

Unit and Total Costs of HIV/AIDS Services provided in Zambian Public Health Facilities

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THE SCIENCE OF IMPROVING LIVES

Background

- Robust global response to HIV pandemic
 - US\$13.8B in global funding in 2009
 - Ten-fold increase in numbers of persons receiving ART from 2002 to 2008
 - Doubling of women receiving PMTCT from 2006-2008
- But need continues to outstrip available resources
 - 7,400 new infections per day worldwide
 - Fewer than half of HIV+ receive ART and PMTCT
 - Growing "funding gap" of US\$ 6B in 2009, US\$11B in 2010



Scarcity of Economic Data Hinders Programs



- 2006 review found only seven studies of full ART costs, few additional studies conducted since
- Difficult to move toward greater efficiency and sustainability without information on current resource use
- Budgeting for treatment scale-up problematic in absence of solid cost data

Study Setting

- Zambia Prevention, Care and Treatment Partnership (ZPCT) funded by PEPFAR through USAID/Zambia
- ZPCT works through Ministry of Health (MoH) and provincial and district health offices to strengthen and expand HIV/AIDS clinical services in five provinces
- Promotes novel strategies such as outreach ART, volunteer counselors and adherence support workers, PMTCT motivators
- Provides technical assistance and management support to MoH staff at all levels



Study Goal and Objectives

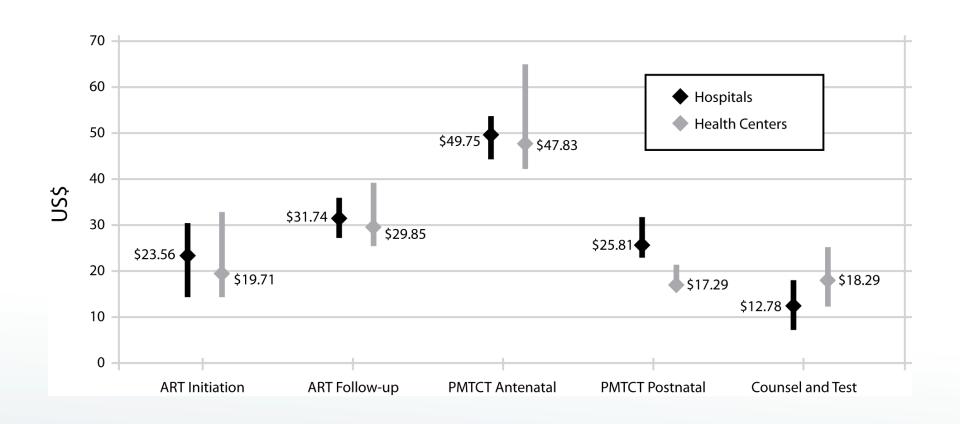
- Goal: to add to the evidence base on unit costs of outpatient HIV/AIDS services in the African context
- Objectives:
 - to calculate unit costs of HIV/AIDS outpatient services provided in selected facilities, and to measure the components of unit cost
 - to use findings to estimate annual cost per client for PMTCT and ART,
 and total annual costs of services in Zambia



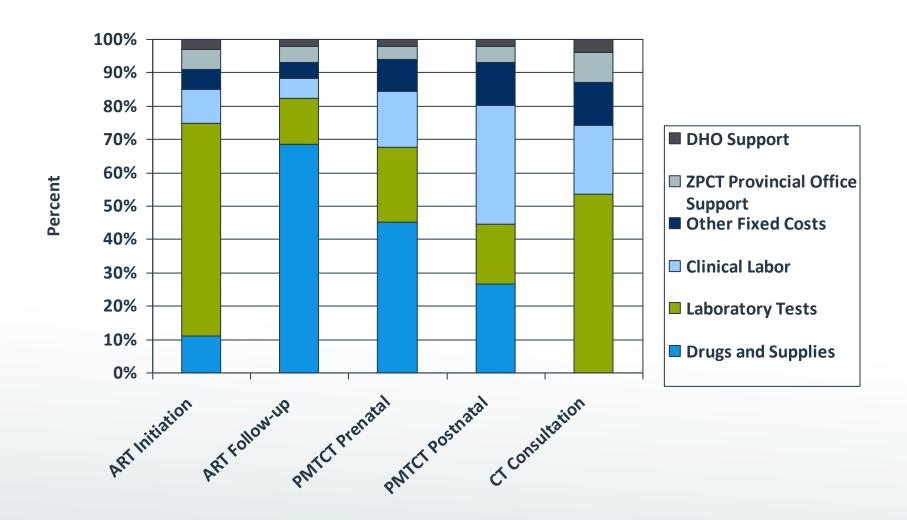
Methods

- Purposively selected 12 ZPCT-supported facilities in four provinces
- Costs of ART, PMTCT and CT services estimated from health care provider perspective
- Used "ingredients" approach: identified relevant resources, measured resource use in natural units, assigned values to resources, and allocated shared resources to outputs
- Estimated annual per-client costs of ART and antenatal care including PMTCT assuming specific visit schedules and drug regimens

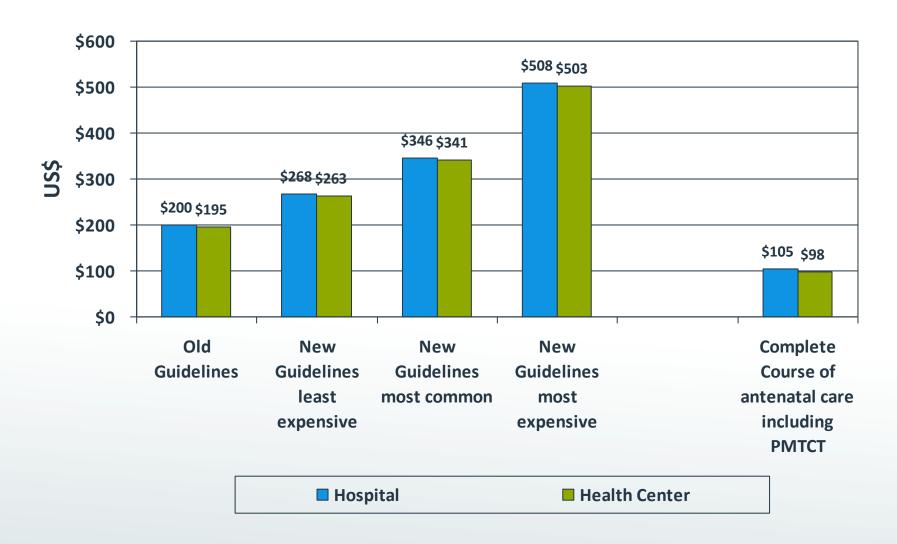
Cost per Visit in Zambian Hospitals and Health Centers, 2008



Cost Components by Type of Visit



Annual per-client costs of ART and ANC+PMTCT, 2008





Annual ART and ANC+PMTCT Costs for Zambia, 2009





Conclusions

- Consistent with literature, costs of ART services driven by costs of drugs and laboratory tests
- Recent WHO recommendations are exerting upward pressure on total drug costs
- Can be misleading to use average costs to estimate total costs but OK in this case
- Costs of capital very low worth the research effort?
- Data availability issues make these studies very challenging



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