

Strategic Prioritization of HIV Prevention for Young Women and Girls in West and Central Africa

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Methods

- ▶ Model: Spectrum/Goals-Age-Structured Model
- ▶ Countries: Cameroon, Côte d'Ivoire, and Nigeria
- ▶ Prioritization: interventions, districts, adolescent girls and young women (AGYW)
- ▶ Interventions:
 - ▶ School-based HIV education,
 - ▶ Social Asset Building,
 - ▶ Condom promotion,
 - ▶ Cash transfers,
 - ▶ Economic Empowerment,
 - ▶ Oral pre-exposure prophylaxis (PrEP)
 - ▶ Violence/post-violence care
- ▶ Costs and impacts of the interventions were obtained from published literature
- ▶ Modeling approach:
 - ▶ Ranked combinations of districts and interventions by cost-effectiveness
 - ▶ Selected the top 25th percentile of district-intervention combinations
→ prioritized scenario
 - ▶ Compared impact and total cost of prioritized scenario with a scenario in which all interventions were scaled up across all districts ("full scale")



Results

Measure	Cameroon	Côte d'Ivoire	Nigeria
Cumulative HIA, as percentage of max HIA at full scale	39.5%	30.8%	43.9%
Cumulative resource needs, as percentage of max resource needs at full scale	1.1%	1.5%	3.1%
Min cost per HIA of interventions at threshold	\$2,256	\$5,454	\$3,962
Average cost per HIA of interventions at threshold	\$55,980	\$28,933	\$21,915
Max cost per HIA of interventions at threshold	\$152,626	\$58,207	\$42,035
Total cost of prioritized scenario over 3 years	\$92,510,419	\$26,127,757	\$211,279,506
% reduction new infections 2025 relative to 2019	32.3%	30.9%	11.3%



Constraints on prioritization

