

## Supplementary File 5- Digital Health Intervention Characteristics

Reference	Digital health intervention	Validated	Intervention use for	Technological component(s)	Targeted primary user	User training
Musyoka et al. [25]	24-hour ambulatory blood pressure monitoring system	Validated	Blood pressure data collection	F1 smart wristwatch Blood Pressure Monitoring Mobile Application Cloud Data center Caregiver's smartphone	Expectant mother and the caregiver	Not specified
Lim et al. [24]	Pre-eclampsia Integrated Estimate of RiSk (PIERS) on the Move (PotM)	Not specified	Demographics (gestational age at presentation), clinical signs (blood pressure, SPO2 and dipstick proteinuria), and symptoms (chest pain or dyspnoea, headache or visual disturbances, vaginal bleeding with abdominal pain)	mHealth platform	Mid-level health workers	Yes
Vousden et al. [34]	CRADLE (Community blood pressure monitoring in Rural Africa & Asia: Detection of	Validated	Measures blood pressure, pulse and calculates the mothers risk of shock  A traffic light Early Warning System display alerts users to	Microlife CRADLE VSA device	Healthcare providers	Yes

	underlying pre-Eclampsia and shock) Vital Sign Alert		abnormalities in the vital signs results.			
Nathan et al. [26]	Microlife® CRADLE (Community blood pressure monitoring in Rural Africa & Asia: Detection of underlying pre-Eclampsia and shock) Vital Signs Alert (VSA)	Validated	Device accurately measures blood pressure and pulse. Traffic lights within the device help healthcare workers identify women who need additional treatment for these conditions	Microlife® CRADLE VSA device	Healthcare providers	Yes
Feroz et al. [20]	Hypothetical elemonitoring program	Not specified	Blood pressure measurement	-	Pregnant women and caregiver	-
Dunsmuir et al. [19]	MiniPIERS AND FullPIERS models  Two versions of the POTM application, 1) Original version (application referred to as POTM), 2)Simplified, community-based version for the Community Level Interventions for Pre-eclampsia cluster randomized controlled trial (application referred to as CLIP	Not specified	Mean BP, SpO2, gestational age, proteinuria, symptoms.	Smartphone, mobile health applications (POTM/CLIP POTM), Research electronic data capture server	Community-based health care providers	Yes

	POTM)					
Jonas et al. [21]	Smartphone-based diagnostic test (Congo Red Dot) for preeclampsia	Validated	urine markers	mHealth solution for administering the Congo Red Dot (CRD) test	Modestly trained personnel	Yes
Thakor et al. [32]	New device (Hypertension Detector for Developing Countries), intraarterial, sphygmomanometers, assorted automatic blood pressure devices, and proteinuria measurement	Not specified	Blood pressure measurement	-	Semi-literate volunteers with minimal training	Yes
Nathan et al. [27]	Microlife 3AS1-2 blood pressure device	Validated	Measures blood pressure	Device	Staff with minimal training	Yes
Nathan et al. [28]	CRADLE Vital Signs Alert (VSA)	Validated	Measures BP and pulse to facilitate prompt recognition of abnormalities in vital signs	Device Traffic light early warning system	Healthcare providers	yes
Payne et al. [29]	miniPIERS risk prediction model	Validated	miniPIERS (measures demographics, symptoms and signs).	Mobile health application	Mid-level health workers	yes
Bellad et al. [17]	CLIP intervention package included miniPIERS model, PIERS On the Move (POM) tool, and	Validated	Measure BP, pre-eclampsia symptoms and dipstick proteinuria	mobile-based CLIP POM mobile health application (app),	Community health workers	yes

	Microlife BP 3AS1-2 device			central REDCap server		
Qureshi et al. [30]	CLIP intervention package included miniPIERS model, Microlife BP 3AS1-2 device and PIERS On the Move (POM) mobile health (mHealth) application	Validated	BP measurement and pulse oximetry	POM mHealth application	Lady health workers	Yes
Khowaja et al [22]	CLIP intervention package PIERS On the Move (POM) mobile health (mHealth) application	Validated	Measure BP, pre-eclampsia symptoms and dipstick proteinuria	POM mHealth application	Community-based health care providers	Yes
Khowaja et al [23]	CLIP intervention package PIERS On the Move (POM) mobile health (mHealth) application	Validated	Measure BP, pre-eclampsia symptoms and dipstick proteinuria	POM mHealth application	Community-based health care providers	Yes
Von Dadelszen et al. [33]	CRADLE BP device, pulse oximetry and TraCer platform, POM mHealth application	Validated	CRADLE VSA semi-automated and validated BP device will be used for all clinical measurements of blood pressure (BP) in the study pulse oximetry  POM platform to provide time-of-disease	POM mHealth application	Healthcare providers	Yes

			risk estimates to hypertensive pregnant women using PIERS models			
Abejirinde et al [16]	Bliss4Midwives' (B4M)	Not specified	non-invasive device for measuring haemoglobin via infrared sensors mounted on a finger clip; a self-inflating blood pressure cuff; and an automated reader for urinary protein and glucose through dipsticks.	Data from all diagnostic devices are automatically or manually linked to an android tablet equipped with decision support algorithms	Midwives and community health nurses	Yes
Bellad et al [18]	Community Level Interventions for Pre-Eclampsia (CLIP) Package	Not specified	Measuring blood pressure	mHealth platform	Community-based health activists ASHAs	Not specified
Sharma et al [31]	Community Level Interventions for Pre-Eclampsia (CLIP) Package	Not specified	Blood pressure measurement	PIERS On the Move (POM) mHealth tool, Microlife VSA blood pressure device	Community health workers	Yes