



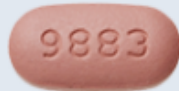
HIV Treatment Pipeline

Combination Agents



Tenofovir disoproxil / Emtricitabine / Efavirenz

(tenofovir disoproxil fumarate /
emtricitabine / efavirenz)



Biktarvy

(bictegravir / tenofovir alafenamide /
emtricitabine)



CURRENTLY NOT PHARMAC FUNDED



Cimduo

(lamivudine / tenofovir disoproxil
fumarate)



CURRENTLY NOT PHARMAC FUNDED



Complera

(rilpivirine / tenofovir disoproxil fumarate
/ emtricitabine)



CURRENTLY NOT PHARMAC FUNDED



Delstrigo

(doravirine / lamivudine / tenofovir
disoproxil fumarate)



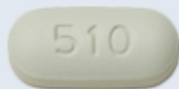
CURRENTLY NOT PHARMAC FUNDED



Dovato

(dolutegravir / lamivudine)

PHARMAC FUNDED FROM 01/05/24

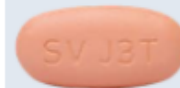


Genvoya

(elvitegravir / tenofovir alafenamide /
emtricitabine / cobicistat)



CURRENTLY NOT PHARMAC FUNDED



Juluca

(dolutegravir/rilpivirine)



CURRENTLY NOT PHARMAC FUNDED



Odefsey

(rilpivirine / emtricitabine / tenofovir
alafenamide)



CURRENTLY NOT PHARMAC FUNDED



Stribild

(elvitegravir / cobicistat / emtricitabine /
tenofovir)



CURRENTLY NOT PHARMAC FUNDED



Symtuza

(darunavir / cobicistat / emtricitabine /
tenofovir alafenamide)



CURRENTLY NOT PHARMAC FUNDED



Symfi Lo

(efavirenz / lamivudine / tenofovir
disoproxil fumarate)



CURRENTLY NOT PHARMAC FUNDED



Triumeq

(dolutegravir / abacavir / lamivudine)



CURRENTLY NOT PHARMAC FUNDED

Some people with HIV have difficulty taking treatment every day because of at least the following issues:

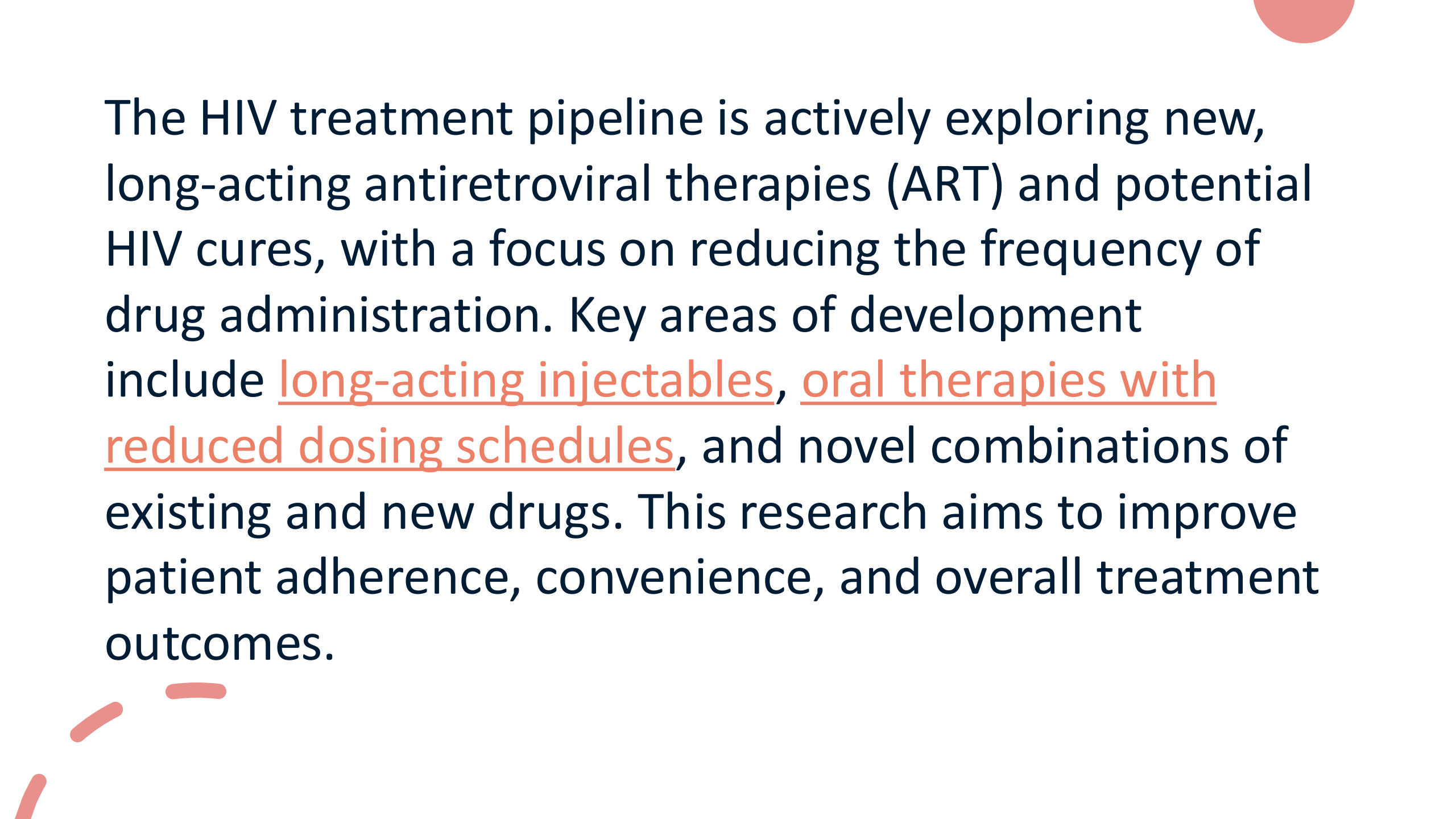
difficulty swallowing pills

difficulty taking pills every day (and worried about missing a dose)

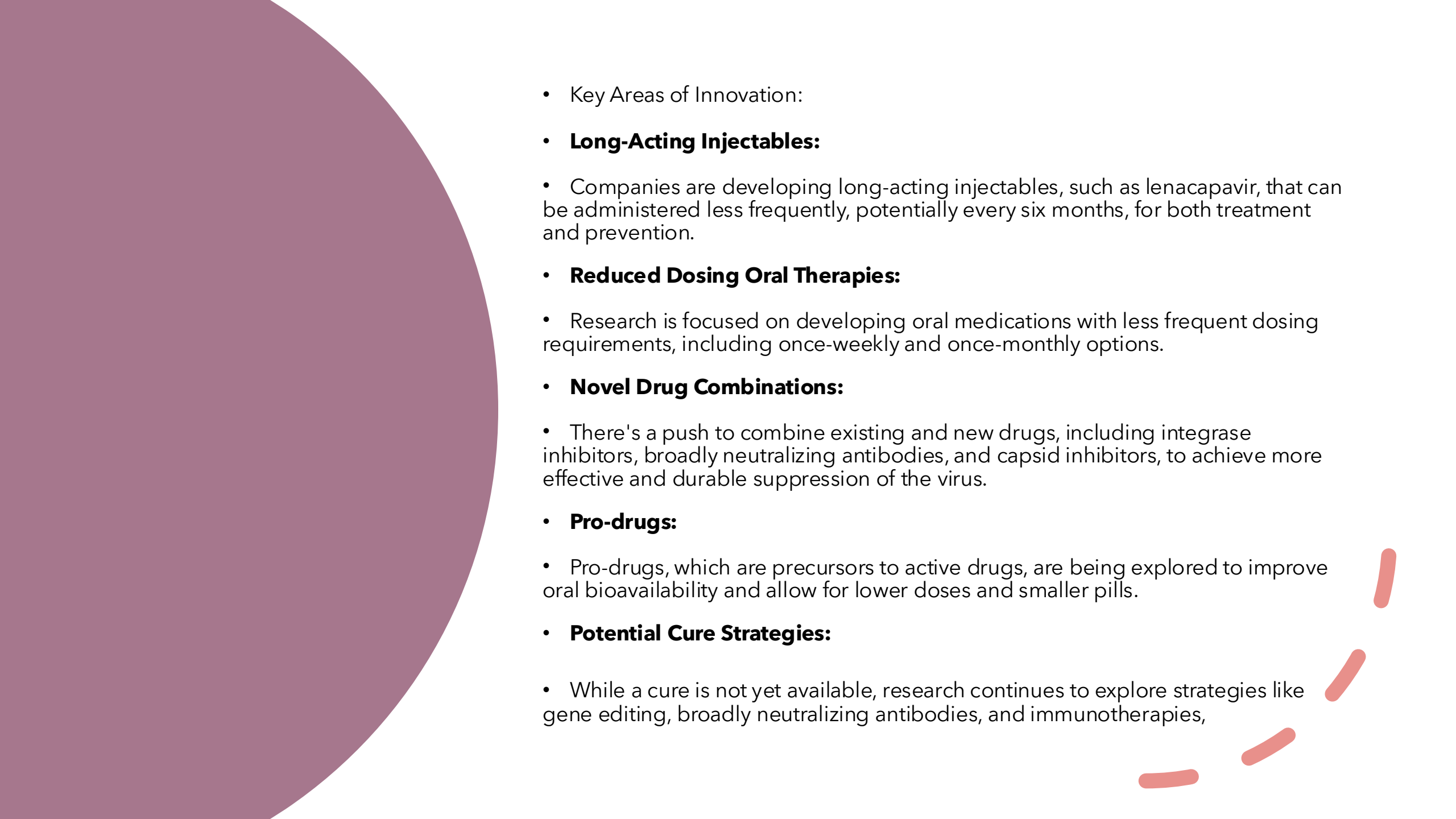
difficulty storing pills (particularly if homeless)

daily pill-taking is an unwelcome reminder of HIV

inadvertent disclosure if someone sees their medicines



The HIV treatment pipeline is actively exploring new, long-acting antiretroviral therapies (ART) and potential HIV cures, with a focus on reducing the frequency of drug administration. Key areas of development include long-acting injectables, oral therapies with reduced dosing schedules, and novel combinations of existing and new drugs. This research aims to improve patient adherence, convenience, and overall treatment outcomes.

- 
- Key Areas of Innovation:
 - **Long-Acting Injectables:**
 - Companies are developing long-acting injectables, such as lenacapavir, that can be administered less frequently, potentially every six months, for both treatment and prevention.
 - **Reduced Dosing Oral Therapies:**
 - Research is focused on developing oral medications with less frequent dosing requirements, including once-weekly and once-monthly options.
 - **Novel Drug Combinations:**
 - There's a push to combine existing and new drugs, including integrase inhibitors, broadly neutralizing antibodies, and capsid inhibitors, to achieve more effective and durable suppression of the virus.
 - **Pro-drugs:**
 - Pro-drugs, which are precursors to active drugs, are being explored to improve oral bioavailability and allow for lower doses and smaller pills.
 - **Potential Cure Strategies:**
 - While a cure is not yet available, research continues to explore strategies like gene editing, broadly neutralizing antibodies, and immunotherapies,

We have a number of potential medicines in development for the treatment and prevention of HIV:

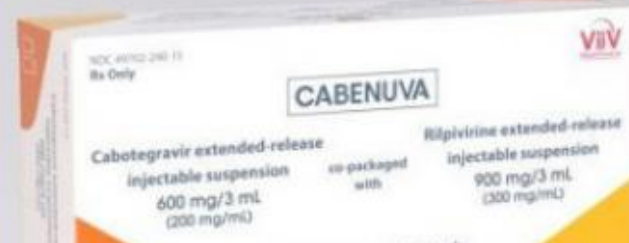
Clinical development pipeline

Compound number / Generic name / Brand name	Indication	Phase	Mode of action / Vaccine type
VH3810109 †	HIV	Phase II	HIV broadly neutralizing antibody
VH3739937	HIV	Phase II	HIV maturation inhibitor
VH4011499	HIV	Phase II	HIV capsid protein inhibitor
VH4524184 †	HIV	Phase II	HIV integrase inhibitor
GSK1265744 cabotegravir	HIV	Phase I	HIV integrase inhibitor

†In-license or other alliance relationship with third party



- Examples of Drugs in Development:
- **Lenacapavir**: A long-acting injectable which inhibits the HIV-1 capsid is being developed by [Gilead Sciences](#) for both treatment (Monthly) and prevention (6 Monthly).
- **Islatravir**: An investigational oral nucleoside reverse transcriptase translocation inhibitor (NRTTI) being studied in combination with lenacapavir.
- **GS-1720**: A once-weekly integrase inhibitor being studied by Gilead.
- **GS-4182**: A lenacapavir pro-drug being studied by Gilead.
- **GS-1219 and GS-3242**: Long-acting injectable integrase inhibitors being explored by Gilead as potential partners for lenacapavir.
- MK 8527 - a once monthly oral NNRTTI for prevention by MSD



A little birdie told me.

CABENUVA is an injectable treatment

Stock photo. Posed model.



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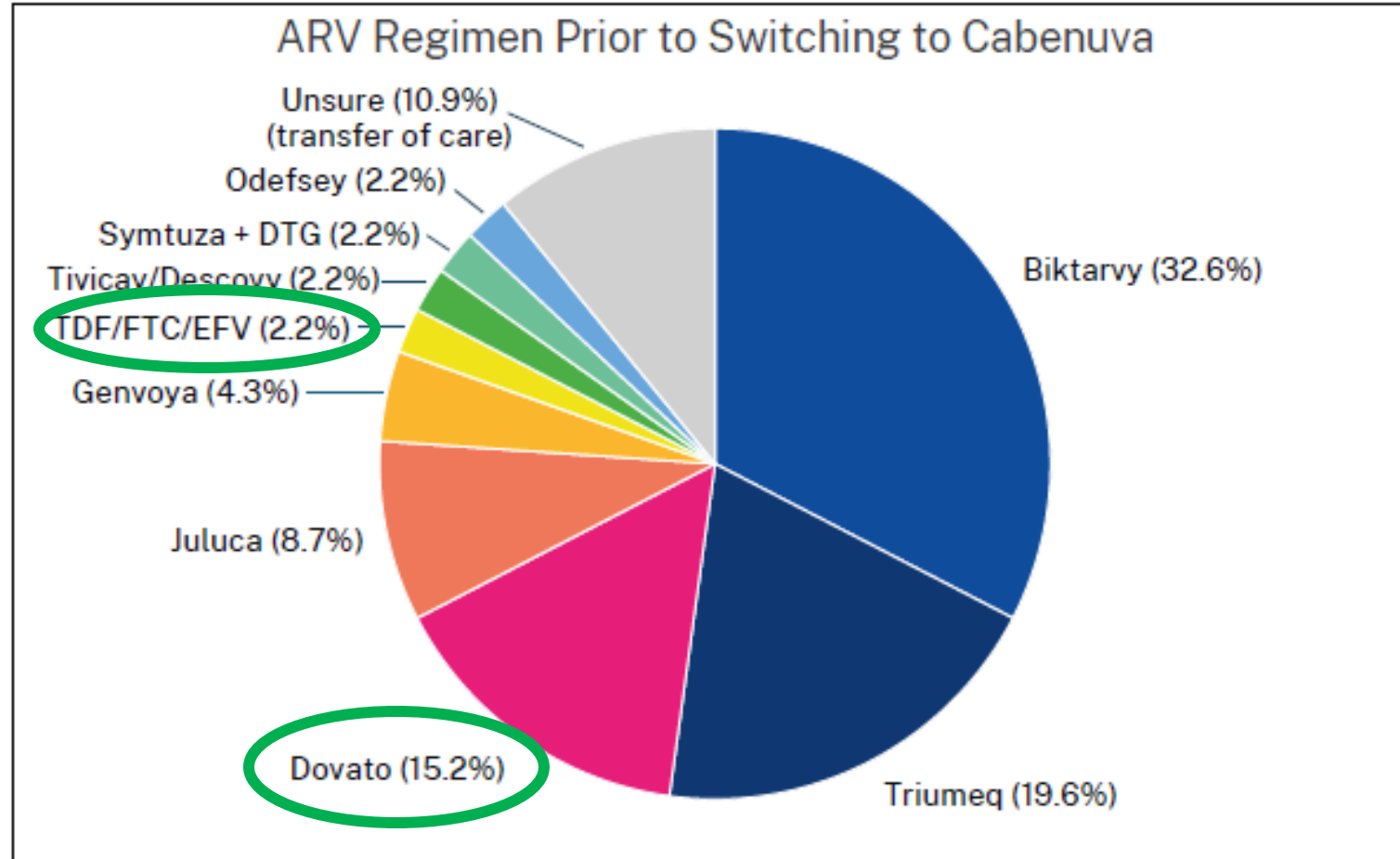


January 21, 2021 By [Liz Highleyman \(/author/liz-highleyman\)](#)

Long Acting Cabotegravir/Rilpivirine Uptake, Adherence and Discontinuation in a High Case Load Publicly Funded Sexual Health Service in Central Sydney, New South Wales.

Bowden B¹, Lim Y^{1,2}, Acklom, K¹.

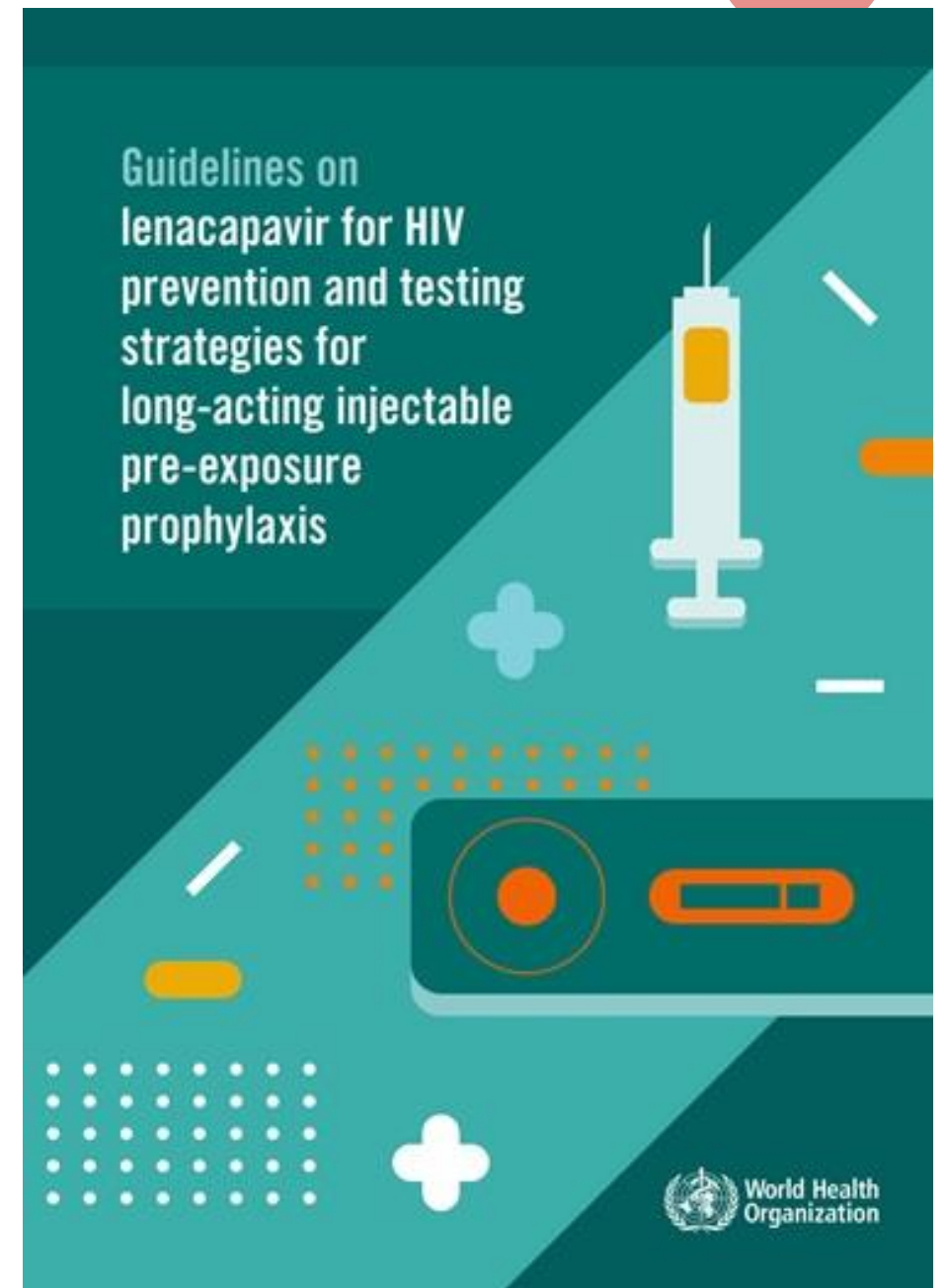
¹The Albion Center, South-Eastern Sydney Local Health District, Sydney, NSW Australia ²Port Kembla Sexual Health Service, Illawarra Shoalhaven Local Health, Wollongong, NSW, Australia



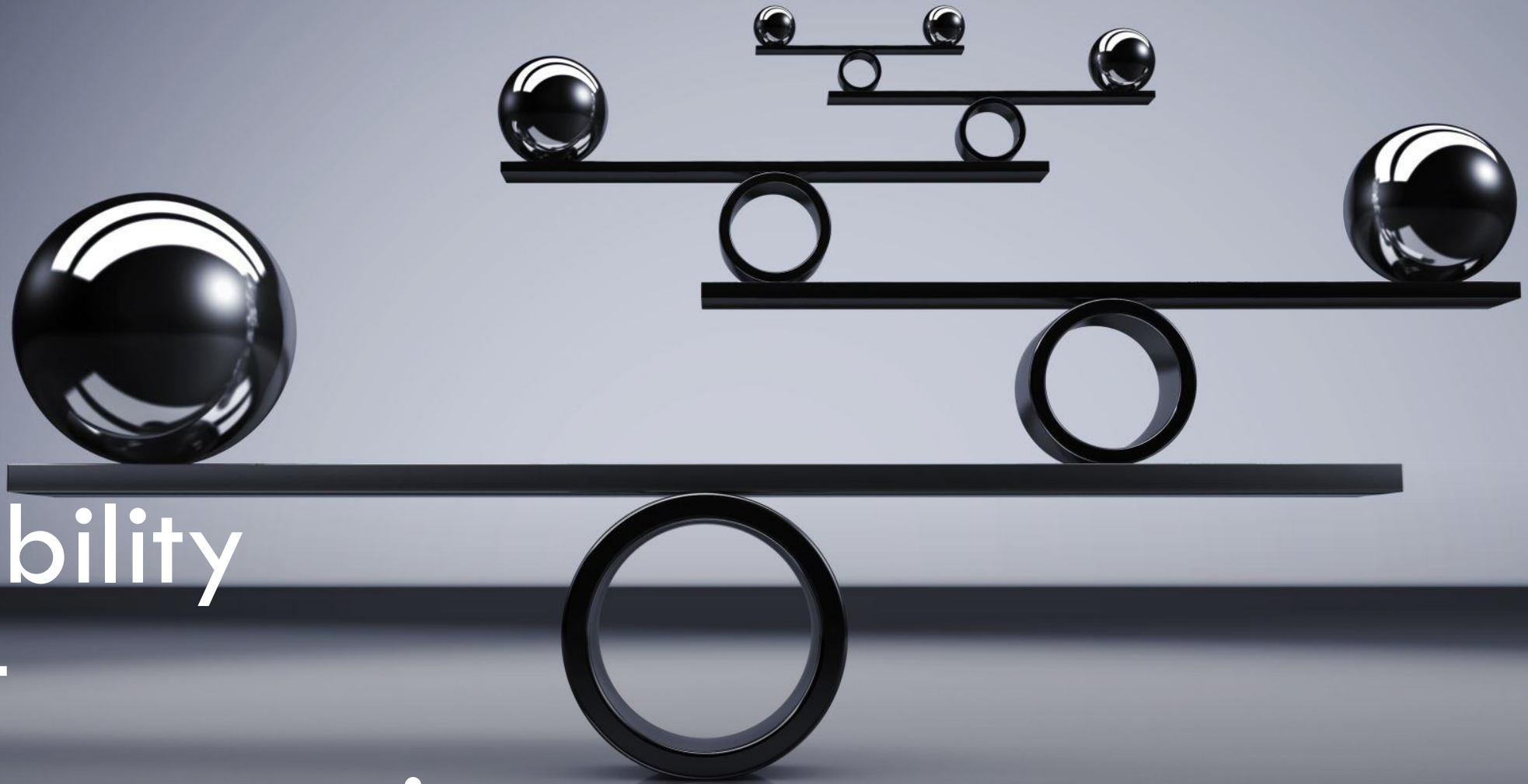
Clients who commenced/received Cabenuva from 1 June 2022 to 31 March 2024 were included in this retrospective audit to assess Cabenuva uptake, adherence and discontinuation



Long-acting injectable cabotegravir + rilpivirine can be used as an alternative switching option for adults and adolescents with undetectable HIV viral load on oral ART and without active hepatitis B infection. (Conditional recommendation, moderate-certainty evidence)



Eligibility
Cost
Implementation



Long-Acting Injectable HIV Treatment Tool

Only one long-acting (LA) injectable treatment option is TGA-approved in Australia: long-acting cabotegravir + rilpivirine (CAB + RPV LA).

CAB + RPV LA can only be prescribed by HIV s100 prescribers. It must be the sole PBS-subsidised prescribed therapy for a patient living with HIV.

POTENTIAL BENEFITS



LA injectable HIV treatment can be beneficial for patients who:

- have disclosure concerns related to storing or taking oral HIV medication.
- experience pill fatigue or burden.
- have a job or lifestyle that impedes oral medication adherence (e.g. frequent travellers, shift workers).
- do not want to be reminded about their HIV status on a daily basis.
- want to avoid taking medication orally.

Overall treatment satisfaction remains very high with <5% of patients switching back to oral therapy.^[1]

IS YOUR PATIENT SUITABLE?



- ✓ They are an adult.
- ✓ They have previously received PBS-subsidised therapy for HIV.
- ✓ They are virologically suppressed: HIV-1 RNA <50 copies/mL.
- ✓ They do NOT have known or suspected treatment resistance to CAB or RPV.
Note: Some NNRTI resistance mutations (e.g. K103N) will not affect RPV susceptibility. Expert advice may be valuable, see also [NNRTI Resistance Notes - HIV Drug Resistance Database](#)
- ✓ They have NO contraindicated drug interactions (note that intramuscular RPV can be used with PPI therapy)
 - **Anticonvulsants:** phenytoin, phenobarbital, carbamazepine and oxcarbazepine
 - **Antimycobacterials:** rifabutin, rifampicin, rifapentine
 - **Glucocorticoids:** systemic dexamethasone (except as a single dose treatment)
 - **St John's-wort** (*Hypericum perforatum*)
- ✓ They do NOT have chronic hepatitis B.
- ✓ They are NOT currently pregnant or breast/chestfeeding.
Note: There are no studies of CAB+RPV LA in pregnant people. This treatment is listed under the [B1 category](#) and, therefore, should only be used during pregnancy if the expected benefit justifies the potential risk to the fetus
- ✓ They can incorporate ongoing 2-monthly clinic visits into their life and understand the implications of missed or delayed injections.

DISCUSS WITH YOUR PATIENT



- Potential injection site reactions and side effects
- The injection schedule
- Missed injection protocol

See next page for more information >

GLOSSARY:

TGA: Therapeutic Goods Administration

PBS: Pharmaceutical Benefits Scheme

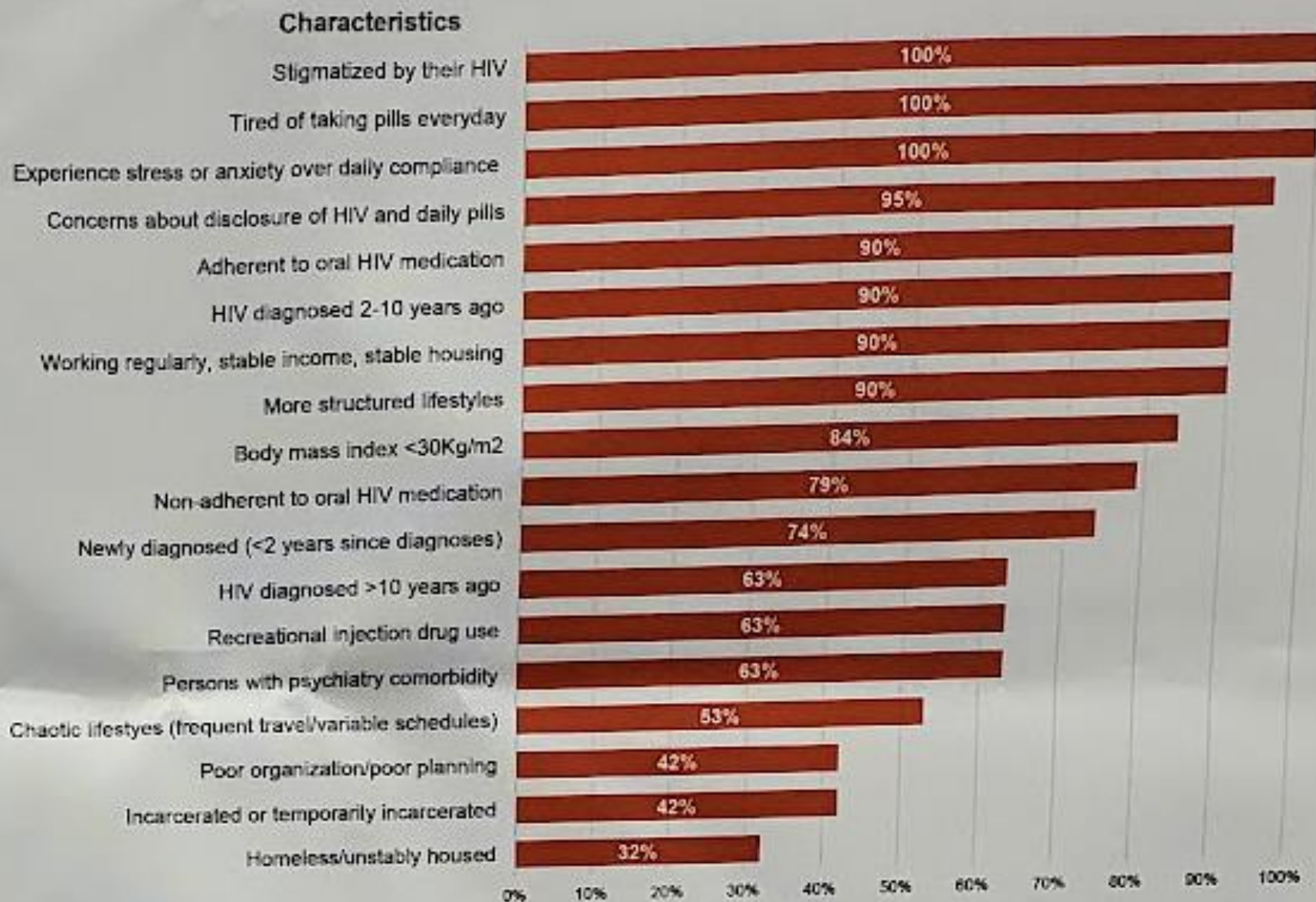
NNRTI: Non-nucleoside reverse transcriptase inhibitor

PPI: Proton-pump inhibitor

INSTI: Integrase strand transfer inhibitor

NSAID: Non-steroidal anti-inflammatory drugs

Figure 4. Physicians' Perception of Eligible Persons Appropriate for CAB+RPV LA





CABOTEGRAVIR (&) RILPIVIRINE

Source S100 HSD Community Access

Body System ANTIINFECTIVES FOR SYSTEMIC USE > ANTIVIRALS FOR SYSTEMIC USE > DIRECT ACTING ANTIVIRALS

▸ Note

▸ ⚠ Authority Required (STREAMLINED)

Code & Prescriber	Medicinal Product Pack (Name, form & strength and pack size)	Max qty packs	Max qty units	No. of repeats	DPMQ	Max Safety Net	General Patient Charge
12937X  	CABOTEGRAVIR (&) RILPIVIRINE cabotegravir 600 mg/3 mL modified release injection [3 mL vial] (&) rilpivirine 900 mg/3 mL modified release injection [3 mL vial], 1 pack (PI, CMI)	1	1	5	\$2828.88	\$31.60	\$31.60
Available brands							
Cabenuva							



Section B - Therapeutic Groups > Search: dovato

Community Schedule

[Rules and glossary](#)

[PSO List](#)

[Extemp](#)

< Strand Transfer Inhibitors ^

Dolutegravir with lamivudine



- Special Authority [SA2139 \[PDF\]](#) -- Retail pharmacy

Tab 50 mg with lamivudine 300 mg

Brand

✓ Dovato

Pharmacode

2674335 

Subsidy

\$1090.00

Measure / Qty

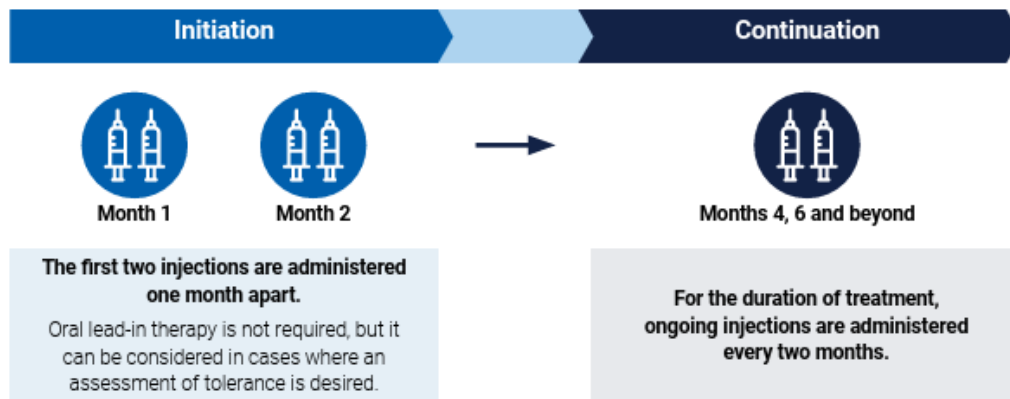
per 30

ViiV HEALTHCARE EXTENDS VOLUNTARY LICENSING AGREEMENT WITH MEDICINES PATENT POOL TO ENABLE ACCESS TO INNOVATIVE LONG-ACTING INJECTABLE HIV TREATMENT

- / Agreement allows manufacturers to develop, manufacture and supply generic long-acting injectable cabotegravir (CAB LA) for treatment in 133 countries*
 - / Builds on the voluntary licence for CAB LA for HIV pre-exposure prophylaxis (PrEP), enabling increased access to innovative long-acting injectables for HIV treatment*
-

This includes all least-developed, low-income, lower middle-income and Sub-Saharan African countries, as well as countries where ViiV does not have patent rights for cabotegravir.

THE INJECTION SCHEDULE [2,3]



- It's important that clinicians and patients set a **consistent target injection date**. Opting for the same date or day each month can enhance patient recall. E.g. Every 10th or every second Thursday of the month.
- There is a 'window period' allowing for injections to be given up to 7 days before or 7 days after the target injection date.
- If the patient receives their injection within this window period, the next injection should still be scheduled for the original target injection date.



- Target injection date
- Window period

MISSED INJECTIONS

(after initiation injections)



Planning missed injection/s (e.g. long overseas trip)	<2 months break: Commence oral CAB & RPV on the next target injection date
	>2 months break: Commence alternative oral HIV treatment on the next target injection date
Unplanned missed injection/s	<3 months since last injection: Resume injections as soon as possible and continue with the 2-monthly injection schedule.
	>3 months since last injection: Repeat initiation injections as soon as possible (1 month apart for 2 consecutive months) before resuming the 2-monthly injection schedule.
After an unplanned missed injection, the clinician and patient should jointly reassess if this treatment remains suitable.	

POSSIBLE SIDE EFFECTS



- The most frequently reported side effects for this treatment are injection site pain/a hardened lump (76%), headache (7%), and pyrexia (7%). [2,4]
- Less common side effects are outlined in the [Consumer Medicine Information summary](#). [5]
- Injection site pain can be reduced by starting paracetamol or NSAID therapy the day before the injection and continuing as needed for 2-3 days afterwards.
- Cold packs can also be used, although this is not routine.
- Patients should avoid strenuous gluteal exercises for 12-24 hours after an injection.

PREPARE YOUR PRACTICE



Ensure your practice or clinic is prepared to offer this treatment, considering:

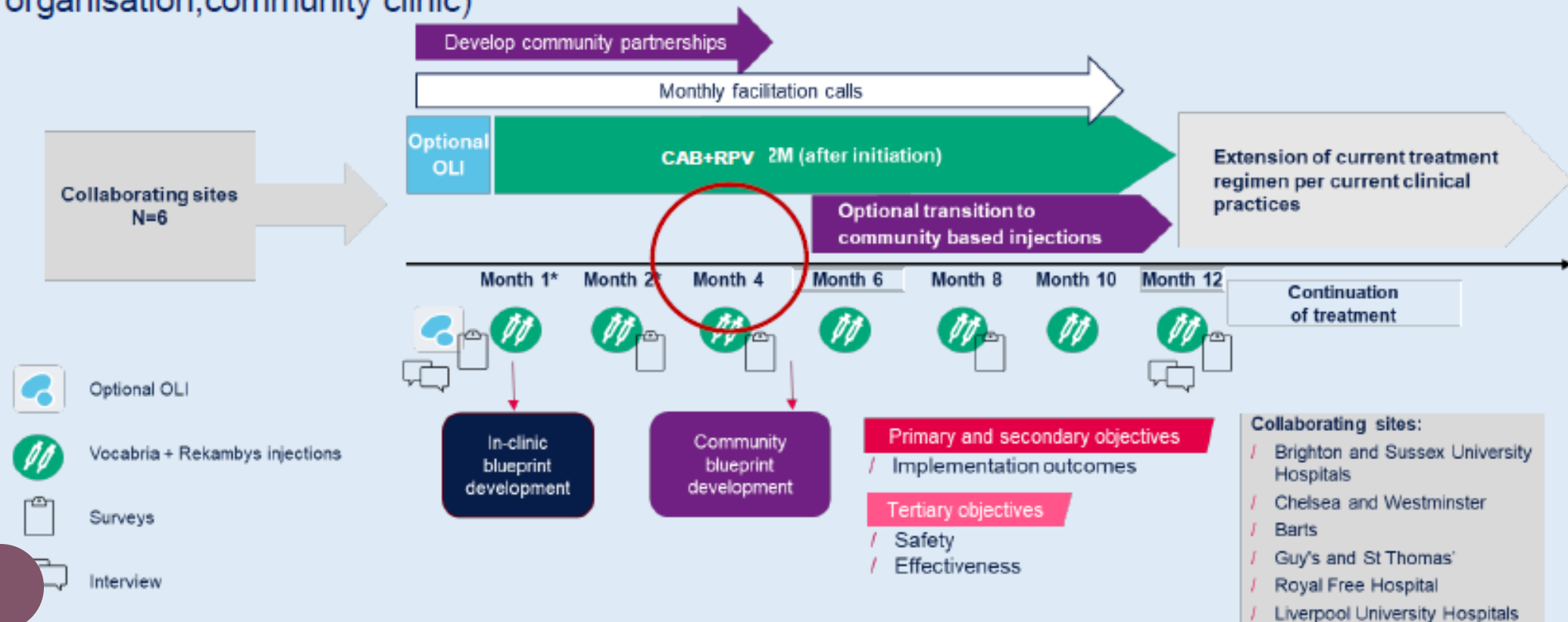
- staff training, awareness and protocols.
- the supply process for treatment availability.
- an efficient patient booking and recall system.

REFERENCES:

1. Ramgopal MN, et al. Efficacy, safety, and tolerability of switching to long-acting cabotegravir plus rilpivirine versus continuing fixed-dose bictegravir, emtricitabine, and tenofovir alafenamide in virologically suppressed adults with HIV, 12-month results (SOLAR): a randomised, open-label, phase 3b, non-inferiority trial. *Lancet HIV* 2023 Sep;10(9):e566-e577.
2. Australian Government Therapeutics Goods Administration. PDF. Australian Product Information CABENUVA cabotegravir prolonged-release suspension for injection and rilpivirine prolonged-release suspension for injection [cited 11 March 2024]. Available from: <https://www.tga.gov.au/resources/artg/323784>
3. ViV Healthcare. CABENUVA Dosing & Administration. <https://cabenuvahcp.com/dosing-and-administration/dosing/#dosing-guide>. Published January 2024. Accessed 11 March 2024.
4. Overton ET, et al. Long-Acting Cabotegravir and Rilpivirine Dosed Every 2 Months in Adults With Human Immunodeficiency Virus 1 Type 1 Infection: 152-Week Results From ATLAS-2M, a Randomized, Open-Label, Phase 3b, Noninferiority Study. *Clin Infect Dis*. 2023 May 3;76(9):1646-1654.
5. Australian Government Therapeutics Goods Administration. PDF. CABENUVA Consumer Medicine Information (CMI) summary. [cited 14 March 2024]. Available from: <https://www.tga.gov.au/resources/artg/323784>

Methods

- ILANA is a 1-year implementation science study,
- Participants with viral suppression switched to 2-monthly injectable CAB+RPV
- M1-6 was delivered in clinic with an option to continue M6-12 in the clinic or community (eg home, community organisation, community clinic)



Results – Preferences/concerns



- At M4, 95% preferred injectables over oral medication
- Top 4 concerns with oral regimen at baseline:
 - having to hide medication from others (43%)
 - daily reminder of HIV status (38%)
 - problems remembering to take pills (20%)
 - inconvenience (13%)
- Top 3 reasons for preferring injection at M4 :
 - convenience (72%)
 - reduced worries about remembering pills (67%)
 - not having to carry medication (67%)



3 APRIL 2025

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Rule of Two for faster access to medicines



HON DAVID SEYMOUR

Health

Associate Health Minister David Seymour is welcoming Cabinet’s decision to enable medicines to be approved in less than 30 days if the product has approval from two recognised overseas jurisdictions.

