use in patients with prior virologic failure
- · Treatment with 4 weeks of oral CAB and RPV (oral lead-in) may be used before the first injection to assess for unexpected reactions or allergies to CAB or RPV
- Requires oral medications as bridging therapy when injections are missed
- Medication storage requirements (2° C to 8° C [36° F to 46° F])
- Requires 6 to 12 in-person visits with a healthcare provider per year



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

This 1/4-Folded Guide is a companion to the New York State Department of Health AIDS Institute guideline Use of Injectable CAB/RPV LA as Replacement ART in Virally Suppressed Adults. The full guideline is available at www.hivguidelines.org.

| TABLE 2: Optional Lead-in, Initiation, and Maintenance for MONTHLY (every 4 weeks) CAB/RPV LA Dosing | | | |
|---|--|--|--|
| Comments | Dosing and Administration | gnimi™ | |
| ni-bael noitacibem la TO | CAB 30 mg/RPV 25 mg once daily by mouth with a meal x 4 weeks | Optional oral lead-in: Therapy initiation: Week O (aka month O) | |
| no ni-basi lead of oral last day of oral lead-in or prior suppressive ART regimen | noiɔɔə[ni Ml (Jm ɛ) gm ooو VqЯ\(Jm ɛ) gm ooə aA⊃ | Меек ф (ака month 1) | |
| Maintenance dose: Administer within 7 days before or after scheduled date (see Managing Missed or Delayed Injections) | noitoəjni MI (Jm s) gm 000 V4A/(Jm s) gm 004 8Aጋ | Week 8 (aka month 2) and every 4 weeks (aka every 1 month) thereafter | |

| TABLE 3: Optional Lead-in, Initiation, and Maintenance for BIMONTHLY (every 8 weeks) CAB/RPV LA Dosing | | | |
|---|--|--|--|
| Comments | Dosing and Administration | gnimiT | |
| ni-beəl noitezibəm leาO | CAB 30 mg/RPV 25 mg once daily by mouth with a meal x 4 weeks | Optional oral lead-in: Therapy initiation: Week o (aka month o) | |
| Initiation dose: Administer on last day of oral lead-in or prior suppressive ART regimen | noiɔɔəjni MI (Jm ɛ) gm ooو V٩٨/(Jm ɛ) gm ooə ৪A⊃ | Меек ф (ака month 1) | |
| Maintenance dose: Administer within 7 days before or after scheduled date (see Managing Missed or Delayed Injections) | noiɔɔəjni MI (Jm ɛ) gm ooو V٩٨/(Jm ɛ) gm ooə ฝA⊃ | Week 8 (aka month 2) | |
| Maintenance dose: Administer within 7 days before or after scheduled date (see Managing Missed or Delayed Injections) | noiɔsejni MI (Jm ɛ) gm ooe V٩٨/(Jm ɛ) gm ooe ð ð | Week 16 (aka month 4) and every 8 weeks (aka every 2 months) thereafter | |

[a] AJ V9A/BAD to seso of cab/RPV LA BOX 2: Preparation and Administration of Initial and

- least 15 minutes and for a maximum of 6 hours. 1. Bring the vials [a] of CAB LA and RPV LA to room temperature for at
- syringes, they must be used within 2 hours. 2. Prepare 2 syringes [a]. Once CAB/RPV LA has been drawn into the
- 10 seconds before aspiration. 11/2 inch hypodermic needle [b]. Shake the vial vigorously for at least 3. For aspiration, use a vial adaptor or general-use sterile 21 gauge \times
- an appropriate injection needle length. A patient's build or body mass index may be considered when selecting needle [b]. Administer the injection within 2 hours of syringe preparation. 4. For injection, use a general-use sterile كع gauge × ١١/١ inch hypodermic
- care that the compound is not injected into a vein. (preferred) or dorsogluteal (upper-outer quadrant of the buttock), with 5. Inject into the gluteus medius muscle [c] at a 90° angle, ventrogluteal

- for the initial dose and 2 mL vials/syringes for maintenance doses. while preparing syringes and injecting compounds. Use 3 mL vials/syringes maintenance doses of CAB/RPV LA. Follow sterile technique at all points a. The same preparation and administration are used for both initial and
- vessels, or bone. into the muscle mass without penetrating underlying nerves, blood b. The hypodermic needle must be long enough to inject the medication
- sides or on the same side, 2 cm apart. contralateral gluteus medius muscle. Injections can be given on opposite c. Inject CAB LA into the gluteus medius muscle and RPV LA into the

d. For more detail, see instructions for use in the CAB/RPV LA package insert.

- because of injection site pain. arm and 2% in the bimonthly injection arm discontinued treatment

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Preferred

потто

Dosing

Bimonthly

(every 8 weeks)

Rare

9

- arm and 2% in the bimonthly injection arm had CVF. b. In the ATLAS-2M trial, <1% of participants in the monthly injection
 - Notes:

Patient satisfaction

[6] nieq ətiz noitəə[n]

Required annual visits

If CVF

Staffing, administration time,

Risk of CAB and/or RPV RAMs

CVF despite on-time dosing [b]

Advantage or Limitation

Dosing Strategies

a. In the ATLAS-2M trial, 3% of participants in the monthly injection

More

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Rare

15

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Baizod (ενειλ τ weeks)

Monthly

TABLE 4: Advantages and Limitations of CAB/RPV LA