Project Title

Using a Decision-Support Smartphone application to enhance Community Health Volunteers' effectiveness in reducing Maternal complications and reducing Newborn Deaths in the informal settlements of Nairobi, Kenya

	Objectively Verifiable Indicators		
Domain of inquiry	Indicators	Method of calculation	
1. Assess the feasibility and acceptability of using a decision-support module of mPAMANECH	Percentage time for which the system is down on a monthly basis	(Numerator: Number of times (in minutes) when the system is down Denominator : Total active time in a month. Down time defined as 30 minutes of hanging and Active time as time without hitches) * 100	
	Number of CHVs effectively using the decision support tool	Numerator: Number of CHVs able to either correctly refer or manage clients at home (target is 50 CHVs). Within the system, on a quarterly basis we will be able to generate reports on decisions made by the CHVs. These will also be compared to the control site that will only have a paper based system of data collection	
	Proportion of CHVs able to identify at least 4 danger signs among neonates	Numerator: Number of CHVs able to identify at least 4 danger signs among neonates (aged upto 28 days). Denominator: Total number of CHVs in the selected CUs (total 50 CHVs).	
	Proportion of CHVs able to identify at least 2 post-partum complications	Numerator: Number of CHVs able to identify at least 2 post-partum complications. Denominator: Total number of CHVs in selected Cus (total 50 CHVs)	
	Percentage of correct referral decisions by CHVs for post-partum mothers with complications	(Numerator: Number of correct referrals by CHVs for post-partum mothers with complications. Denominator: Total number of postpartum women referred.)*100	

	Percentage of correct referral decisions by CHVs for neonates (aged upto 28 days) with danger signs	(Numerator: number of correct referrals by CHVs for neonates (aged upto 28 days) with danger signs. Denominator: Total number of neonate referrals)*100
	Proportion of pregnant women referred for ANC by CHVs	Numerator: Number of pregnant women referred for ANC to selected health facilities by CHVs Denominator: Total number of women-pregnant seen by CHVs
	Proportion of mothers referred for PNC by CHVs	Numerator: Number of post-delivery women referred for PNC to selected health facilities by CHVs. Denominator: Total number of deliveries in selected facilities and at home
2. Determine the decision- support platform's effect on utilization of MNH services		
	Proportion of women attending at least 4 ANCs	Numerator: Number of pregnant women attending 4 or more ANC visits in project sites. Denominator: Total number of pregnant women seeking ANC services in the selected health facilities
	Proportion of all mothers attending at least 2 PNCs	Numerator: Number of mothers attending at least 2 PNCs in project sites. Denominator: Total number of postpartum women seeking PNC services in the selected health facilities.
	Proportion of deliveries assisted by trained personnel	Numerator: Number of assisted deliveries by trained personnel (at home or at the facility). Denominator: Total number of deliveries in the facilities and CUs covered by project
	first ANC within the 1st trimester	(Numerator: Number of women attending the first ANC within the first semester. Denominator: Total number of women attending ANC in project sites)*100
	Proportion of women referred by CHVs for post-partum family planning Proportion of newborns (aged upto	Numerator: Number of post-partum women referred and seen at facilities for family planning. Denominator: Total number of women referred in the facilities and Cus in project sites Numerator: Number of CHVs able to identify at least 4 danger signs among
	, ,	neonates (aged upto 28 days). Denominator: Total number of CHVs in the selected CUs (total 50 CHVs).

Proportion of low birth weight newborns (< 2500g) referred	Numerator: Number of low birth weight newborns (< 2500g) referred to selected health facilities. Denominator: Total number of live birth weighted in selected facilities
Proportion of women lost during follow up	Numerator: Number of women referred by CHVs who fail to report to the selected facilities. Denominator: Total number of women referred by CHV
Proportion of newborns (aged upto 28 days) lost during follow up	Numerator: Number of newborns (aged upto 28days) who failed to report to selected facilities. Denominator: Total number of newborns (aged upto 28 days) referred by CHVs