



Supplement. Examples of different components of World Health Organization Digital Adaptation Kit

Supplement Figure 1. Example of personas (component 2) in family planning Digital Adaptation Kit

Nurse-Midwife, Rural Kenya






My Tasks


75% Maternal and child health along with comprehensive obstetric care:

- Administering immunizations.
- Meeting with women for routine antenatal care appointments.
- Educating women on the importance of family planning and family planning methods
- Supplying sexual and reproductive health services
- Providing skilled delivery in the maternity ward

25% Administrative duties:

- Set up clinic area.
- Fill out registers along with maternal and child health cards.
- Manage reproductive health and other supplies





My Workplace

Sub-County Hospital

- The sub-county hospital provides services for seven wards in the Western Region of Kenya and serves about 150,000 people, mostly subsistence farmers.
- The hospital operates 24 hours, although the clinic is only open from 8:00am – 5:00pm Monday through Saturday.
- Two nurses rotate through the maternity ward, reproductive health, and child health clinic.
- Two nurses and four community health workers have received ASRH training.

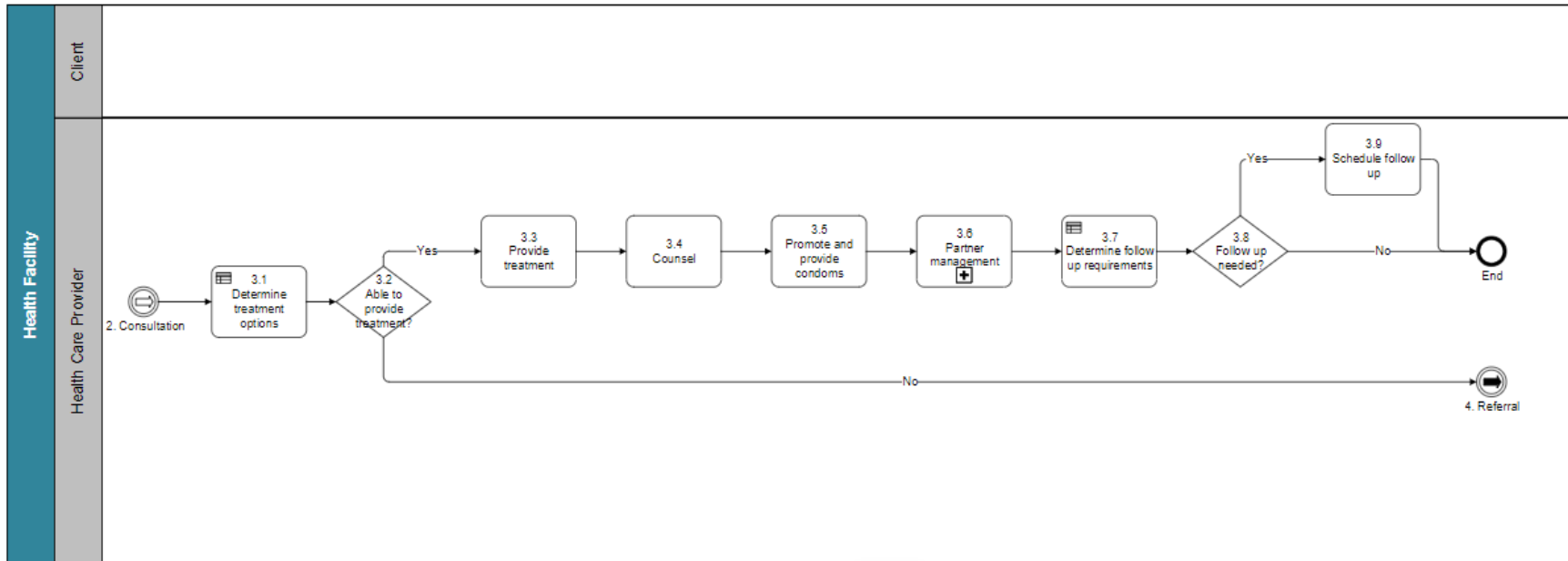
My Typical Day

- 8am** Arrive at work, begin my normal nursing agenda, check stock, and round on each service area
- 9am** Check clients that have arrived, provide group education if necessary and begin working cue
- 11am** Mother in maternity ward is about to give birth
Pause reproductive health services and attend to mother and child
- 1pm** Deliver birth dose of immunizations, take a quick lunch.
Check on other units and reproductive health cue
- 3pm** Community Health Worker alerts that a young girl has arrived and move her to the front of cue

“Tools are never enough. The regimen changes daily and needs to be continually updated.”

Supplement to: Tamrat T, Ratanaprayul N, Barreix M, et al. Transitioning to digital systems: the role of World Health Organization digital adaptation kits in operationalizing recommendations and standards. *Glob Health Sci Pract.* 2022;10(1):2100320. <https://doi.org/10.9745/GHSP-D-21-00320>

Supplement Figure 2. Example of workflow (component 4) in Sexually Transmitted Infection Digital Adaptation Kit



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Supplement Figure 3. Example of data dictionary (component 5) in HIV Digital Adaptation Kit

Activity ID	Data Element Label	Description and Definition	Multiple Choice Type (if applicable)	Data Type	Input Options	ICD-11 Code	ICD-11 URI	ICD-11 Comments / Considerations
HIV.H. Record outreach and result	Client outcome	The outcome for the client which is used for reporting retention. Included in total attrition from antiretroviral therapy (ART): death, stopped treatment and lost to follow-up. On antiretroviral therapy (ART) is included so that client outcome	Select one	Coding	N/A			
	Lost to follow up	Twenty-eight days or more since last missed appointment	Input Option	Codes	Lost to follow-up	Not classifiable in ICD-11		
	Transferred out	The client transferred to another facility	Input option	Codes	Transferred out	Not classifiable in ICD-11		
	Death (documented)	People living with HIV previously on antiretroviral therapy (ART) who are confirmed to have died from any cause.	Input option	Codes	Death (documented)	MH13	http://id.who.int/icd/entity/1876291018	Code title: Unattended death
	Refused (stopped) treatment	Client was contacted and confirmed to have stopped antiretroviral therapy (ART). (Reasons may include stigma and discrimination, faith healing, etc.)	Input option	Codes	Refused (stopped) treatment	QC49	http://id.who.int/icd/entity/1626712964	Code title: Personal history of noncompliance with
	On ART	Client is currently taking antiretroviral medication	Input option	Codes	On ART	XM63K0	http://id.who.int/icd/entity/1722279370	Code title: Anti-infective antiviral
	Date client outcome changed	The date on which the client's outcome (lost to follow up, transferred out, death (documented), or refused (stopped) treatment) changed	N/A	Date	N/A			
	Transfer confirmed	Select if transfer to another facility is confirmed	N/A	Boolean	True/False	Not classifiable in ICD-11		True False
	Transfer To facility	Name of health facility client was transferred to	Select one	Coding	N/A	Not classifiable in ICD-11		Free text field
	Date of transfer out	The date the client transferred out of the facility to be provided with care at another facility	N/A	Date	N/A	Not classifiable in ICD-11		Date
Adherence assessment	Whether client is adherent or not to antiretroviral therapy regimen per national guidelines (immunological or virological monitoring)		Boolean	True/False			Not classifiable in ICD-11	

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Figure 4. Example of decision-support logic table (component 6) in ANC DAK

Decision ID		ANC.DT.26 Pre-eclampsia risk counselling							
Business Rule		If the woman has risk factors for developing pre-eclampsia, provide counselling to reduce risk of developing pre-eclampsia							
Trigger		ANC.B6. Collect woman's profile & history							
Input(s)		Output	Action	Annotations	Reference(s)				
'Number of fetuses' ≥ 2	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g	The woman is at risk of developing pre-eclampsia: provide counselling; prescribe aspirin 75 mg daily until delivery (starting at 12 weeks gestation) and ensure that she continues to take her daily calcium supplement of 1.5–2 g until delivery for pre-eclampsia risk	Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
'Past pregnancy complications' = 'Pre-eclampsia'	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g		Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
'Past pregnancy complications' = 'Eclampsia'	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g		Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
'Past pregnancy complications' = 'Convulsions'	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g		Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
'Existing chronic health conditions' =	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g		Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
'Existing chronic health conditions' =	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g		Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
'Existing chronic health conditions' =	'Gestational age' ≥ 12 weeks	'Population with low dietary calcium intake' =	'Risk of pre-eclampsia' = TRUE	Provide pre-eclampsia risk counselling	'Amount of daily aspirin prescribed until delivery' = 75 mg	1.5 g ≤ 'Amount of calcium supplements provided' ≤ 2 g		Pregnancy, childbirth, postpartum and new care guide (2015): C3 (1) WHO pre-eclampsia and eclampsia	
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