COSTING OF VOLUNTARY MEDICAL MALE CIRCUMCISION IN SOUTH AFRICA'S PRIVATE SECTOR

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BACKGROUND

Voluntary medical male circumcision (VMMC) reduces men's risk of becoming HIV infected by approximately 60%. A previous VMMC costing study at government and PEPFAR-supported facilities noted that the lack of sufficient cost data from the private sector represented a gap in knowledge concerning the overall cost of scaling up VMMC services in South Africa. The NDoH recognized that to expand coverage to reach its ambitious VMMC target, either within private or public-sector facilities, this research gap would need to be addressed. Thus the present study aimed to:

- Estimate the unit cost to provide VMMC at for-profit facilities in South Africa.
- Assess the cost drivers and cost variances across the provinces and different VMMC service delivery modes.

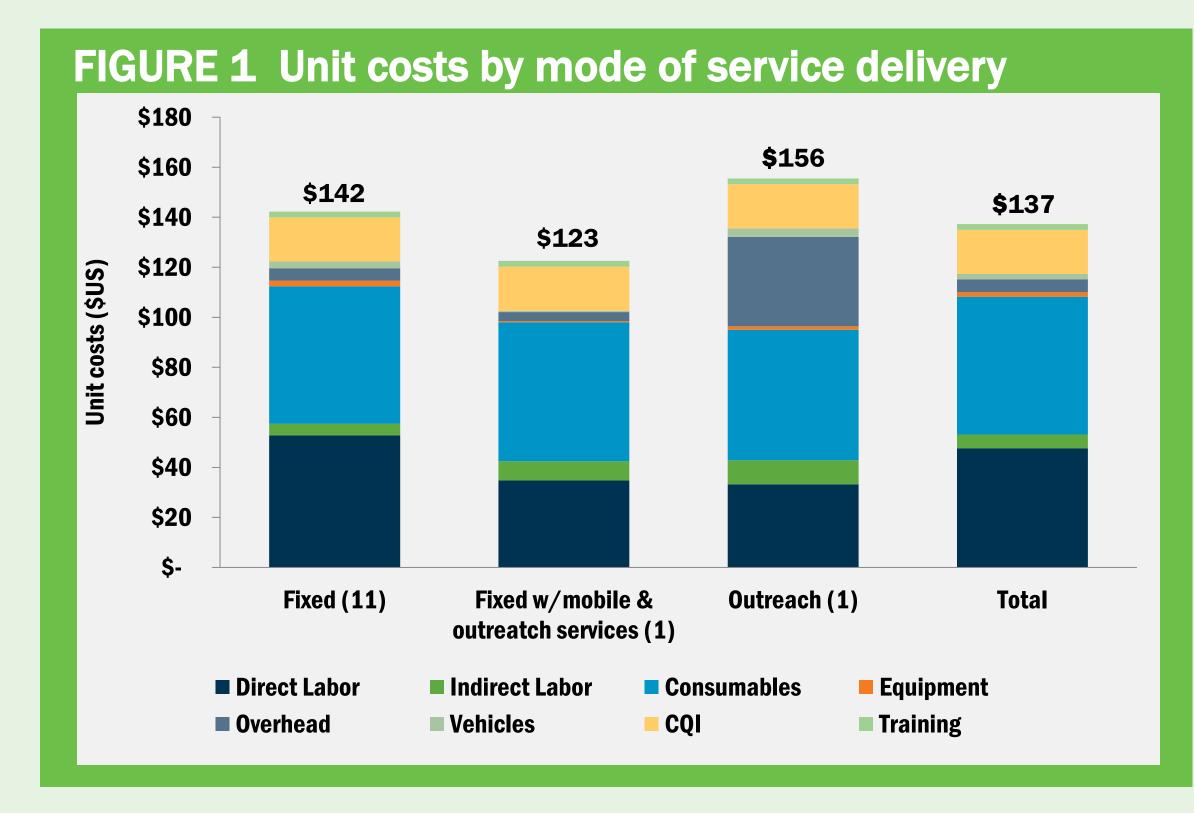


METHODS

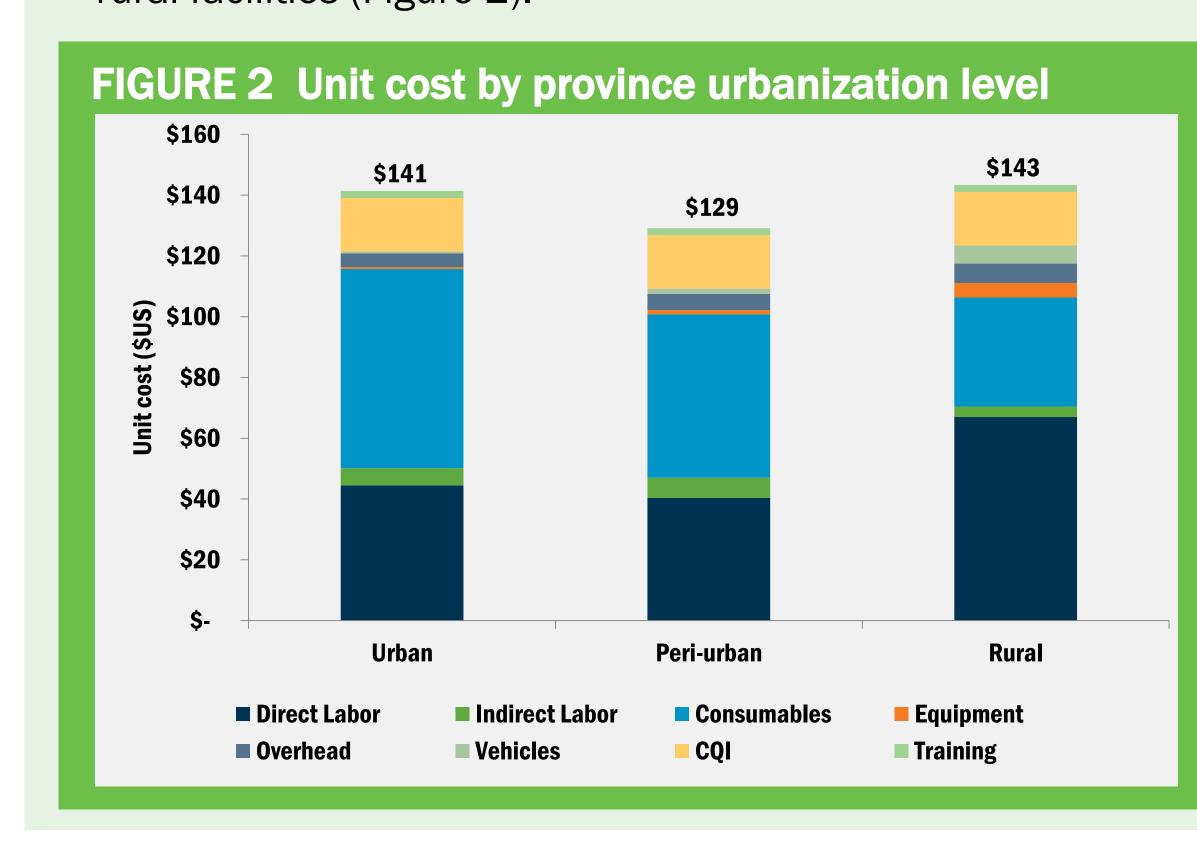
- With inputs from South Africa VMMC stakeholders on site selection, VMMC service delivery cost data were collected at 13 private for-profit urban, rural, and peri-urban facilities in three provinces in South Africa: Gauteng, KwaZulu-Natal, and Mpumalanga.
- Unit costs by the type and level of urbanization of the facility were calculated using a bottom-up approach where all inputs are listed, costs collected, and their contribution to the overall cost quantified.
- Supply chain, VMMC demand creation, and higher-level management and program support costs were not collected.

RESULTS

The unit cost (including the cost of training and continuous quality improvement) per circumcision performed at private for-profit facilities in South Africa in 2015/16 was US\$137 (R1,521) (Figure 1). Consumables and direct labor were comparable and accounted for 75% of total cost at for-profit facilities compared to 67% at public and nonprofit facilities.

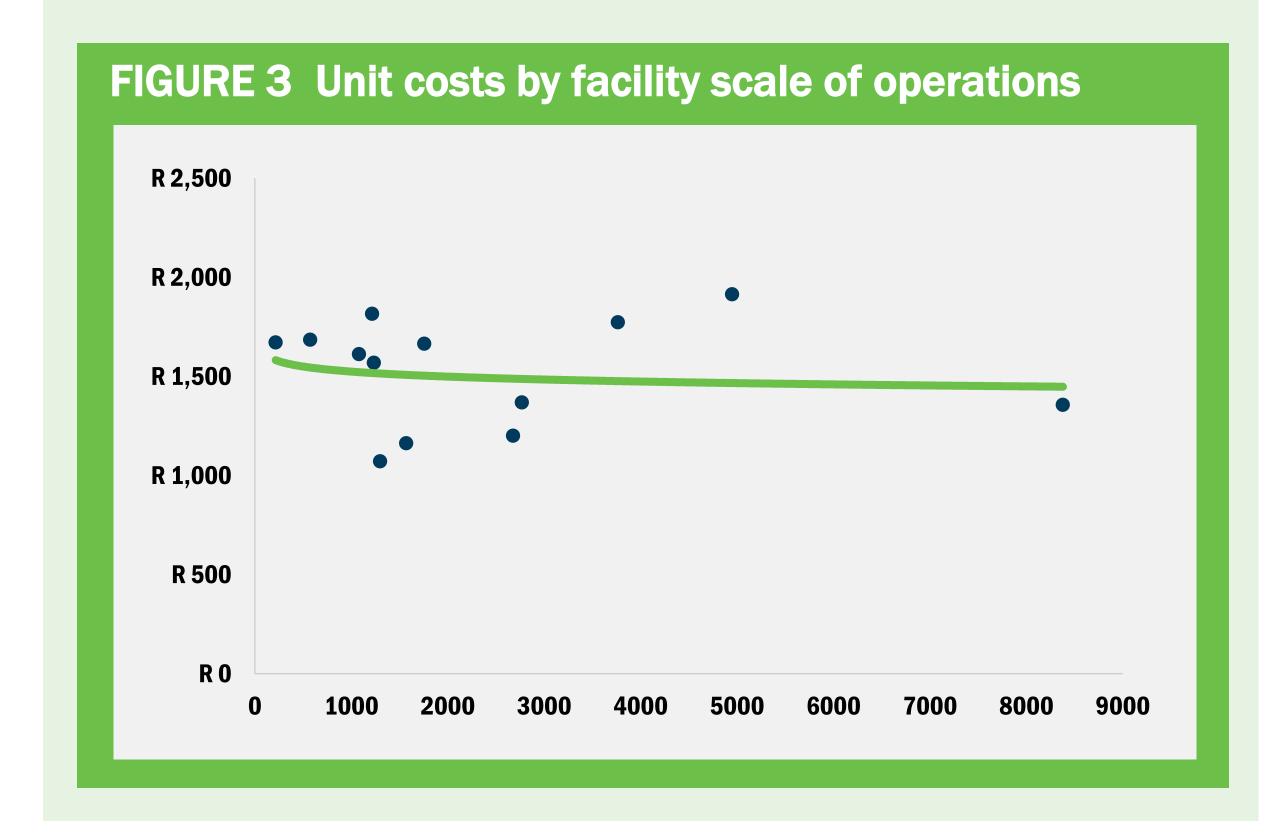


- The VMMC private sector unit cost (\$137) was not substantially different from the unit cost of \$132 at public and PEPFAR-supported nonprofit facilities.
- The unit cost was unrelated to the level of urbanization, respectively \$141, \$129, and \$143 at urban, peri-urban, and rural facilities (Figure 2).



RESULTS

- Median number (1,570) of VMMC clients seen at private facilities was 22% higher than at public facilities (1,229). ¹
 - Private for-profit facilities appear to be performing more circumcisions (June 2015–May 2016) than the public sector and PEPFAR-supported nonprofit facilities in 2014, accomplishing this at approximately the same cost (only 4% more) per circumcision performed.
 - 85% of private facilities performed more than 1,000 circumcisions annually compared to 52% of government and PEPFAR-supported facilities.
 - Small sample size with large variation around the unit cost may be masking the existence of a relationship between volume and unit cost (Figure 3).



CONCLUSIONS

- The private sector VMMC unit cost (\$137) did not differ substantially from the cost at government and nonprofit, PEPFAR-supported facilities (\$132).
- Private for-profit facilities appear to perform about 24% more circumcisions on average than the public sector and PEPFARsupported nonprofit facilities, accomplishing this at only 4% cost difference per circumcision performed.
- Results from this study complement unit cost data necessary to make informed decisions regarding the funding and scaleup of VMMC services in South Africa in both the private and public sectors.

REFERENCE

¹Tchuenche, M. et al. 2016. "The cost of voluntary medical male circumcision in South Africa," *PLoS ONE* 11(10): e0160207. doi.org/10.1371/journal.pone.0160207.

FUNDING AND CONTACT INFORMATION

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