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## PROGRAMME SCIENCE

# Optimising the cost and delivery of HIV counselling and testing services in Kenya and Swaziland

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## ABSTRACT

**Background** Approaches to HIV counselling and testing (HCT) within low-resource high HIV prevalence settings have shifted over the years from primarily client-initiated approaches to provider initiated. As part of an ongoing programme science research agenda, we examine the relative costs of provider-initiated testing and counselling (PITC) services compared with voluntary counselling and testing (VCT) services in the same health facilities in two low-resource settings: Kenya and Swaziland.

**Methods** Annual financial and economic costs and output measures were collected retrospectively from 28 health facilities. Total annual costs and average costs per client counselled and tested (C&T), and HIV-positive clients identified, were estimated.

**Results** VCT remains the predominant mode of HCT service delivery across both countries. However, unit cost per client C&T and per person testing HIV positive is lower for PITC than VCT across all facility types in Kenya, but the picture is mixed in Swaziland. Average cost per client C&T ranged from US\$4.81 to US\$6.11 in Kenya, US\$6.92 to US\$13.51 in Swaziland for PITC, and from US\$5.05 to US\$16.05 and US\$8.68 to US\$19.32 for VCT in Kenya and Swaziland, respectively.

**Conclusions** In the context of significant policy interest in optimising scarce HIV resources, this study demonstrates that there may be potential for substantial gains in efficiency in the provision of HCT services in both Kenya and Swaziland. However, considerations of how to deliver services efficiently need to be informed by local contextual factors, such as prevalence, service demand and availability of human resources.

## INTRODUCTION

Despite significant progress, sub-Saharan Africa (SSA) continues to have the highest global burden of HIV infection.<sup>1</sup> With the roll out of antiretroviral treatment, and recognition that early HIV treatment may also impact on future HIV transmission, HIV counselling and testing (HCT) is an important cornerstone of HIV programming.<sup>2–6</sup> The early investment in stand-alone voluntary counselling and testing (VCT) was supported by research findings suggesting that the provision of VCT is cost-effective.<sup>7</sup> However, using the VCT model, the uptake of HCT in many high HIV prevalence countries in SSA remained low, with the poor uptake being due to both demand factors (such as fear of stigma associated with accessing stand-alone

HIV services); and supply factors (including the limited availability of testing centres in many settings).<sup>5–9</sup> Many SSA countries are, therefore, currently exploring and scaling up alternative approaches to HCT to encourage uptake of HIV testing to population groups with limited access to existing services.

In addition, amidst the current economic crisis, there is a renewed interest in achieving 'value for money', with policy makers focusing on the most efficient way of delivering key HIV services without compromising quality. For countries seeking to expand HCT coverage, integrating HCT services into existing services, using a provider-initiated testing and counselling (PITC) approach, offers the potential to reduce HIV-related service costs. This study seeks to add to the evidence on the efficiency of delivering HCT services in low-resource settings by comparing the economic costs of delivering HCT services through PITC and VCT at 28 health facilities in Kenya and Swaziland, as part of a larger project, Integra Initiative.

Drawing on key programme science principles,<sup>10</sup> this joint project between researchers and implementers supports the planning and delivery of integrated HIV and sexual reproductive health (SRH) services; from programme design to assessing the impact of integration key outcomes and service delivery goals, including the assessment of the efficiency of SRH and HIV services (<http://www.integrainitiative.org>).

## STUDY SETTING

Kenya has a generalised HIV epidemic with a prevalence rate of 7.1%, according to the last Kenya AIDS Indicator Survey (2007).<sup>11</sup> On the other hand, with an estimated adult HIV prevalence of 26%, Swaziland has the world's most severe generalised HIV epidemic.<sup>12</sup> HCT is central to both Kenya and Swaziland's national response to HIV. However, despite the increasing availability of VCT centres, knowledge of HIV status remains low.<sup>13–14</sup> In a bid to encourage HCT uptake to population groups with limited access to existing services, the Ministries of Health of both Kenya and Swaziland mandated PITC throughout the health sector in 2008. The Integra Initiative further strengthened this effort by providing staff training, equipment, supplies and supportive supervision to improve delivery of HTC services within SRH services.

## VCT and PITC Provision

VCT refers to the client-initiated counselling and testing for HIV through VCT centres, while PITC involves the incorporation of HCT into routine healthcare, including general primary care, maternal and child healthcare, care for sexually transmitted infections and inpatient services. Both VCT and PITC services are offered in Kenya and Swaziland, and follow similar testing procedures in both countries.

There are, however, several differences between the PITC and VCT models, which have associated resource implications. While PITC services are routinely offered to all clients attending services, regardless of their reason for accessing services, VCT is dependent upon clients seeking testing. Within VCT, counselling and testing is provided by a lay VCT counsellor or a nurse. For PITC, pre- and post-test counselling is provided by a nurse, and testing is conducted either by the same nurse or provided by a laboratory technologist or a lay counsellor. VCT generally involves one-on-one or couples counselling, while for PITC pre-test counselling may be provided to groups. PITC may also involve much less post-test counselling than VCT, and thus, requires a shorter length of staff time for each visit.

## Study sites

The study was conducted in a total of 41 health facilities in Kenya and Swaziland. Of the 41 sites, only 28 provided both PITC and VCT services within the same facility. Facilities were purposively selected to represent different locations (urban and rural), different ownership types (government and private not-for-profit) and different types of facilities (hospitals, district hospitals, sub-district hospitals, health centres, general clinics and International Planned Parenthood Federation affiliated SRH clinics). An overview of the study sites, and their size, in terms of staffing numbers and overall outpatient visits, is provided in the online appendix. Ethics approval for the larger Integra Initiative was obtained from the Kenya Medical Research Institute National Ethical Review Committee, and the Swaziland Scientific Review Board.

## METHODOLOGICAL APPROACH

Cost and output data for both services were collected retrospectively at the facility level for the 2008–2009 fiscal year from

financial records and routine monitoring data. A combination of standard step-down and micro-costing methods was used to estimate the financial and economic costs of providing HCT services from a health provider perspective. (Financial costs represent actual expenditures on goods and services purchased, while economic costs include the estimated value of all resources, including donated or subsidised goods and services). Costs were classified as capital or recurrent costs.

Capital costs included costs of space, furniture and equipment and staff training. Equipment and furniture replacement value was obtained from the Ministry of Health for the public facilities, and retail sellers for the private health facilities, and costs were annuitised using a discount rate of 3%.<sup>15</sup>

Recurrent costs included staff costs, building maintenance, communications and stationery, diagnostics and supply. Where staff were shared across different activities, time usage was measured by a combination of observation, interviews with staff and their managers, and was confirmed by examining records on clients seen. Other items were measured through a combination of observation of resource use and supplies, and expenditure records.

Unit costs were obtained by dividing total costs by the relevant output indicators. Local currencies were converted to US dollars (\$) using an exchange rate of 78.79 Kenyan shillings per US dollar (\$), and 7.85 Swaziland emalangeni per US dollar.<sup>16</sup> All costs are presented in US dollar rates prevailing in 2009. Data analysis was conducted using Microsoft Excel 2007 and Stata (V.11.0: Stata Corporation).

## RESULTS

The provision of HCT services varies considerably across facilities in both countries. Table 1 presents the summary of service outputs by facility type in Kenya and Swaziland. In Kenya, VCT was found to be the predominant mode of delivery of HCT, particularly at the district hospital and private SRH clinics. In Swaziland, the picture was mixed. The public facilities recorded higher proportions of VCT clients, whereas, the private SRH clinics reported more people accessing PITC services.

The proportion of clients seeking counselling, who then received a test, was almost 100% for both VCT and PITC services in both countries; except for PITC at the private SRH clinics. Only

**Table 1** Average (mean) outputs for each facility type in Kenya and Swaziland

Kenya (N = 20)	Provincial hospital (n = 1)	District hospital (n = 5)	Sub-District hospital (n = 5)	Health centre (n = 4)	Private SRH clinic (n = 5)
PITC					
Clients counselled only	3094	942	419	779	562
Clients C&T (% of total counselled)	3094 (100)	934 (99)	418 (99)	771 (99)	269 (48)
Clients HIV positive (% of total C&T)	488 (16)	145 (15)	42 (10)	105 (14)	Not available
VCT					
Clients counselled only	3042	2416	664	519	2374
Clients C&T (% of total counselled)	3042 (100)	2411 (99)	664 (100)	514 (99)	2374 (100)
Clients HIV positive (% of total C&T)	913 (30)	193 (8)	64 (10)	73 (14)	284 (12)

Swaziland (N = 8)	Hospital (n = 1)	Health centre (n = 4)	Public health unit (n = 1)	Private SRH clinic (n = 2)
PITC				
Clients counselled only	1657	303	1976	2134
Clients C&T (% of total counselled)	1657 (100)	303 (100)	1976 (100)	936 (44)
Clients HIV positive (% of total C&T)	867 (52)	174 (57)	675 (34)	135 (14)
VCT				
Clients counselled only	2818	1291	1357	605
Clients C&T (% of total counselled)	2818 (100)	1289 (99)	1357 (100)	597 (99)
Clients HIV positive (% of total C&T)	1200 (43)	523 (41)	887 (65)	88 (15)

44%–48% of clients counselled through PITC were also tested in the SRH clinic. The proportion testing positive was found to be particularly high for VCT at the provincial hospital in Kenya, and for all HCT in Swaziland throughout the public facilities.

The total annual facility average costs of delivering HCT services and cost profiles across all facility types are summarised in table 2. In Kenya, the average total annual costs ranged between US\$1863 in the SRH clinics and US\$16723 in the provincial hospital for PITC; and US\$2768 in the sub-district hospitals and US\$4836 in the provincial hospital for VCT services. The largest components of costs for PITC across facility types were personnel costs (35%–49%) and recurrent supplies costs (which include diagnostics and supplies) (44%–62%). Similarly for VCT, the main cost component across facility types was personnel (41%–64%) and recurrent supplies (32%–53%). For both PITC and VCT services, capital and other recurrent costs were low.

In Swaziland, the average total annual costs ranged between US\$3233 in the health centres and US\$22362 in the hospital for PITC. For VCT, the average total annual costs ranged from US\$9767 in the SRH clinics to US\$54414 in the hospital. As with Kenya, the major cost components for HCT services across all facility types were recurrent supplies costs (39%–87% for PITC and 28%–70% for VCT) and personnel costs (11%–60% for PITC and 13%–70% for VCT).

Table 3 presents a breakdown of average cost per PITC and VCT client counselled and tested (C&T), and the average cost per HIV-positive diagnosis. The average cost per client C&T (including diagnostics and supplies) through PITC ranged from US\$4.81 in the health centres to US\$6.11 in the SRH clinics in Kenya, and from US\$6.92 in the PHU to US\$13.51 in the SRH clinic in Swaziland. Average costs per client C&T through VCT

ranged from US\$5.05 in the health centres to US\$16.05 in the provincial hospital, and from US\$8.68 in the PHU to US\$19.32 in the hospital in Kenya and Swaziland, respectively.

Figure 1 shows the comparison of unit costs by HCT service and facility type in both Kenya and Swaziland. Costs per client C&T through VCT are generally higher than cost per PITC client C&T across the different facility types in Kenya. In contrast in Swaziland, the unit costs per PITC were higher than unit costs per VCT client C&T in three of the health centres and the SRH clinics.

The cost per HIV-positive client identified ranges from US\$34.27 to US\$140.55 in Kenya, and US\$13.28 and US\$126.88 in Swaziland (table 3). In Kenya, the cost per client diagnosed as HIV positive through PITC and VCT was lowest at the provincial hospital. In Swaziland, the cost per client diagnosed as HIV positive through both PITC and VCT approaches was lowest in the PHU at US\$20.26 and US\$13.28, respectively.

Aside from capital costs in health centres in Swaziland, most of the variation in average costs per client C&T is driven by costs of human resources. We found little variation in salaries costs (including cadre of staff used). To explain the variation in personnel costs between facilities and different approaches to HCT, staff workload was measured by the number of clients C&T per staff full-time equivalency. A correlation analysis across both countries between the unit salaries cost per HCT visit, and this measure of staff workload shows a negative coefficient (0.39631) with a p value of (0.0025).

## DISCUSSION

Our findings suggest that in Kenya and Swaziland, PITC services compare favourably with VCT in terms of cost per client C&T

**Table 2** Annual economic cost of delivering VCT and PITC services for each facility type (US\$ rates in 2009)

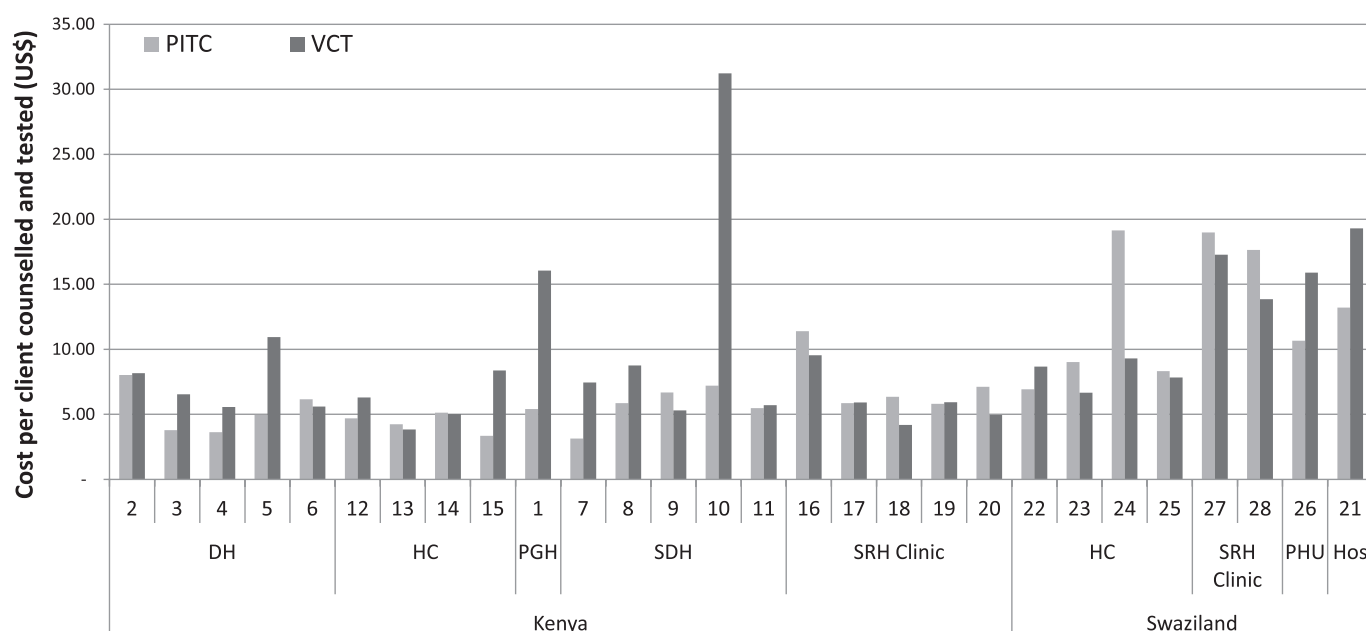
Table 2 Annual economic cost of delivering PITC and VCT services for each facility type (2004 rates in US\$)						
Type of cost (Average, US\$)	Provincial hospital (n = 1)	District hospital (n = 5)	Sub-district hospital (n = 5)	Health centre (n = 4)	Private SRH clinic (n = 5)	Average
Kenya						
PITC Service						
Annual economic cost	16 723	5182	1854	3004	1863	3721
Capital cost (% of total cost)	126 (1)	91 (2)	54 (2)	118 (3)	152 (8)	104 (3)
Personnel cost (% of total cost)	8066 (48)	2533 (49)	568 (35)	1096 (35)	793 (43)	1624 (44)
Recurrent supplies (% of total cost)	7911 (47)	2416 (47)	1106 (62)	2081 (61)	821 (44)	1898 (51)
Other recurrent (% of total cost)	620 (4)	142 (2)	9 (1)	20 (1)	97 (5)	94 (3)
VCT Service						
Annual economic cost	48836	16341	5699	2768	13086	11969
Capital cost (% of total cost)	276 (1)	125 (1)	86 (2)	87 (3)	1159 (9)	374 (3)
Personnel cost (% of total cost)	29093 (59)	10398 (59)	3285 (64)	1200 (42)	5435 (41)	6474 (54)
Recurrent supplies (% of total cost)	16675 (34)	6590 (37)	1633 (32)	1511 (53)	5232 (40)	4500 (38)
Other recurrent (% of total cost)	2791 (6)	540 (3)	78.53 (2)	58 (2)	1260 (10)	621 (5)
Type of cost (Average, US\$)	Hospital (n = 1)	Health centre (n = 4)	PHU (n = 1)	Private SRH clinic (n = 2)	Average	
Swaziland						
PITC Service						
Annual economic cost	22 362	3233	13 674	17 385	10 407	
Capital cost (% of total cost)	57 (0.3)	504 (16)	93 (1)	318 (2)	351 (3)	
Personnel cost (% of total cost)	13073 (60)	1137 (35)	1451 (11)	3658 (21)	3299 (32)	
Recurrent supplies (% of total cost)	8582 (39)	1539 (48)	12055 (87)	8411 (48)	5452 (52)	
Other recurrent (% of total cost)	181 (0.8)	52 (2)	74 (1)	4992 (29)	1306 (13)	
VCT Service						
Annual economic cost	54 414	12 003	11 777	9767	16 716	
Capital cost (% of total cost)	242 (0.4)	113 (1)	598 (5)	89 (1)	184 (1)	
Personnel cost (% of total cost)	38032 (70)	4609 (38)	2674 (23)	1282 (13)	7713 (46)	
Recurrent supplies (% of total cost)	15366 (28)	6585 (55)	8314 (70)	4713 (48)	7431 (44)	
Other recurrent (% of total cost)	773 (1)	696 (6)	191 (2)	3681 (38)	1389 (8)	

**Table 3** Average unit cost per person counselled and tested, breakdown of unit cost by input type and cost per person testing positive (US\$ rates in 2009)

Facility type/type of cost	Provincial hospital (n = 1)	District hospital (n = 5)	Sub-district hospital (n = 5)	Health centre (n = 4)	Private SRH clinic (n = 5)	Average
Kenya						
PITC						
Capital	0.04	0.06 (0.01–0.19)	0.42 (0.05–1.27)	0.26 (0.06–0.48)	0.51 (0.36–0.65)	0.30
Personnel	2.61	2.22 (0.97–5.30)	2.40 (0.75–3.85)	1.41 (0.82–2.06)	2.60 (1.64–4.08)	2.22
Other recurrent	2.76	2.60 (2.42–2.95)	3.03 (2.37–4.01)	2.68 (2.45–2.98)	3.00 (2.15–4.23)	2.83
Mean cost per client C&T	5.41	4.92	5.82	4.81	6.11	5.71
Mean cost per client diagnosed HIV positive	34.27	47.02	45.65	110.40	(Not available)	46.96
VCT						
Capital	0.09	0.07 (0.01–0.17)	0.31 (0.07–0.56)	0.20 (0.01–0.38)	0.50 (0.31–0.81)	0.26
Personnel	9.56	4.39 (1.91–8.88)	9.8.41 (0.92–27.66)	2.55 (0.04–4.87)	2.83 (1.51–5.40)	4.89
Other recurrent	6.40	3.01 (2.60–2.61)	2.97 (2.50–4.32)	3.04 (2.72–3.74)	4.01 (2.97–5.34)	3.42
Mean cost per client C&T	16.05	11.86	11.69	5.05	7.34	8.27
Mean cost per client diagnosed HIV positive	53.49	97.97	140.55	123.64	93.15	110.32
Facility type/type of cost	Hospital (n = 1)	Health centre (n = 4)	PHU (n = 1)	Private SRH clinic (n = 2)	Average	
Swaziland						
PITC						
Capital	0.03	3.17 (0.01–12.38)	0.05	0.29 (0.23–0.35)	1.67	
Personnel	7.89	3.40 (1.65–4.95)	0.73	2.06 (0.86–3.25)	3.29	
Other recurrent	5.29	5.22 (5.08–5.54)	6.14	11.16 (11.03–11.30)	6.83	
Mean cost per client C&T	13.21	11.79	6.92	13.51	7.79	
Mean cost per client diagnosed HIV positive	25.25	20.88	20.26	126.88	47.85	
VCT						
Capital	0.09	0.09 (0.04–0.16)	0.44	0.14 (0.07–0.22)	0.15	
Personnel	13.50	4.17 (1.32–10.13)	1.97	0.96 (0.80–1.12)	4.26	
Other recurrent	5.73	5.65 (5.23–6.23)	6.27	10.60 (9.82–11.37)	6.98	
Mean cost per client C&T	19.32	9.91	8.68	11.70	9.44	
Mean cost per client diagnosed HIV positive	45.35	24.52	13.28	103.87	45.56	

and cost per client diagnosed as HIV positive. In Kenya, we find that VCT at hospitals tends to identify proportionally more clients who are diagnosed as HIV positive than PITC. However, the picture is slightly different in Swaziland, where all levels of publicly owned services find high proportions of HIV positives

among those tested (34%–65%). The exceptions to this are the private SRH clinics. The private clinics also have a much lower proportion of those receiving counselling than going onto being tested; possibly revealing the more voluntary nature of their provider initiative testing. Unfortunately, we were not able to

**Figure 1** Variation in cost per client counselled and tested in Kenya and Swaziland (US\$ rates in 2009). DH, District hospital; HC, Health centre; PGH, Provincial general hospital; SDH, Sub-district hospital; PHU, Public health unit; Hos, Hospital.



confirm in either setting whether positive tests were the first or a repeat result and, thus, draw conclusions about cost-effectiveness in terms of identifying new cases of HIV.

Our cost results are consistent with findings from other studies. A recent review of the efficiency gains of integrating HIV services into general health services identified a number of studies suggesting that the cost of integrated HCT in general health services is lower than that in VCT centres.<sup>17</sup> However, all these were of a considerably smaller size than this study (1–4 sites),<sup>18–20</sup> so no firm conclusion was possible.

Overall, the variation in unit costs between sites of a similar level suggests that there is considerable room for efficiency gain in HCT services. A substantial element of cost variation is accounted for by differences in personnel costs across settings. While there were some salary differentials between sites within each country, these were relatively minor, so the main driver of personnel costs was staff workload. Differences in staff workload can be partly explained by differences in model (such as group counselling) and, in part, by the organisation of service delivery, where staff are used for multiple purposes, and thus, are busier. However, it should be noted that in several of the facilities, the low costs of PITC are, in part, achieved by some staff facing exceptionally high workloads and, therefore, the 'efficiency' observed may come at a price of decreasing staff morale, possibly leading to services of poorer quality.

Not all VCTs, however, had a higher cost than PITC at the same site. The fact that some VCTs achieve a high workload demonstrates that there is nothing inherent in the VCT model that makes it less efficient in this regard. However, where VCT workloads are low, a stand-alone organisational structure, and limited training of counsellors may inhibit the efficient use of staff as they cannot be shared with other services. For this reason, more attention needs to be given to either better location or promoting VCT services in order that they are fully utilised; or to adding more services to VCT sites, to ensure that staff are used to a maximum to meet the needs of their clients. Recent efforts to include both TB-intensified case finding and the provision of FP through VCTs,<sup>21–23</sup> thus offer feasible ways to improve the efficiency of these services.

A simple reading of our results would suggest that policy makers wishing to maximise the number of HIV-positive clients identified under budget constraints, should prioritise PITC. However, this would be incorrect, as our results also suggest the factors that drive efficiency (the demand for services, HIV prevalence and staffing) are context specific. Moreover, PITC and VCT services are not perfect substitutes for one another in all settings. Clientele attending VCT may be different from those accessing PITC. In particular, while integrated HCT within maternal and child health units is largely targeted at women of reproductive age, VCT services may be more able to meet the needs of other segments of the population, including adult men and adolescents. VCT may also be a better venue for activities, such as couple counselling, and may also be preferred by some people for other reasons, such as providing more specialised HIV services, and being better able to connect clients who test positive for HIV to services and peer-support groups. This suggests that while there is room for substantial improvement in efficiency in HCT services through the shared and integrated use of resources, this needs to be balanced with other programme objectives.

Finally, this study has a number of limitations that should be taken into account when interpreting our findings. First, the unit cost analysis was conducted retrospectively, which meant that staff observation could only be done at the end of the period for which we had full financial data. Second, we used

## Key messages

- ▶ PITC compares favourably with VCT in terms of cost per client C&T and cost per client diagnosed as HIV positive in Kenya and Swaziland.
- ▶ Overall, the variation in unit costs between sites of similar levels suggests that there is considerable room for efficiency gain in HCT services.
- ▶ Considerations of how to deliver services efficiently need to be informed by local contextual factors, including HIV prevalence, service demand and human resource availability.
- ▶ Quality of HCT services should not be compromised either by overstressing providers or by undermining important considerations regarding consent, confidentiality and client rights.

routine monitoring data on service statistics to estimate unit costs. Variations in the completeness of monitoring data compiled may, therefore, have contributed to the variation in unit costs documented. Third, our sample only included 28 health facilities in Kenya and Swaziland. While this is much larger than previous studies, it remains insufficient for a full econometric analysis to quantitatively assess the influence of the different cost drivers. However, a second round of costing is currently underway to help further investigate cost drivers by examining changes over time. Fourth, our analysis does not include comparisons with other forms of HCT, such as home-based HCT. Lastly, the study did not measure the client costs incurred in accessing HCT services. The exclusion of these costs underestimates the true health systems and societal costs of accessing these services.

## CONCLUSIONS

In the context of significant policy interest in optimising scarce HIV resources, this study demonstrates that there may be potential for substantial gains in efficiency in the provision of HCT services in both Kenya and Swaziland. The results can be used by those planning and providing both SRH and HIV services to improve programme efficiency and performance.

Our research highlights the importance of a programme science approach where planners and implementers jointly develop an intervention, and focus on operational research to strengthen the evidence base on how to improve the use of resources for HIV services. This model also provides important opportunities for the academic and international HIV community to systematically learn from large-scale HIV programme investments about how to efficiently deliver HIV programmes at scale.

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**Correction notice** This article has been corrected since it was published Online First. The sentence 'In a twice-daily bid to encourage HCT uptake to population groups with

limited access to existing services, the Ministries of Health of both Kenya and Swaziland mandated PITC throughout the health sector in 2008.' has been updated to read 'In a bid to encourage HCT uptake to population groups with limited access to existing services, the Ministries of Health of both Kenya and Swaziland mandated PITC throughout the health sector in 2008.' Also, the repeat of the following sentence has been deleted "Financial costs represent actual expenditures on goods and services purchased, while economic costs include the estimated value of all resources, including donated or subsidised goods and services."

**Competing interests** None.

**Ethics approval** Ethics approval was provided by London School of Hygiene and Tropical Medicine; Population Council Institutional Review Board; Kenya Medical Research Institute National Ethical Review Committee; Swaziland Scientific Review Board.

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Appendix: **Sample characteristics of facilities in Kenya and Swaziland**

	Facility Type	Health Facility Study Identifier	Number of clinical staff (full-time equivalents) in 2008	Number of outpatient visits in 2008
<b>Kenya</b>	Provincial Hospital (n=1)	1	297	22,056
	District Hospital (n=5)	2	288	51,574
		3	210	34,088
		4	174	36,806
		5	147	29,650
		6	86	23,393
	Sub district Hospital (n=5)	7	15	16,611
		8	14	22,198
		9	12	24,137
		10	6	8,466
		11	4	14,269
	Health Centre (n=4)	12	14	24,601
		13	6	20,135
		14	4	11,030
		15	3	21,221
	Private SRH Clinics (n=5)	16	15	22,820
		17	12	15,582
		18	5	16,583
		19	4	16,683
		20	3	15,329
<b>Swaziland</b>	Hospital (n=1)	21	218	91,284
	Health Centre (n=4)	22	45	49,642
		23	30	18,870
		24	24	22,903
		25	23	22,937
	Public Health Unit (n=1)	26	12	54,592
	Private SRH Clinic (n=2)	27	6	28,039
		28	3	35,952