

Supplementary File 1: Sampling of the study participants in the ICDM pilot facilities

Health facilities	Number of patients recorded in the clinic appointment roaster in July 2013.				*Step 1 sampling: proportionate sampling from the health facilities	**Step 2 sampling: stratified sampling by chronic disease status		
	ART	HPT	DM	Total		ART	HPT	DM
A	724	642	-	1366	165	88	77	0
B	146	715	-	861	104	18	86	0
C	41	325	7	373	45	5	39	1
D	84	274	6	364	44	10	33	1
E	66	50	-	116	14	8	6	0
F	50	215	-	265	32	6	26	0
G	49	208	-	257	31	6	25	0
Total	1160	2429	13	3602	435	141	292	2

#ART, HPT and DM = HIV/AIDS, hypertension and diabetes mellitus patients, respectively.

***Step 1: proportionate sampling for each health facility was achieved by multiplying the sampling fraction by the total number of patients in each health facility**

Sampling fraction = $435/3602 = 0.1207$

Where 435 = calculated study sample size and 3602 = total sampling frame

Example of proportionate sampling for clinic A: $0.1207 \times 1366 = 165$, where 1366 is the total number of patients in health facility A.

****Step 2: stratified sampling in each health facility**

Example of stratified sampling in health facility A

53% (724/1366) and 47% (642/1366) of the total number of patients in health facility A were HIV and hypertension patients, respectively. Of the 165 patients recruited in health facility A, 53% (n=88) were HIV patients and 47% (n=77) were hypertension patients.

Sampling of patients in the comparison facilities

Health facilities	Number of patients recorded in the clinic appointment roaster in July 2013.				*Step 1 sampling: proportionate sampling from the health facilities	**Step 2 sampling: stratified sampling by chronic disease status		
	ART	HPT	DM	Total		ART	HPT	DM
A	365	115	-	480	58	44	14	0
B	231	175	-	406	49	28	21	0
C	107	125	-	232	28	13	15	0
D	233	156	-	389	47	28	19	0
E	1426	713	22	2161	261	173	86	2
Total	2362	1284	22	3668	443	286	155	2

#ART, HPT and DM = HIV/AIDS, hypertension and diabetes mellitus patients, respectively.

***Step 1: proportionate sampling for each health facility was achieved by multiplying the sampling fraction by the total number of patients in each health facility**

Sampling fraction = $443/3668 = 0.121$

Where 435 = calculated study sample size and 3668 = total sampling frame

Example of proportionate sampling for clinic A: $0.121 \times 480 = 58$, where 480 is the total number of patients in health facility A.

****Step 2: stratified sampling in each health facility**

Example of stratified sampling in health facility A

76% (365/480) and 24% (115/480) of the total number of patients in health facility A were HIV and hypertension patients, respectively. Of the 58 patients recruited in health facility A, 76% (n=44) were HIV patients and 24% (n=14) were hypertension patients.