

Healthcare Worker 2019 ART Guidelines Summary Flip Chart



health

Department:
Health
REPUBLIC OF SOUTH AFRICA



TABLE OF CONTENTS	PAGE
What is Dolutegravir	4
Benefits and risks of DTG vs EFV	5
Drug interactions with Doluteravir	6
Drug interactions between DTG and the polyvalent cations (calcium/iron supplements and antacids)	7
Suggested Dosing Schedule	8
Adult women and adolescent girls at least 35kg and 10 years of age	9
Enabling a Client to Make an Informed Choice	10
Summary of 1st Line Regimens	11
Important principles in VL Monitoring	12
Important principle when considering single drug substitutions	13
Re-initiating ART in Treatment Interrupters	14
Dual Treatment of HIV and Active TB	15
PMTCT Guideline (2019): Summary of the changes	16
Algorithm for new enrolments into CCMDD for patients on TEE or TLD	17
Algorithm for switching CCMDD patients to TLD	18
Repeat Prescription Collection Strategies (RPCs)_Differentiated Model of Care (DMoC)	19

Guidance on this job aid

Why this job aid was developed

The purpose of this job aid is to enable quick reference to some important aspects of the 2019 guidelines.

The flip chart is to be used with reference to

The 2019 ART clinical Guidelines for the management of HIV in Adults, Pregnancy, Adolescents, Children, Infants, and Neonates.

The Standard operating procedures titled CCMDD-SOP16: Tenofovir & Lamivudine & Dolutegravir (TLD) - patient registration or transition.

Dolutegravir

NEW

An Integrase inhibitor – can be used in children from a weight of 20kg

TLD = TDF, 3TC, DTG: A fixed dose combination, to be used in persons ≥ 10 years and ≥ 35 kg

PROPERTY OF DTG	DESCRIPTION
EFFICACY	Among the treatment naïve patients, DTG is superior to both efavirenz (EFV) and ritonavir-boosted darunavir.
TOLERANCE	Better tolerated and tends to be protective against treatment discontinuation due to fewer adverse events (AEs)
SAFETY	Most adverse effects are mild and self limiting (<5%) Pharmacovigilance is essential with new drug introduction
DRUG RESISTANCE	High barrier to resistance
METABOLISM	No need to adjust for renal dysfunction
COST	The prices of DTG formulations are 10–15% lower than current EFV based regimens

Benefits and risks of DTG vs EFV

Benefits of using DTG	Risks of using DTG
Provides rapid viral suppression	DTG may increase the risk of neural tube defects (NTDs) if used before or in the first six weeks of pregnancy
High genetic barrier to resistance	
No interaction with hormonal contraceptives	Drug interactions with rifampicin, metformin, anticonvulsants, and polyvalent cations (Mg ²⁺ , Fe ²⁺ , Ca ²⁺ , etc.)
Side effects are mild and uncommon	
Benefits of using EFV	Risks of using EFV
Safe in pregnancy	Low genetic barrier to resistance
No significant interaction with TB treatment	Drug interactions with contraceptives
	Neuropsychiatric side effects

Contraceptive options need to be available to women of reproductive potential on DTG

FEMALE
CONTRACEPTIVE
METHODS


STERILIZATION


CONDOM


FEMALE CONDOM


ORAL CONTRACEPTION


IUCD


INJECTION


IMPLANT

Women should be **provided a choice of contraceptives**, which includes condoms, oral contraceptives, implants, injectables, and intra-uterine contraceptive devices. Dual methods are recommended; a hormonal method or IUCD or Sterilization to prevent pregnancy, and a barrier method (male/female condoms) to prevent STI and HIV transmission.

Contraceptive choices need to **respect human rights** and enable the clients to make informed choices for themselves. Clients should be given comprehensive, scientifically accurate information in order to assist them to make an informed, voluntary choice of a contraceptive method.

Drug interactions with Dolutegravir

Interacting Drug	Effect of Co-Administration	Recommendation
Rifampicin	↓ Dolutegravir	Double DTG dose to 50mg 12-hourly. If on TLD FDC, add DTG 50mg 12 hours after TLD dose
Anticonvulsants: • Carbamazepine • Phenobarbital • Phenytoin	↓ Dolutegravir	Avoid co-administration if possible (sodium valproate, lamotrigine, levetiracetam, and topiramate do not interact with DTG, and can be used). Double DTG dose to 50mg 12-hourly for carbamazepine if alternative anticonvulsant cannot be used
Metformin	↑ Metformin	DTG increases metformin dose Maximum metformin dose should be 500mg 12-hourly

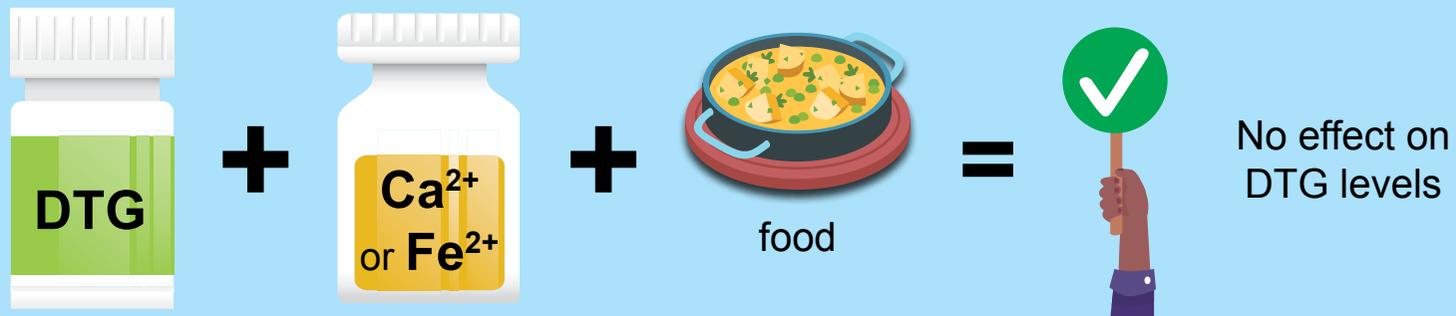
Polyvalent cations - significant interactions (Mg^{2+} , Fe^{2+} , Ca^{2+} , Al^{3+} , Zn^{2+}) e.g. antacids, sucralfate, multivitamin and nutritional supplements

- Calcium supplements decrease DTG concentrations if taken together on an empty stomach.
- Iron supplements decrease DTG concentrations if taken together on an empty stomach.
- Magnesium/aluminium containing antacids decrease DTG concentrations regardless of food intake and should be taken a minimum of 2 hours after or 6 hours before DTG

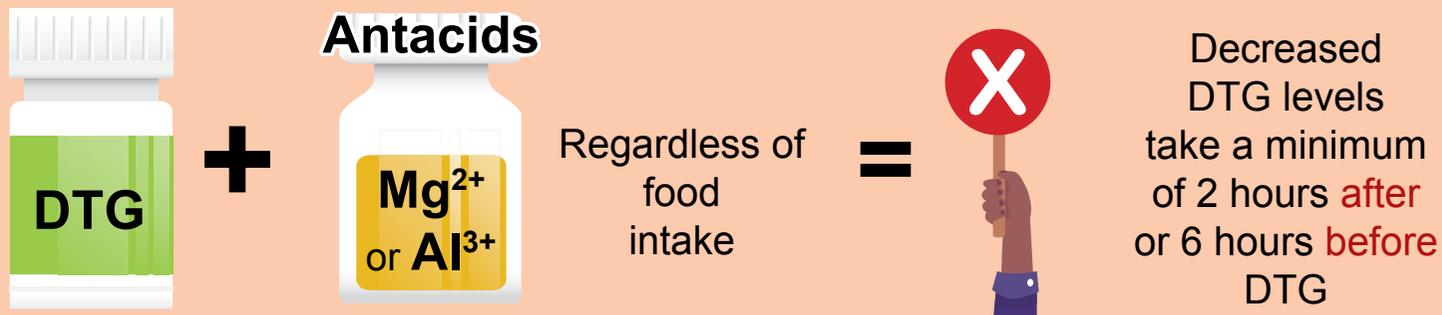
Drug interactions can result in suboptimal drug levels which can cause

- 1. An elevated viral load**
- 2. Drug resistance due to low drug pressure**

Drug interactions between DTG and the polyvalent cations (calcium/iron supplements and antacids)



However, calcium (Ca^{2+}) and iron (Fe^{2+}) must be taken 4 hours apart



Suggested Dosing Schedule

DTG (TLD) can be taken in the morning or evening with calcium and with food. If insomnia is experienced, dose in the morning



Option 1

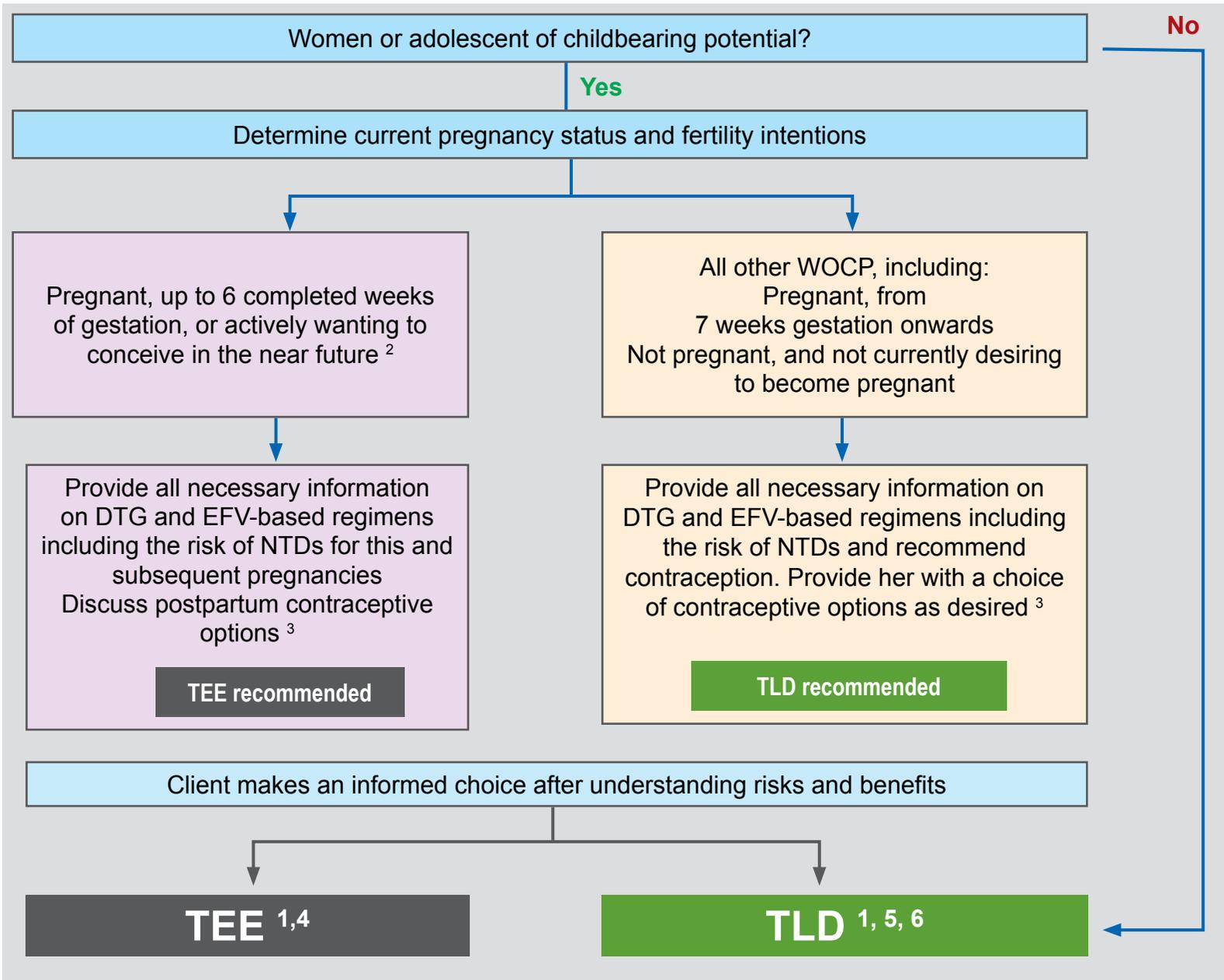
- **DTG + Calcium 500mg + food in the morning**
- Ferrous sulphate 200mg at lunch with food (better tolerated)
- Calcium 500mg in the evening



Option 2

- Calcium 500mg + food in the morning
- Ferrous sulphate 200mg at lunch with food (better tolerated)
- **DTG + Calcium 500mg with food in the evening**

Adult women and adolescent girls at least 35kg and 10 years of age



Considerations for women of childbearing potential

1. Do not use tenofovir in adolescent girls weighing < 35kg. Use Abacavir
2. Start folate for women wanting to conceive but advise to defer conception until they are virally suppressed
3. Provide options from a comprehensive contraceptive commodity mix
4. IF TEE is used around conception, a switch to TLD can be offered if VL is suppressed.
5. Counsel the woman on use of DTG
6. A switch from TLD to TEE can be offered if a women wants to conceive and is concerned about NTDs

Enabling a Client to make an Informed Choice

The clinician should enable a client to make an informed choice by doing the following:



1

- Understand her current pregnancy status and fertility intentions:
 - Is she pregnant? If so, at what gestation?
 - If not, does she desire a pregnancy now?



2

Explain the risks and benefits of DTG vs EFV

0.3% risk for NTD on DTG
vs
0.1% risk of NTD on EFV



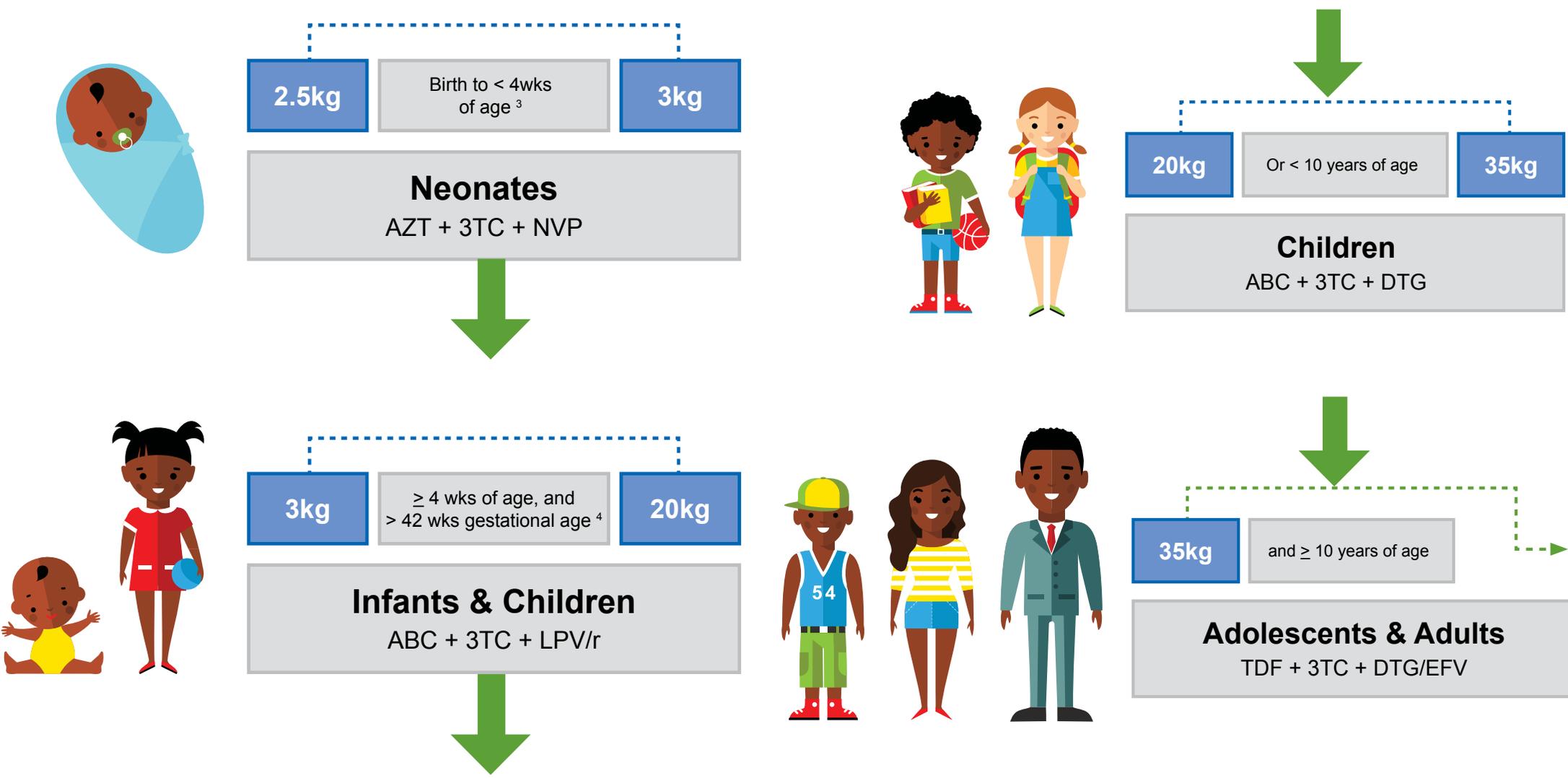
3

- Discuss and provide a choice of contraceptive options as desired
- Remember that dual methods are recommended

Summary of 1st Line Regimens

! Integration of ART and Family Planning services essential!

Neonates, Infants & Children 0 to < 10 years of Age, Adolescents and Adults



Important principles in VL Monitoring

Virological suppression is defined as VL of < 50 c/mL

NEW



Any VL > 50 c/mL requires action



VL 50-999 c/mL
Transient viral blip

Might be the start of virological failure



VL ≥ 1000 c/mL

Work-up for possible virological failure

If you Measure the VL



You must Respond to the result!!

A **thorough assessment** is essential for any patient with a viral load measuring ≥ 50 c/mL

- Implement **interventions**
- **Repeat VL testing** to confirm VL re-suppression

Important principle when considering single drug substitutions

! Never change only one drug in a failing regimen!

Remember... The threshold for failure is 1000 c/mL

VL < 50 c/mL
Virological suppression



Safe to switch one drug
in the regimen?
Yes!!

**VL 50 -
999 c/mL**
Transient viral blip
Might be the start of virological
failure



Safe to switch one drug?
Unclear!
Do a thorough assessment and
counselling, repeat VL in
3 months if still
50-999 c/mL,
can switch

VL ≥ 1000 c/mL
Work-up for possible virological
failure



Safe to switch one drug?
No!!
Work-up for possible failure
Switch to 2nd line

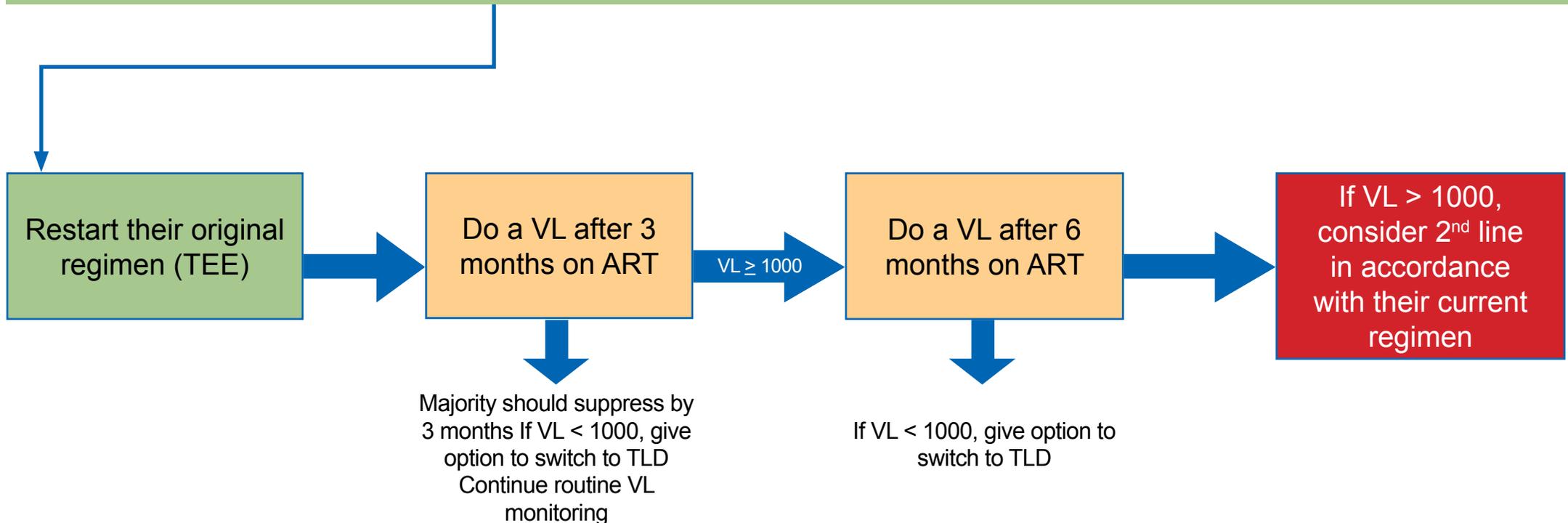
Re-initiating ART in Treatment Interrupters

Take a thorough history including:

- which drugs the client was taking, and for how long;
- the reasons for stopping ART;
- side-effects; and
- any information on VL measurements whilst on ART.

If the patient was

- clinically well on their first-line regimen,
- side-effects were not the reason for stopping ART, and
- their VL was suppressed (or no VL result is available)



Dual Treatment of HIV and Active TB

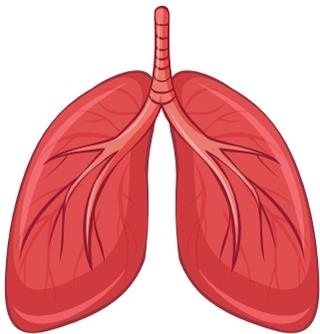
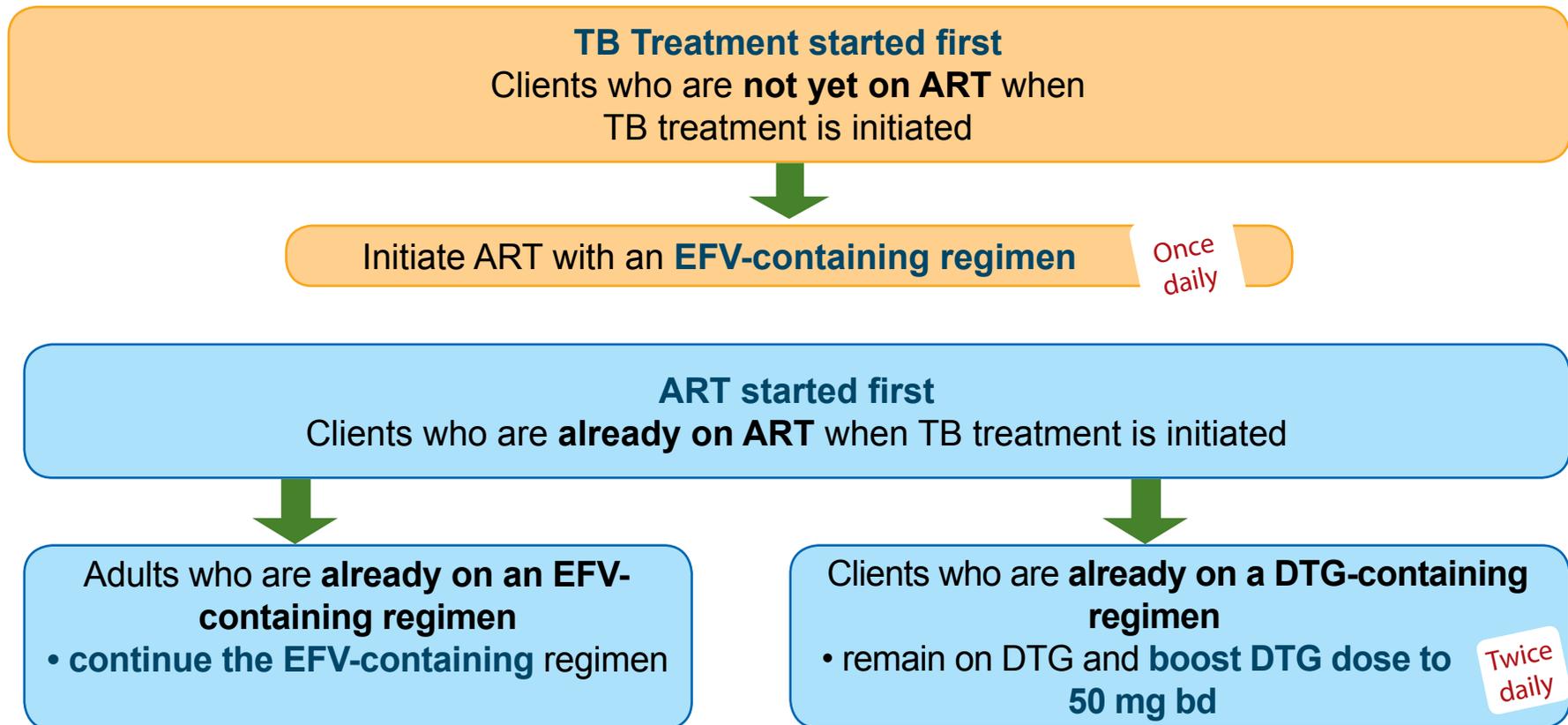


Efavirenz
has no significant interaction
with rifampicin

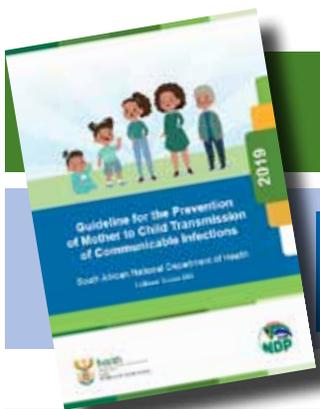


Dolutegravir
has significant interaction
with rifampicin

Therefore, TB/HIV co-infection impacts on ART drug selection as follows:



Summary of the changes in the new PMTCT Guideline (2019)



Central Theme: Maternal Viral Load Suppression

Other cross cutting themes

- Linking with HIV Prevention and Family Planning services
- Integrating services for the mother-infant-pair
- Promoting and protecting breastfeeding

Electronic gate keeping codes (to prevent VL rejection):

C#PMTCT
(during ANC & breastfeeding)

C#Delivery
(at delivery)

Specific Changes

Antenatal care

HIV-negative: HIV testing monthly at every full BANCPlus visit

Dolutegravir

- Potent VL suppressor
- Risk for NTDs
- Drug interactions

TB Screening and TPT

- Symptom screen and TB GeneXpert regardless of symptoms
- TPT during pregnancy if CD4 < 350

Labour and delivery

Delivery-VL for all HIV+ women

Stat NVP and TLD for women presenting in labour not on ART

Provide mother with 2 months ART supply at discharge

TLD= Tenofovir, lamivudine, dolutegravir

Postpartum Care and Breastfeeding

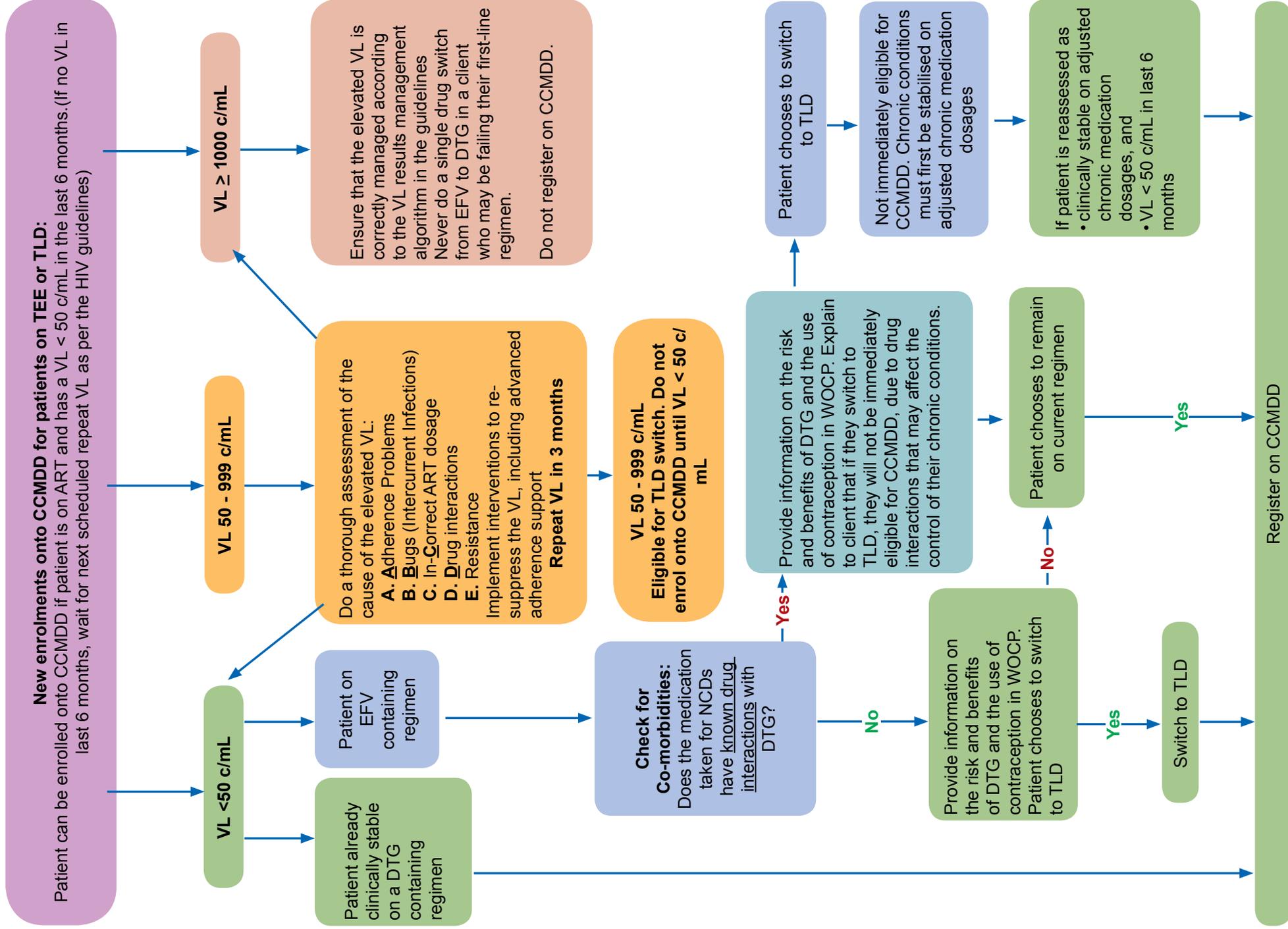
High risk infant prophylaxis (also given during BF if new diagnosis or high viral load):

- AZT for 6w
- NVP for minimum of 12w, until maternal VL suppressed

Breastfeeding for 24 months or longer in the context of viral suppression and enhanced infant prophylaxis

HIV-PCR at birth and 10 weeks remain HIV-PCR at 6 months for all HIV-exposed
Maternal VL at 6 months and 6-monthly 18 month rapid/ELISA for all children
HIV confirmation with PCR until 24m

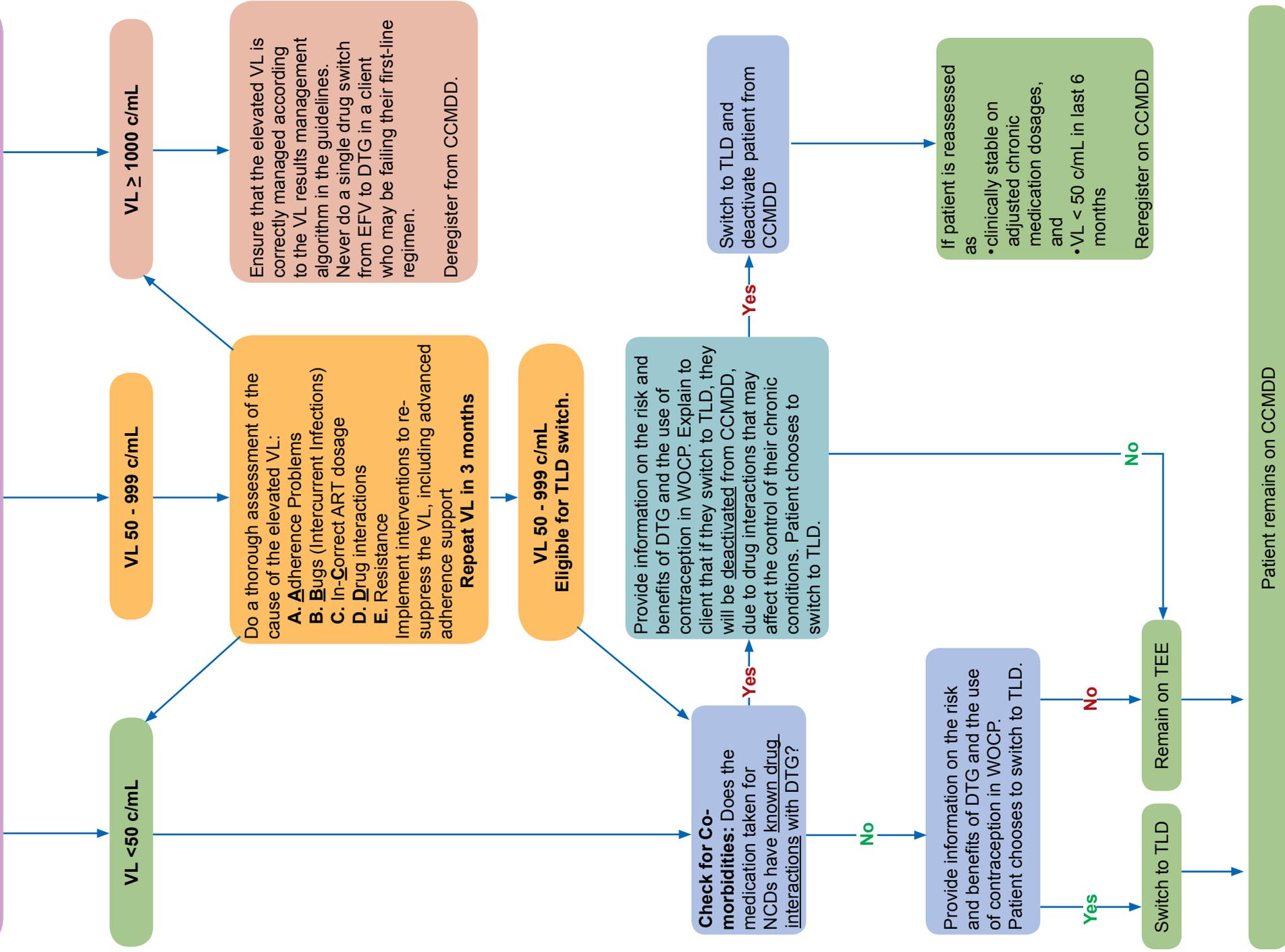
Algorithm for new enrolments into CCMDD for patients on TEE or TLD



Algorithm for switching CCMDD patients to TLD

Switching of existing CCMDD patients from TEE to TLD:

Patients with a VL done in the last 6 months can be assessed for switching from TEE to TLD.
If no VL in last 6 months, wait for next scheduled repeat VL as per the HIV guidelines.



Repeat Prescription Collection Strategies (RPCs) Differentiated Model of Care (DMoC)



Facility Pick-up Point: FAC-PUP (SOP 4)



Adherence clubs: AC (SOP 5)



External Pick-up Point: EX-PUP (SOP 6)



- Decanting of stable patients at 6 months (New criteria)
- Eligibility criteria for all RPCs revised (Refer to AGL SOP)
- CCMDD now recognised as supply system for ALL Repeat Prescription Collection strategy (RPCs).
- FAC - PuP and Adherence Clubs can also be pre-packed by facility/central dispensing unit (CDU).
- SOP 6 now called External Pick-up Point (EX-PUP)
- RPCs benefit from multi-month supply with annual visit schedule includes 2 and 3-month treatment supply annual schedules
- Same criteria for return to regular care across all RPCs

Eligibility Criteria

Adults

- Above 18 years
- On treatment for at least 6 months
- Most recent viral load (VL) taken in past 6 months < 50 copies/ml for HIV
- Most recent HbA1c taken in past 6 months < 7% for Diabetes
- 2 consecutive BP < 140/90 for Hypertension

Children and Adolescents

- 5 - 18 years
- On ART for at least 6 months with no regimen or dosage change in the last 3 months
- Most recent VL taken in past 6 months < 50 copies/ml
- Care givers counselled on disclosure process
- Patient (>12 years/caregiver if patient < 12 years) voluntarily opts for the RPCs option

We would like to acknowledge the involvement
of the following organisations with the
development of this flip chart:



Disclaimer: The printing of this material was supported by the Grant or Cooperative Agreement Number, GH001932-04, funded by the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the Department of Health and Human Services.