Frequent visits and viral load timing delay differentiated service delivery enrolment and increase burden during the first year of HIV treatment: A policy review of 15 countries

L. Wilkinson^{1,2}, L. Golob³, A. Grimsrud⁴

¹University of Cape Town, Centre for Infectious Epidemiology and Research, Cape Town, South Africa ²International AIDS Society, Johannesburg, South Africa ³International AIDS Society, Geneva, Switzerland, ⁴International AIDS Society, Cape Town, South Africa

BACKGROUND / INTRODUCTION

The first year of antiretroviral therapy (ART) typically involves frequent health facility visits and high rates of disengagement. With the adoption of dolutegravir-based regimens, the World Health Organization (WHO) recommends reviewing the first viral load result by month six after treatment initiation and has shortened the "time on ART" eligibility criteria for less-intensive differentiated service delivery (DSD) to six months

We conducted a comprehensive review of current national HIV policies in eastern, southern, central and western Africa to assess visit burden during the first year of ART and the effect of visit frequency and viral load timing on eligibility for lessintensive DSD models.

METHODS

The policy review analyzed HIV clinical and DSD guidance from 15 countries. Data extraction included:

a) the visit schedule for clinically stable individuals, including clinical review, ART-only refill visits, where in routine care or DSD models);

b) visits incorporating routine viral load testing: and

c) the earliest visit at which individuals could be enrolled in less-intensive DSD model, based on "time on ART" and viral load suppression eligibility criteria. In cases where explicit timing for DSD assessment was not provided, we assumed the assessment occurred after the availability of the viral load test result.

RESULTS

Among the 15 countries reviewed, eight required 6-7 visits om the first year of ART, three required 8-9 visits and four required 10-13 visits (Figure 1). In 12 countries, the first viral load is recommended at month six.

In nine countries, access to less-intensive DSD models is only feasible from month 12, assuming a second viral load assessment is not required. However, Kenya, Rwanda and South Africa - with earlier first viral load assessments - allow access to lessintensive DSD models as early as month four (South Africa) or month six (Kenya, Rwanda).

CONCLUSIONS

Despite challenges with treatment retention and the widespread scale-up of dolutegravir-based regimens, most high HIV burden countries continue to delay the first viral load assessment and require frequent clinical visits during the first year of ART. Delaying the first viral load assessment impedes timely interventions to support adherence and unnecessarily delays access to less-intensive DSD models, which offer longer ART refills, extended intervals between clinical reviews, and more convenient refill collection options.

Given the high rates of early disengagement and WHO's recommendations for earlier viral load testing and faster access to less-intensive DSD models, countries should consider scheduling the first viral load assessment earlier. This adjustment could significantly reduce the visit burden during the initial year of ART.

Figure 1: ART care visit schedules in the first year of treatment according to national policies



Scan the OR code to download the dashboard with additional details



Kev

Clinical visit

Viral load testing

uring the first six months on tre ents should be ---- ' elying on the onth 3 VL.

Mozambio VL is taken at month six and then annually ¹⁵DSD eligibility is at month nine when results from month six are available for

visit schedule as reflected. I he first consultation after ART initiation takes place during week six. Clients are eligibl for multi-month dispensing (MMD) of ART from month 12 onwards if they are ²⁶DSD eligibility is from month

¹⁰Guidelines state that VL is tak months six and 12 and then and eviewing VL results at month six, but hedule lists the appointment to take the six. This dashboard reflects the

nth 12 cli Rwanda: ⁷6MMD is only possible in the ⁶--¹⁰hv-hased individual DSD model.

²⁷DSD eligibility and offer takes place a month six provided VL is taken at mont

nts who are adherent and virally ressed at month three may not need suppressed at month three may not nee subsequent monthly appointments until month six. It is likely that a month four v required to ascertain viral load (VL)

ART refill only visit in certain DSD models

DSD eligibility criteria - time on ART required

¹¹For age ≥25 years. VL is taken at month three, month 12 and then annually. For age 0-24 years, VL is taken at month three and then ²²DSD eligibility is at month six, and DSD can be offered based on the VL result from the

South Africa nths 10-12, ali ed with the clinical

W2 – week two

Jberai Clients initiating first-line ART have to be reviewed clinically after two weeks if they have seen given a starter pack for one month; therwise, after one month. From month six on treatment, stable, virally suppressed and rearment, stable, virally suppressed and dherent clients can be given up to 3 or 6 ionthly appointments. VL suppression will be nown only at the visit after month six, requirin, ients to return at month seven or month nine for a review of re 13 Guidelines state that VL is taken at month six and then annually

L is taken at month six with the DSD offer a the next visit. The next visit is either at month seven or month nine (maximum 3MMD unless transferred to appropriate DSD models)

DSD eligibility is from mo x. DSD assessment takes n after month six when VL is taken. If DSD i offered at month seven or nine, the clie will miss the VL visit for month 12. The I

CQUIN 8th Annual Meeting | December 9-13, 2024 – Johannesburg, South Africa

nth 12 or the

only at the following visit. If DSD is offered at month nine, the client will miss the VL visit for month 12. The DSD offer and

nontn 12 s likelv af

set out a clini

²VL is taken at month six and the

PSL DSD eligibility is from month six

However, the VL result would be available only at the following visit. If DSD is offere at month nine, the client will miss the VL visit for month 12. The DSD offer and enrolment is likely to take place at month 12 or the following visit.

review visit schedule of every six to 12 months for adults after six months on

result will likely be reviewed at a follow-up

isit three months later with a further eturn visit at month 12 for the second VL

M0 – month zero, initiation visit

lients should be reviewed monthly. Antiretroviral therapy (ART) refills should follow the clinical review schedule. ⁹DSD eligibility is from month 12. DSD co e offered at month 12 relying on the mo ix VL result. 3MMD is permitted from mo

Walawi: ⁴⁷U is taken at month six and then annually. Routinely, the next VL sample is collected wher 11 months or more have elapsed since the last VL sample was collected. ⁴DSD eligibility is from month six. However, the /L result would be available

wing

esult would be available only at the wing visit. If DSD is offered at month 9, at will miss the VL visit for month 12. The offer and enrolment is likely at month . th 9. the

l visit takes place on day 15 after ent initiation; additional

¹⁸DSD eligibility is from month 12. DSD could be offered at month 12 if there is reliance on the month six VL result. However, if a month 12 VL

ent is likely to take place at the foll

esult. However, I ed. then the DSI

rence counselling sessions are ated in the visit schedule table med to include ART refill collec

VL result would be available only at the following visit. If DSD is offered at month nine, the client will miss the VL visit at month 12. The DSD offer and enrolment is likely to take place at month 12 or the following visit.

set out the clinic

ART refill only visit

as the na

Possible DSD enrolment

²¹DSD eligibility is from month six. However, the VL result would be available only at the following visit. MMD flexibility allows for a 4-month ART refill until the refile.

¹⁶VL is taken at month six, month 12 and annually. However, VL should be taken at month five for DSD enrolment at month