

Health Center Space Requirements in 2008 Compared to FMOH Standards (1998 and 2006)

When compared to the 1998 FMOH HC standard, the layout, space and functional requirements for HCs in 2008 have changed dramatically. Now, 90% more space is needed just to house the new services recently transferred or being transferred to HCs.¹ This finding is illustrated in the accompanying table. Here, the total space and number of rooms needed to provide the required services for the 2008 model HC are compared with those for the:

- a) 1998 FMOH HC standard, and
- b) 2006 FMOH “emerging” or “nucleus” HC design.

(The latter design is being used to construct over 2,000 new “nucleus” HCs, and/or to convert existing health stations to HCs in the next 2-3 years.)

As documented in this table, compared to the 2008 HC requirements both the 1998 and 2006 FMOH HC are inadequate to meet the current service delivery needs. The areas most lacking are:

- MCH – only 1 room for all MCH activities in both the 1998 and 2006 standard design
- HIV/AIDS – no dedicated space in either current FMOH standards
- General stores – only 13 m² in the 1998 standard and none in the 2006
- Special stores – no dedicated space in either current FMOH standards

The implications of these findings impact not only on the current massive new HC construction plans, but also extend to the more than 600 existing HCs, including even relatively new ones (i.e., those less than 10 years old) built to the 1998 FMOH standard. All require considerable renovation to accommodate the new HIV/AIDS, chronic disease and support services being added. Moreover, because of the skyrocketing construction costs and increased functional requirements, the estimated cost (in FY 2008 USDs) to build the different types of HCs ranges from a high of \$550,000 to \$700,000 for 2008 Model to a low of \$146,000 to \$198,000 for the GTZ-IS type.^{2,3} While the cost to build new HCs to the 2008 model is considerably more than the 1998 FMOH standard, the cost to renovate the over 600 existing HCs and 2,000 new “nucleus” HCs currently planned or under construction will be even more expensive on a per HC basis.

¹ PEPFAR COP07. Services include: VCT, CT and PMTCT; adult, young child and infant ART and OIs; mother support group (MSG), ART adherence and prescription-based distribution; laboratory; ARV pharmacy and dispensary; and ARV and OI drug stores.

² Health center new construction cost estimates are based on the data obtained from the *Accelerated Expansion of PHC Coverage in Ethiopia, 2005-2009*. FMOH, November 2004. For each subsequent year (2006 and 2007), the cost has been increased by 10%.

³ The range of estimated costs for each type of HC takes into account where the new HC will be located (e.g., building costs are considerably higher in rural or remote areas.)

Health Center Space Requirements: 2008 Estimate versus FMOH Standards (1998 and 2006)

Essential Health Services Requirements (2008)	HSDP I Standard (1998)	HSDP III (Nucleus Type) Standard (2006)
OUTPATIENT DEPARTMENT	OUTPATIENT DEPARTMENT	OUTPATIENT DEPARTMENT
Registration (1)	Registration	Registration
Archive Records (1)	Fee Collection	Fee Collection
Fee Collection(1)	Examination	Examination
Duty Cashier (1)	Medical Supplies Store	Medical Supplies Store
Examination (2)	Treatment/Emergency/Dressing	Treatment/Emergency/Dressing
Medical Supplies Store	Pharmacy General/Budget	Laboratory
Treatment/Emergency/Dressing (1)	Pharmacy sub waiting	Waiting Area (Covered)
Duty Nurse (1)	Laboratory	OPD Dry Latrine (FM)
Injection (1)	Waiting Area (Covered)	
Pharmacy General/Budget (1)	OPD Dry Latrine (FM)	
Pharmacy sub waiting		
Special Pharmacy (1)		
Duty Pharmacist (1)		
Laboratory(1)		
Waiting Area (Covered) (1)		
OPD Dry Latrine (FM)		
WARD	WARD	WARD
Nurse Station (1)	Nurse Station	Nurse Station
Female and pediatric ward (1)	Female and pediatric ward	Female and pediatric ward
Male ward (1)	Male ward	Male ward
IPD latrine (2)	IPD latrine	IPD latrine
Delivery	Delivery	Delivery
Pre-Labor (36 wk examination)? (1)	Pre-Labor (36 wk examination)?	Pre-Labor (36 wk examination)?
Labor (with toilet and shower) (1)	Labor (with toilet and shower)	Labor (with toilet and shower)
Delivery (2 tables) (1)	Delivery (2 tables)	Delivery (2 tables)
Postnatal (with toilet) (1)	Sluice	Sluice
FP/Adolescent RH counseling (1)	Sterilization & clean store	Sterilization & clean store
Midwife Station(1)	Laundry	Laundry
Sluice (1)	Staff changing/rest room (M/F)	
Sterilization & clean store (1)		
Staff Toilet(1)		
Laundry		
Staff changing/rest room (M/F) (2)		
Waiting Area (covered) (1)		
OR	OR	OR

Scrub up (1) Minor surgery/MVA (1)	Scrub up Minor surgery/MVA	
MCH	MCH	MCH
Antenatal/PMTCT (1) Family Planning(1) Mothers' Support Group (1) EPI (1) IMCI and OIs (1) ART (infant and child) (1) Nutrition Feeding for infants (1) Waiting area (covered) (1)	MCH	VCT
HIV/AIDS AND OI	HIV/AIDS AND OI	HIV/AIDS AND OI
CT (counseling & testing) (1) Laboratory (CT, PMTCT & TB) (1) ART dispensary & counseling (1) ART adherence (1) Pediatric ART Counseling (1) TB and other chronic diseases treatment (1) Waiting area (covered) (1)		
ADMINISTRATION	ADMINISTRATION	ADMINISTRATION
Health Officer (in-charge) (1) General Purpose/Meeting Room (1) Public Health Team/ Multi purpose room (1) Purchaser (1) Administrative Assistant (1) Finance(1) Secretary(1) Staff Toilet(2)	Health Officer (in-charge) General Purpose/Meeting Room Public Health Team/ Multi purpose room Secretary	
SUPPORT SERVICES	SUPPORT SERVICES	SUPPORT SERVICES
Guard house(1) OPD and IPD latrine(2) Housekeeping(1) Generator house(1) Morgue(1) Workshop(1) Car Port(1) Placenta Pit(1) Septic Tank(1)	Guard house OPD and IPD latrine Morgue Workshop Car Port	

Incinerator(1) Cleaner Dirty store		Cleaner Dirty store
GENERAL STORES	GENERAL STORES	GENERAL STORES
Office - store manager(1) Stores (ART, OIs, malaria, general, special, medical equipment etc) (1)	Stores (malaria, general, special, medical equipment etc)	
1083 Meter Square in total Usable area	536 Meter Square in total Usable area	306 Meter Square in total Usable area