

Written Testimony: Arizona Health Care Cost Containment System (AHCCS), *Apretude*

This document is a written testimony intended to summarize the key points below required for the Arizona Health Care Cost Containment System (AHCCS) review of *Apretude* (cabotegravir extended-release injectable suspension [CAB LA]) for intramuscular (IM) use.

Indication

Apretude is indicated in at-risk adults and adolescents weighing at least 35 kg for pre-exposure prophylaxis (PrEP) to reduce the risk of sexually acquired HIV-1 infection.^(PI,2.2.1) Individuals must have a negative HIV-1 test prior to initiating *Apretude* (with or without an oral lead-in with oral cabotegravir) for HIV-1 PrEP.

Boxed Warnings (see attached Prescribing Information, Section 5, for further information)

Individuals must be tested for HIV-1 infection prior to initiating *Apretude* or oral cabotegravir, and with each subsequent injection of *Apretude*, using a test approved or cleared by the FDA for the diagnosis of acute or primary HIV-1 infection.^(PI, 2.1.1)

Dosing

Prior to initiating *Apretude*, an oral lead-in therapy may be used for about one month to assess the tolerability of *Apretude*.^(PI, 2.4.1) *Apretude* is for IM gluteal injection only. Initiate *Apretude* with a single 600 mg (3 mL) injection given 1 month apart for 2 consecutive months on the last day of an oral lead-in if used or within 3 days and continue with the injections every 2 months thereafter.

Contraindications

Apretude is contraindicated in patients: unknown or positive HIV-1 status; with previous hypersensitivity reaction (HSR) to CAB; coadministration with drugs where significant decreases in CAB plasma concentrations may occur.^(PI, 6.6.1)

Warnings and Precautions (see attached Prescribing Information, Section 5, for further information)^(PI,6.7.1)

- Use *Apretude* as part of comprehensive management strategy to reduce the risk of HIV-1 acquisition.
- Potential risk of developing resistance to *Apretude* if an individual acquires HIV-1 either before or while taking *Apretude* or following discontinuation of *Apretude*. Reassess risk of HIV-1.
- Residual concentrations of CAB may remain in the systemic circulation of individuals up to 12 months or longer.
- HSRs have been reported with other INSTIs. Discontinue *Apretude* immediately if signs or symptoms of HSRs develop.
- Hepatotoxicity has been reported in patients receiving CAB. Clinical and laboratory monitoring should be considered.
- Depressive disorders have been reported with *Apretude*. Prompt evaluation is recommended.

Efficacy Data

- The efficacy of *Apretude* to reduce the risk of acquiring HIV-1 infection is supported by data from two Phase 3 randomized, multinational, double-blinded, double-dummy trials: HPTN 083 [NCT02720094] and HPTN 084 [NCT03164564].^(PI,26.7.1)
- Patients were randomized to receive daily oral CAB 30 mg + daily oral TDF/FTC placebo for up to 5 weeks, followed by CAB LA 600 mg IM every 4 weeks x2 doses followed by CAB LA 600 mg every 8 weeks thereafter + daily oral TDF/FTC placebo OR daily oral TDF/FTC 300 mg/200 mg and oral CAB placebo for 5 week, followed by daily oral TDF/FTC 300 mg/200 mg + CAB LA placebo IM every 4 weeks x2 doses then every 8 weeks thereafter.^(PI,27.2.1)
- HPTN 083, a non-inferiority study, evaluated CAB LA vs. daily oral tenofovir disoproxil fumarate/emtricitabine (TDF/FTC) for PrEP in HIV-1 uninfected cisgender men and transgender women who have sex with men.^{(PI, 27.3.1)(Landovitz,2.4.1)} The primary endpoint was the rate of incident HIV-1 infections.
- CAB LA was statistically superior to TDF/FTC at preventing HIV acquisition (HR=0.34, 95% CI 0.18-0.62, $P<0.001$).^{(PI,27.5.3)(Landovitz,6.1.1)} There were a total of 52 incident HIV infections with 13 incident infections in the CAB LA arm vs 29 incident infections in the TDF/FTC arm. Further testing revealed 1 of the infections in the CAB LA arm to be prevalent then yielding a 69% reduction in the risk of HIV-1 incident infection relative to TDF/FTC (HR=0.31, 95% CI 0.16-0.58, $P=0.0003$).
- Based on a random subset of 390 patients receiving TDF/FTC, tenofovir concentrations were detectable (>0.31 ng/mL) in 86% of patients and indicative of daily TDF (>40 ng/mL) in 74.2% of patients.^(Landovitz,5.4.1) Adherence was 91.5% of person-years as defined as injections having been received with a delay of <2 weeks.
- Overall, 81.4% of patients who received CAB LA experienced at least 1 injection site reaction (ISR) during the course of the study.^(Landovitz,7.4.1) The most common ISR reported was pain (60.8%); the events began a median of 1 day (IQR, 0 to 2) after injection and lasted a median of 3 days (IQR, 2 to 6).
- HPTN 084, a superiority study, evaluated CAB LA vs. daily oral TDF/FTC for PrEP in HIV-1 uninfected cisgender women. The primary endpoint was the rate of incident HIV-1 infections.^(PI,29.1.1)
- CAB LA was statistically superior to TDF/FTC at preventing HIV acquisition (HR=0.12, 95% CI 0.05-0.31).^{(PI,29.3.3)(Delany-Moretlwe,1781.1.1)} There were a total of 40 incident HIV infections with 4 incident infections in the CAB LA arm and 36 in the TDF/FTC arm. Further testing revealed 1 of the infections in the CAB LA arm to be prevalent then yielding a 90% reduction in the risk of HIV-1 incident infection relative to TDF/FTC (HR=0.10, 95% 0.04-0.27; $P<0.0001$).
- Based on a random subset of 405 patients receiving TDF/FTC, tenofovir concentrations were detectable (>0.31 ng/mL) in 55.9% of patients and indicative of receipt of daily TDF (>40 ng/mL) in 42.1% of the plasma samples tested.^(Delany-Moretlwe,1785.2.1) Adherence to CAB LA was 93.1%.
- ISRs were reported in 38% of patients in the CAB LA arm compared to 10.8% in the TDF/FTC arm.^(Delany-Moretlwe,1785.6.1) The most common ISR symptom was pain and most injection site reactions were reported at the first injection and diminished over time.

Treatment Guidelines

- *Apretude* is recommended for HIV prevention in adults reporting sexual behaviors that place them at substantial ongoing risk of HIV exposure and acquisition in the CDC (IA rating) guidelines.^(CDC,2.4.1)
- *Apretude* is recommended as PrEP for cisgender men and transgender women who have sex with men in the IAS-USA (AIa rating) guidelines.^(Saag,1662.Box4)

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References: 1. ViiV Healthcare Local Label; 2. Landovitz R, et al. *N Engl J Med.* 2021;385(7):595-609; 3. Delany-Moretlwe S, et al. *Lancet* 2022; 399(10337):1779-1789. 4. US Public Health Service. CDC. Available at: <https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2021.pdf>. Accessed August 3, 2022. 5. Saag MS, et al. *JAMA.* 2020;324(16):1651-1669.