

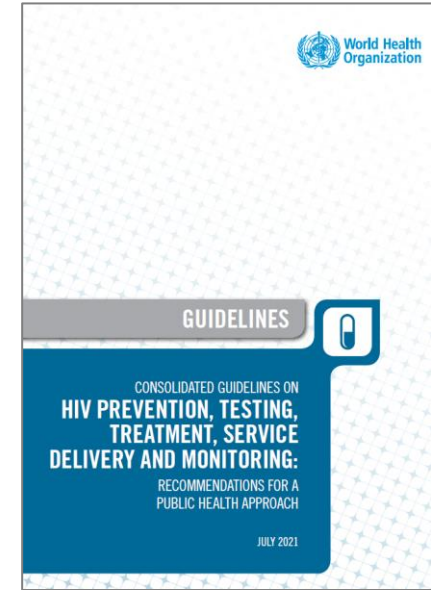
» **SESSION 7A: TRACING PRIORITIZATION AND PROCESS**

Session 7A

Overview of WHO guidelines on tracing and implementation

WHO tracing guidance

- Benefit of encouraging/facilitating some individuals to return to care and back onto life-saving ART
- **Recommend tracing despite low-certainty evidence**



7.6.2 Tracing and re-engagement in care

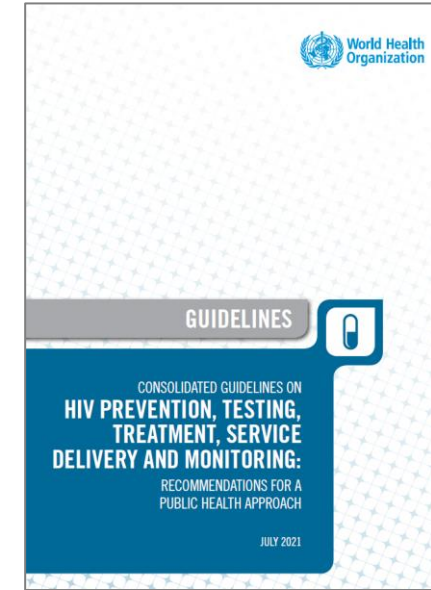
Recommendation (2021)

HIV programmes should implement interventions to trace people who have disengaged from care and provide support for re-engagement (*strong recommendation, low-certainty evidence*).

Source: *Updated recommendations on service delivery for the treatment and care of people living with HIV (63)*

Feasibility & prioritization (1/3)

- No cost-effectiveness data on tracing
- Cost depends on:
 1. Missed appointment verification systems (to limit unnecessary tracing)
 2. Who is prioritized for tracing
 3. When tracing efforts start and stop
 4. What tracing method(s) are used



Feasibility, cost and cost-effectiveness

Most reports described the tracing activities undertaken by existing health facility personnel; in some cases, social workers and community health workers formed part of the tracing team, and personnel were trained. Other associated costs include establishing systems to trace and support re-engagement. In-person tracing requires resources to support the travel of tracing teams and human resources with appropriate training and remuneration, including the potential need to undertake multiple tracing attempts.

Implementation considerations

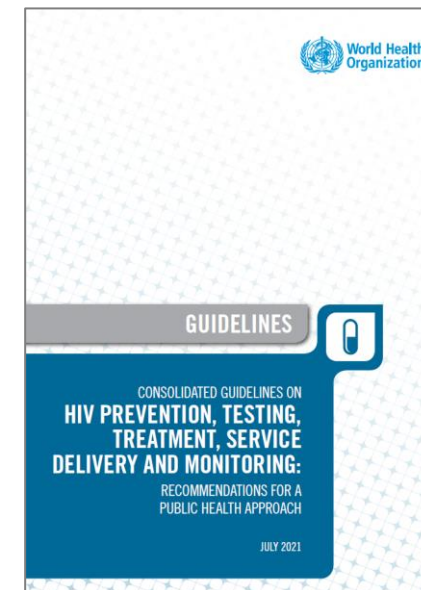
The criteria for tracing and recall should consider those who are seven or more calendar days late for a scheduled appointment. Although efforts should be made to trace everyone who has missed appointments and/or has abnormal results, the following groups should be given priority: (1) people initiating treatment in the past six months with advanced HIV disease, (2) people with abnormal results, (3) people not initiating treatment and (4) people overdue for clinical consultations or laboratory tests.

Feasibility & prioritization (2/3)

Tracing should focus on those with missed visits (not LTFU) and abnormal results

With limited resources and many clients returning on their own shortly after a visit date:

Tracing should not take place before a client is 7+ days late for a missed appointment



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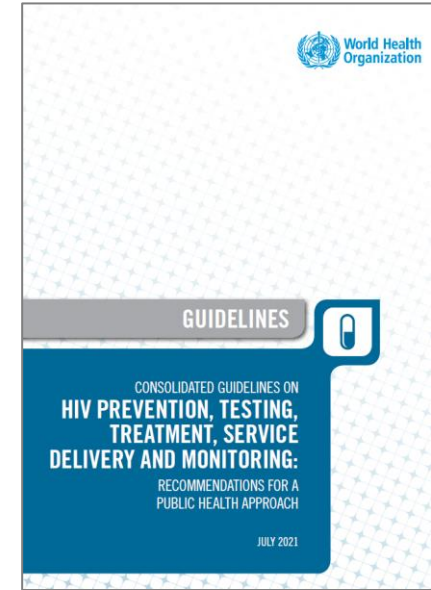
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Feasibility & prioritization (3/3)

Due to limited resources and clients returning late:

Tracing should prioritize people at higher risk of morbidity and mortality

1. Initiated past 6 months with CD4<200
2. Abnormal results – for example CrAG+
3. People not initiating ART
4. People overdue for clinical consults or lab tests (above refill only visits)



Feasibility, cost and cost-effectiveness

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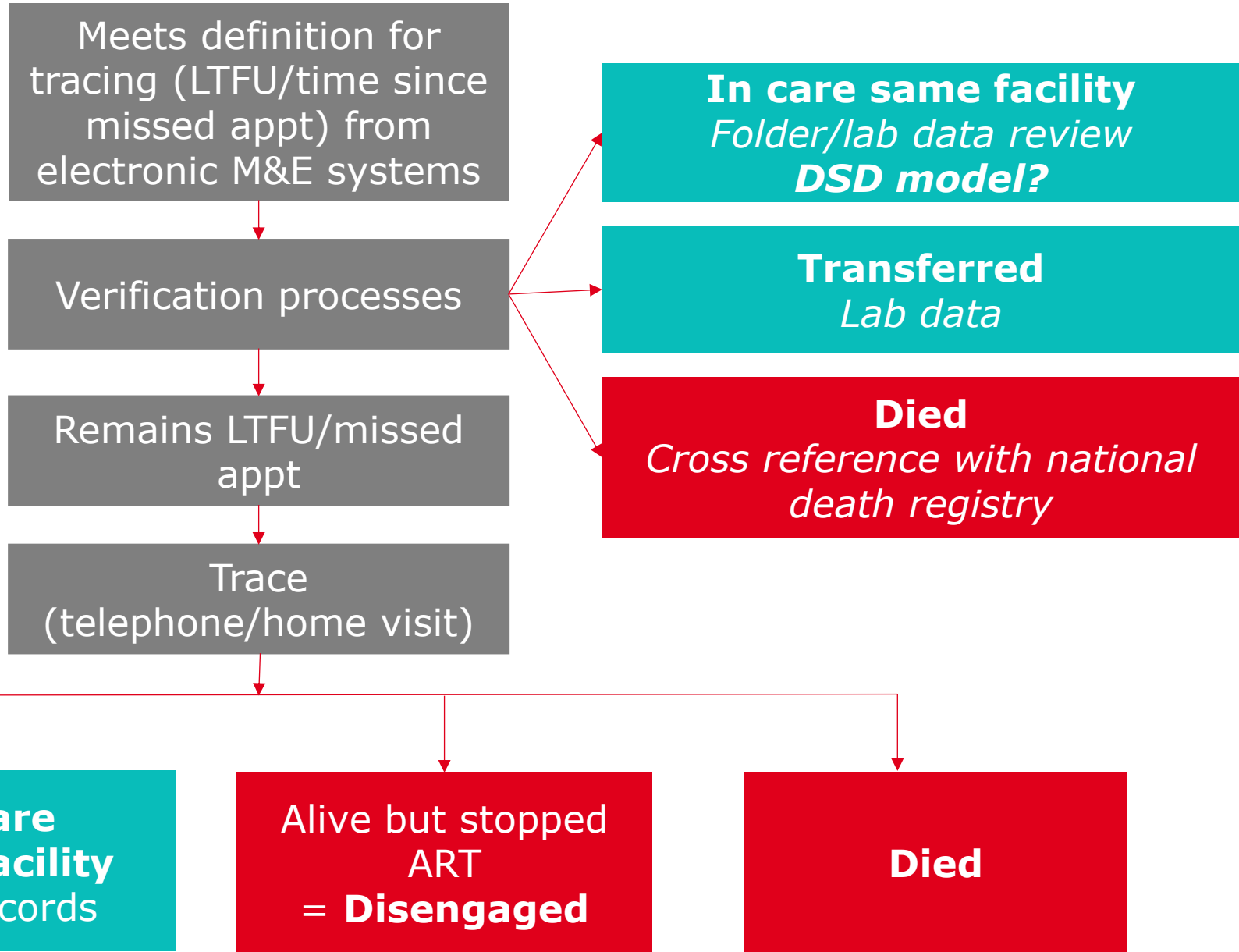
Why is it important to understand tracing studies?



- WHO's guidance on tracing is based on these studies,
PLUS

→ They can provide additional insights into how to make tracing more effective and for who.....

Tracing studies approach



Verification processes

Use of lab data to reduce unnecessary tracing (determine who is in care elsewhere)

South African ART cohort retention when matched against lab data

Clients initiating ART
01/04/2004- 31/12/2006
(database closure
31/12/2012)

[Fox et al 2018](#)

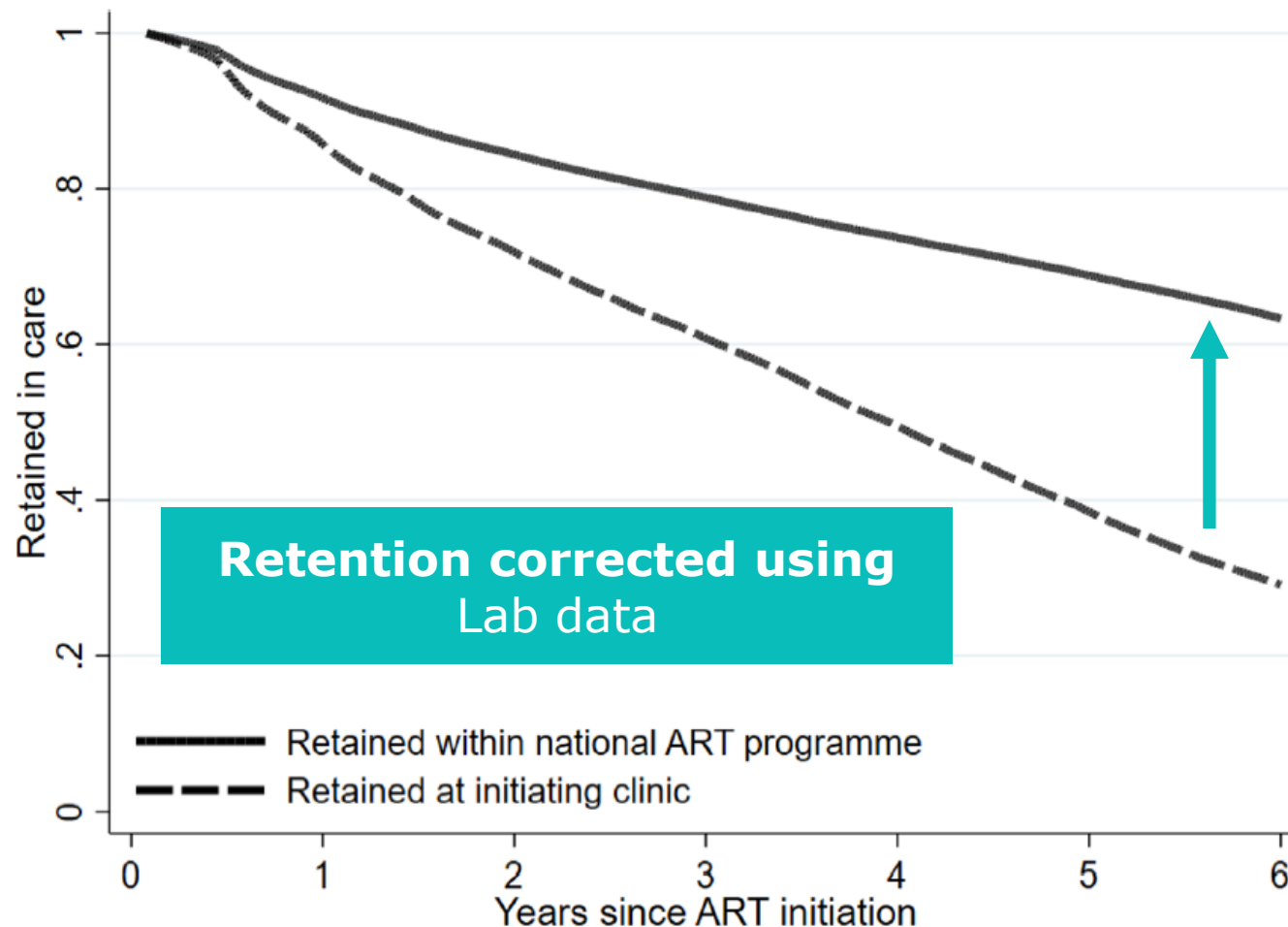


Fig 1. Effect of patient transfer on retention estimates overall in South Africa among 55,836 patients initiating ART in 2004–2006, with attrition defined as retained in care on December 31, 2012.

Verification processes

Use of national vital registration system/death registry to reduce unnecessary tracing (determine who has died)

South African clinic
Clients LTFU in 2008

Fox et al 2011

Themba Lethu Clinic Records	Vital Registration System		Total
	Registered as died	Not registered as having died	
Died	230	28	258
LTFU	333	704	1037
Alive and in care	60	4850	4910
Total	623	5582	6205

Performance	% (95% CI) [^]	N/Total
Mortality before updating	4.2% (3.7%–4.7%)	258/6205
Mortality after updating	10.0% (9.3%–10.8%)	623/6205
Mortality among LTFU after updating	32.1% (29.3%–35.0%)	333/1037

* Data was validated against South Africa's Department of Home Affairs Vital Registration System

Died
Cross reference with death registry



Latest systematic review (now old) + recent tracing studies all show **many people traced in care at the same facility or elsewhere**

		Transfer	In care at the same facility	Disengaged (Alive stopped ART)	Death
Wilkinson et al Systematic review and meta-analysis (2015)	Tracing studies Both missed appts & LTFU 2003-2013	18.6% Silent transfers	3-29% (never dis-engaged)	28.6%	38.8% (30% in post 2007 studies)
Bailif et al 6 country sample tracing study (2021)	LTFU (>60 or >90 days) 2014-2017 <i>Traced 2017-2019</i> Lesotho, Malawi, Mozambique, South Africa, Zambia, and Zimbabwe	Alive in care from record check: 13% Alive in care from tracing: 29% Total 42%		20%	11%
Ssemwogerere et al Tanzania (2022)	LTFU (>90 days) 2017-2021 3 large public facilities (n=740)	76% Silent transfer	1.9% (re-engaged)	5%	13%

Take-aways (1/2)

- **Limited impact if traced months after LTFU.** (Tracer contact did not causally increase patient return to HIV care among those LTFU.) **More useful for actioning missed appointments** ([Beres et al 2021](#)).
- **Re-engagement rates are higher in the first two weeks post-tracing LTFU list.** Likely similar for missed appointments, with impact diminishing quickly, limiting benefit of repeated follow-ups beyond 2-3 attempts ([Beres et al 2021](#)).



Take-aways (2/3)



- Over time **tracing has increased identification of silent transfers and disengagements** with reduction in deaths ([Zurcher et al 2018](#))
- The higher the **% of all LTFU/missed appointments traced**, the **more silent transfers identified** ([Wilkinson et al 2015](#))
- **Newer verification/tracing studies** showing **high % silent transfers** ([Ssemwogerere et al 2022](#), [Etoori et al 2022](#), [Pry et al 2023](#))
- **Short tracing periods, increase % still in care at the same facility** (poor capturing/records) ([Wilkinson et al 2015](#))

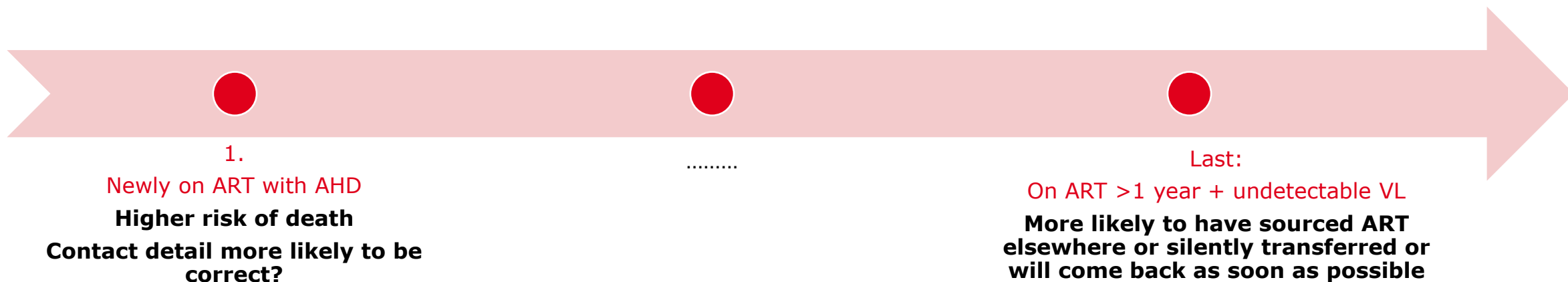
Take-aways (3/3)

- The **longer tracing takes, increase % deaths** ([Wilkinson et al 2015](#), [Ballif et al 2021](#))
- **Higher % deaths in people LTFU on ART <1 year** ([Ballif et al 2021](#))
- **Fewer people traced if only using telephone calls** (20 vs 60%) ([Zurcher et al 2018](#))
- When **tracing is only phone calls, lower % deaths identified** (likely % people who have died not successfully traced) ([Wilkinson et al 2015](#); [Zurcher et al 2018](#))

Prioritization

- Develop a priority order for tracing categories of clients with missed appointments
- **Biggest impact first.....**

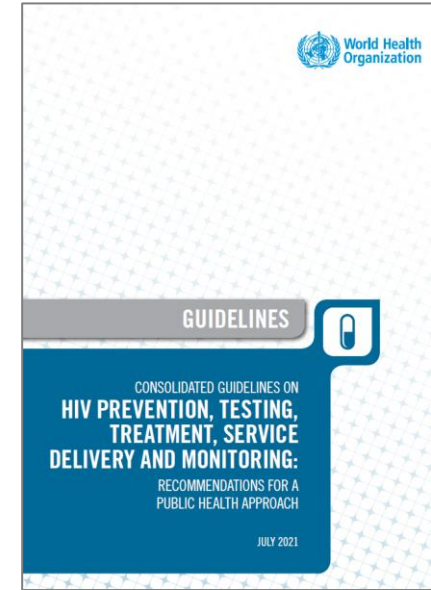
“When there is no explicit prioritization, it happens implicitly and can lead to greater inequity and reduce overall impact of tracing”



Remember WHO prioritization guidance

Tracing should prioritize people at higher risk of morbidity and mortality

1. Initiated past 6 months with CD4<200
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Implementation considerations

The criteria for tracing and recall should consider those who are seven or more calendar days late for a scheduled appointment. Although efforts should be made to trace everyone who has missed appointments and/or has abnormal results, the following groups should be given priority: (1) people initiating treatment in the past six months with advanced HIV disease, (2) people with abnormal results, (3) people not initiating treatment and (4) people overdue for clinical consultations or laboratory tests.

Example:

South Africa

Prioritisation order for tracing and recall:

Every effort should be made to trace all patients with missed appointments and/or abnormal results. However, tracing and recall should be prioritized for the following patients in the order set out below:

1. Patients started to restarted on treatment in the last 6 months with advanced HIV disease (AHD)
2. Patients with abnormal results (HIV: Serum CrAg+, PCR+ or viral load >50 copies/ml, diabetes: HbA1c >8%, hypertension: BP > 140/90, TB: positive GXP, Smear, Culture, Line Probe Assay (LPA))
3. Patients diagnosed but not started on treatment (failed linkage)
4. Patients overdue for their condition specific assessment and/or investigation (test)

TRACING AND RECALL SOP 7



Key elements: Tracing process

- Monitoring systems in place
- Identify eligible and prioritized clients for tracing
- Co-ordinate with outreach teams
- Respectful and consensual tracing
- Supportive and non-judgemental encouragement to return to care



Operationalizing the tracing process

- Programmes should have monitoring systems in place to identify and alert about clients on ART who disengage.
- When a client is eligible and given priority for tracing and when consent for tracing has been given, the programme should coordinate with the outreach or tracing team to locate the client.
- The tracing team may include lay workers, peer supporters and community health workers, who are tasked with following up a list of clients (1).
- This approach must ensure that tracing efforts are respectful, consensual and tailored to the needs and preferences of each client, enhancing the effectiveness of re-engagement strategies in care.
- Once the client is reached through tracing, it is important to be supportive and non-judgemental and give clear information and counselling to encourage re-engagement in care and treatment.

Enabling effective tracing

Tracing process: Client supported

1. **Obtain consent to trace** (explain why: abnormal results or missed appointments to check person is okay?)
2. **Update contact details at every visit** – explain why
3. **Clarify tracing preferences** – by phone call, SMS, WhatsApp and/or home visit.
 - Communicate and ensure HIV status will never be disclosed during tracing processes.
4. **Document** in specified place in clinical stationary



Enabling effective tracing

Tracing process: System supported

1. Optimized monitoring systems

2. Tracing SOP (focus for today)

- i. Clarified roles and responsibilities
- ii. Verification processes
- iii. Methods/Timing
- iv. Feedback/documentation approach

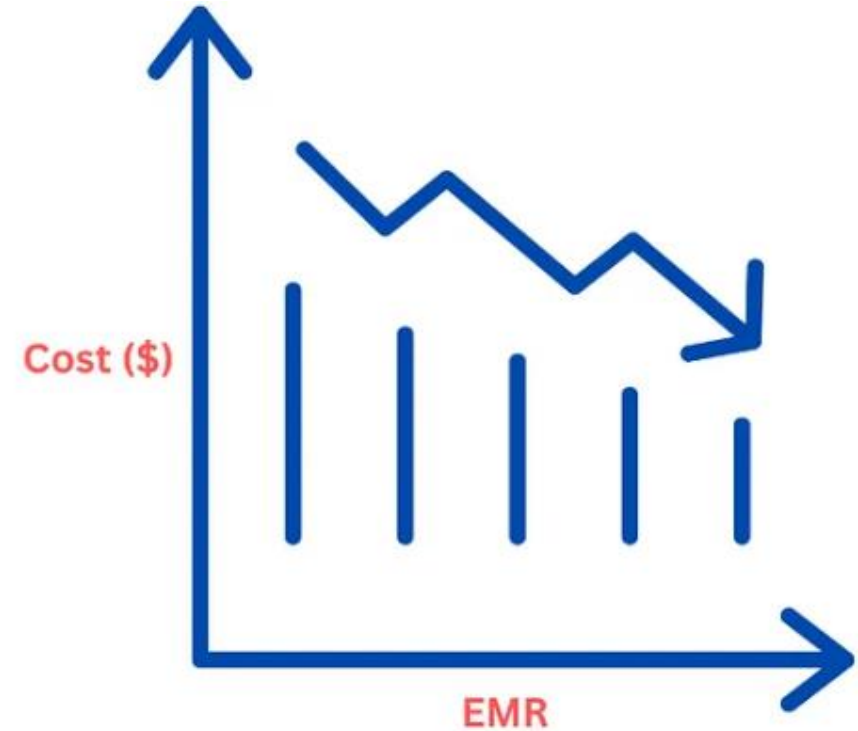
3. Funded logistics for tracing – phones, airtime, transport etc

4. Tracing indicators? For priority categories?

5. Tracing system audit processes

1. Optimized monitoring system

- EMR generated tracing reports?
 - Calculates days after a missed appointment for tracing?
 - Categorises missed appointments by priority order? *Using ART start date, CD4<200, abnormal labs red flag, overdue for VL*



- Consider feasible sustainable EMR supported verification steps:**
- Checks against lab system/death registry/registration at other ART sites
 - Possible from a database perspective?
 - Possible process within centralized tracing call centre?

2. Tracing SOP

1. Clear roles and responsibilities:

- **Clinic staff:** responsible for generating tracing reports, verifying clients for tracing, communicating with phone tracers + community-based tracers, recording feedback
- **Phone tracers** (at the clinic or centrally)
- **Community-based tracers**

2. Specify feasible clinic-based verification steps

- Check national database system if it exists
- Check folder – attended/DSD client?
- Check DSD model register?
- Check lab data – tests done elsewhere?

3. Specify tracing process:

- i. Check client consent and preferred tracing mechanism**
- ii. Specify method/timing:**
 - Timing of phone call or SMS/WhatsApp messaging
 - How many calls/messages before home visit
 - Number of home visits
- iii. Set out feedback process**
- iv. Set out documentation process**



OPERATIONAL AND SERVICE DELIVERY MANUAL

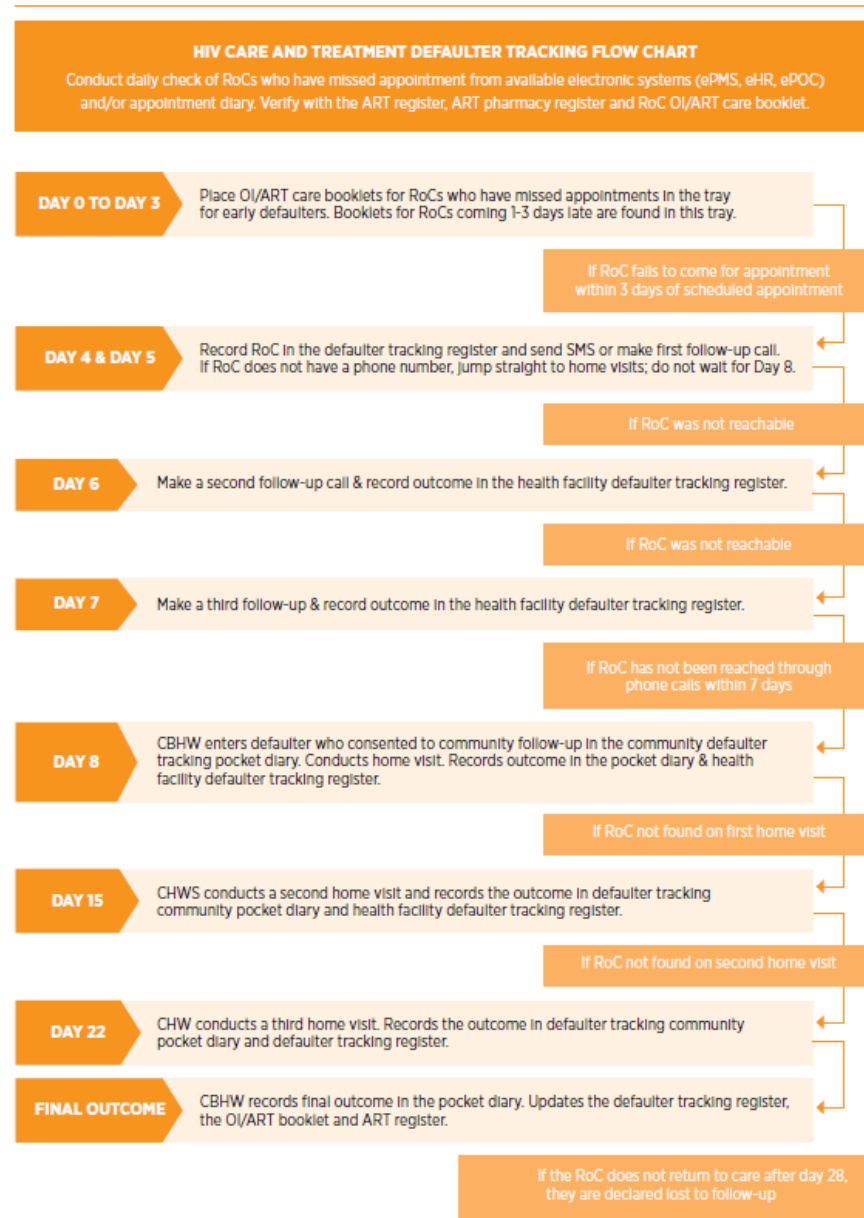
FOR THE PREVENTION, CARE AND TREATMENT OF HIV IN ZIMBABWE

2022 EDITION



AIDS & TB Programme
Ministry of Health and Child Care, Zimbabwe

Figure 19: Standard operating procedure for defaulter tracking



3. Logistics

- **Biggest barrier to effective tracing!**
- Every clinic needs a necessary funded logistics: Phone lines/mobile phones, airtime, transport etc.

Do we need to start thinking out of the box.....what can sustainably be centralized? Verification? Call component? District based mobile teams?



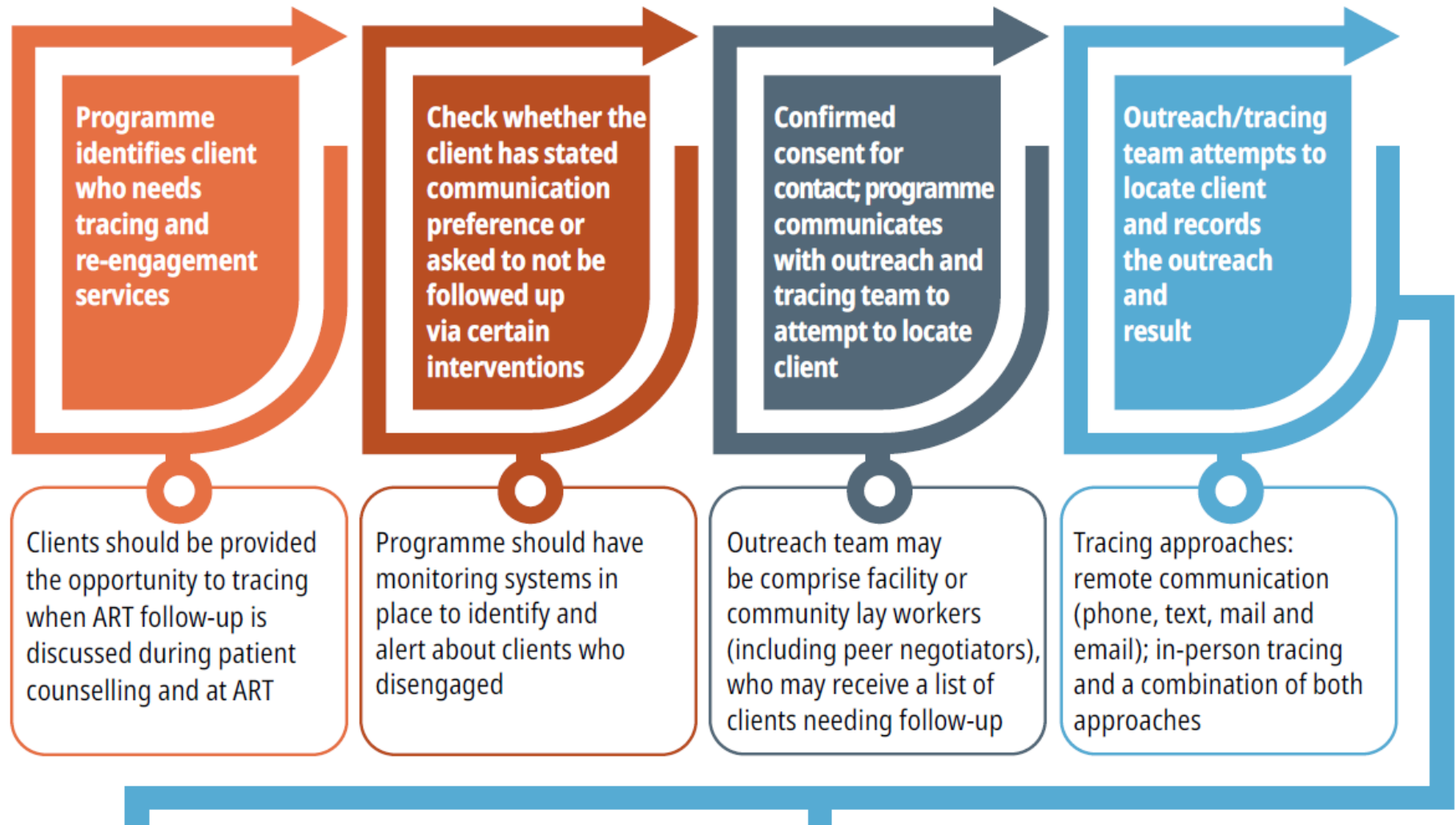
4. Tracing indicators?

5. Tracing QA

- Decide on critical reporting requirements
 - possibly priority categories tracing outcomes?
- Ongoing tracing system quality improvement assessments/process audits



Figure 2. Tracing process



Supporting re-engagement in HIV treatment services

Policy brief

