

SAME-DAY ART INITIATION IN THE SLATE TRIAL IN KENYA: PRIMARY OUTCOMES

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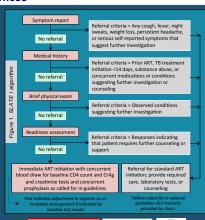
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BACKGROUND

(≤7 days) for all patients. Despite widespread reports of routine implementation of SDI in many African countries, little is known about determining same-day eligibility is now a priority. The Simplified Algorithm for Treatment Eligibility (SLATE I) trial evaluated a clinical algorithm in South Africa and Kenya that allows nurses or clinical officers to determine eligibility for immediate ARV dispensing at the same clinic visit. Results from South Africa were presented in 2018¹; here we report primary outcome results from Kenya.

METHODS

- Design: SLATE was an individually randomized trial at three including an HIV test, but not yet on ART were enrolled, care. Follow up was by passive record review.
- examination, and readiness assessment to distinguish between completing the algorithm and those who should have further
- Intervention arm patients found eligible for SDI were referred back to standard care. Standard arm patients were referred back to standard care after randomization. Both standard of care and study ART initiation and monitoring were
- and retention on ART 8 months after study enrollment. We also
- Further details can be found in Rosen S. et al. Simplified clinical algorithm for identifying patients eligible for immediate initiation of antiretroviral therapy for HIV (SLATE); protocol for a randomized evaluation. BMJ Open 2017;7:e016340.



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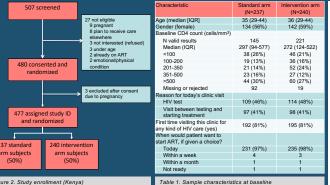


Figure 2 Study enrollment (Kenya)

utcome	Standard	Intervention	Crude risk difference (95%CI)*	Crude relative risk (95% CI)*	L
enrolled	237	240			Г
imary outcome 1: Initiation					h
Initiated ≤ 28 days (primary outcome)	210 (88.6%)	226 (94.2%)	5.6% (0.5%-10.6%)	1.06 (1.01-1.12)	
Initiated in 0 days (same-day)	127 (53.6%)	167 (69.6%)	16.0% (7.3%-24.7%)	1.30 (1.12-1.50)	
Initiated ≤ 7 days (rapid)	173 (73.0%)	207 (86.3%)	13.3% (6.1%-20.4%)	1.18 (1.08-1.30)	
Initiated ≤ 90 days	222 (93.7%)	231 (96.3%)	2.6% (-1.4%-6.5%)	1.03 (0.99-1.07)	
imary outcome 2: Retention					
Initiated ≤ 28 days and retained at 8 months after enrollment (primary outcome)**	136 (57.4%)	137 (57.1%)	-0.3% (-9.2%-8.6%)	0.99 (0.85-1.16)	
ming of attrition occurring by 8 months a	fter enrollment				
Lost or died before ART initiation	13 (5.4%)	8 (3.3%)	-2.2% (-5.9%-1.5%)	0.61 (0.26-1.44)	
Lost or died ART after ART initiation	82 (34.6%)	79 (32.9%)	-1.6% (-10.2%-6.8%)	0.95 (0.74-1.22)	
Transferred (outcome unknown)	6 (2.5%)	16 (6.7%)	4.1% (0.5%-8.2%)	2.6 (1.05-6.62)	

Reference group: standard arm

**Follow up for 8 months=1 month for initiation + 6 months' follow up + 1-month window for 6-month routine visit; retained= clinic visit 5-8 months after enrollment

Table 2. Primary outcomes, by study arm

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RESULTS

- 477 patients were enrolled in the study from 7/13/17 to 4/17/18 (Fig 2, Tbl 1).
- Arms were balanced on important demographic and clinical characteristics. Primary outcome 1 (initiation ≤ 28 days of study enrollment)
- In the intervention arm, 55% of patients (131/240) were found to be eligible for
- immediate initiation under SLATE I; 96% of these were dispensed ARVs on the same day by the intervention clinician.
- The other 45% in the intervention arm (109/240) met ≥ 1 algorithm criteria for referral for additional services before initiation (85% due to TB symptoms).
- Same-day initiation was provided to 54% of standard arm patients and to 38% (41/109) of intervention arm patients referred back to standard care after being found ineligible by SLATE algorithm.
- Within 28 days (primary outcome), 94% of intervention arm patients and 89% of standard arm patients had initiated ART.
- Within 7 days, the WHO's definition of rapid initiation, 86% of intervention arm patients and 73% of standard arm patients had initiated ART

Primary outcome 2 (initiation ≤ 28 days and retained by 8 months)

- By 8 months after enrollment (i.e., by the routine 6-month clinic visit), 57% of patients in both arms had initiated and were retained.
- Of the 43% not achieving primary outcome 2, a majority were lost to follow up or died after ART initiation, not before (Table 2).

CONCLUSIONS AND LIMITATIONS

- The SLATE algorithm, comprising simplified steps for ART initiation, increased uptake of ART within 28 days by absolute differences of 5.6% and 7 days by 13.3%.
- There was no difference in the proportion of patients who initiated ≤28 days and
- Standard of care in Kenya during the study period included same-day initiation at the clinician's discretion, reducing differences between the arms.
- Post-initiation attrition was very high in both arms (≈35%) at the time of the routine 6-month visit; more attention must be paid to early retention support.

missing data for some patients.

- SLATE demonstrates that same-day ART initiation for both new and established
- HIV patients can be offered safely and effectively at primary health centers.
- A follow-on trial, SLATE II, is currently testing an improved algorithm in South Africa that incorporates lessons learned from the first SLATE study, particularly for