**Supplemental digital content 1: Challenges of implementing mother-infant pair clinics identified by mentors during the PRIME study**

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|  | **Round 1 - September 2013** | **Round 2 - December 2013** | **Round 3 - May 2014** | **Round 4 - November 2014** | **Round 5 - December 2015** | **Round 6 - August 2016** |
| *Service Delivery* |   |   |   |   |   |   |
| **Provision of health services** | Inconsistencies in provision integrated health services on a regular basis | Nutrition assessment not done | Changes in MIP clinics frequency for many sites | Inconsistencies in provision integrated health services on a regular basis due to infrastructure and HR challenges | Some sites still failed to integrate ANC with MIP because of space | Some sites still failed to integrate ANC with MIP because of space, staff attitude and HR shortage |
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| **Option B+** | Time period |   |   |   |   |   |
| *Human Resources* |   |   |   |   |   |   |
| **Shortage of staff** | Lack of HR capacity to provide services due to high volume of patients | Lack of enough staff to provide all services |   |   |   |   |
| **Understanding of MIP concept** | Misunderstanding of MIP concept between staff members; confusion on MIP schedules |   |   |   |   |   |
| **Identifying eligible MIP patients** | Challenges to identify eligible patients |   |   |   |   |   |
| **Poor documentation** | Important data not being recorded by staff or not consistently (i.e. ART Cards, EID register, etc) | Issues with filling EID log book |   | Important data not being recorded by staff or not consistently (i.e. ART Cards, EID register, etc) | Important data not recorded by staff or not consistently (i.e. ART Cards, EID register, etc); some data clerks not trained on how to record data on documents; some staff feel overwhelmed and have not time to record | Important data not being recorded by staff or not consistently (i.e. ART Cards, EID register, etc) and sometimes as a result of workload/pressure |
| **Skills and training** | Issues with collecting sample for DBS | Issues with collecting sample for DBS; lack of skills and need for training expressed by staff. | Some staff still not trained on ART | Some staff not being trained on how to fill out registers |   |   |
| **Turnover** |   | High turnover of staff leads to need to train new staff members |   |   | High turnover of staff led to the need of training new staff members | High turnover of staff with poor handover |
| **Motivation/commitment and attitude of Health Care Workers** |   | Lack of motivation of some staff who were not trained | Lack of commitment of some staff especially counselors  |   |   | Some staff members refused to provide MIP clinic services when there are few clients; Health workers were expecting some incentives. Since they did not get, they lost motivation |
| **Supervision and support from MOH District** |   |   | Lack of supervision from MOH District team | Lack of involvement from MOH District team. Some sites still have no clear MIP clinic schedules |   |   |
| **Team organization** |   | Difficulties in defining MIP clinic schedules |   | Poor team organization for task shifting/sharing | Poor support from nurses and clinicians perceived by lay cadres | Poor support from nurses and clinicians perceived by lay cadres |
| *Commodity* |   |   |   |   |   |   |
| **HIV Tests kits** |   | Stock out of HIV tests | Stock out of HIV tests | Stock out of supplies |   |   |
| **DBS Sample collection** |   | Challenges in getting EID results | Delay in getting EID results | Most facilities face delay in getting EID results (up to 2 months for some sites) |   |   |
| **Nutrition equipment** |   |   |   | Lack of weighing scale |   |   |
| *Patient's attitude* |   |   |   |   |   |   |
| **Defaulting patients** |   | Defaulting babies cannot be found |   | Some patients reluctant to initiate ART and/or come to their regular visits due to low male involvement or refuse to take drugs for religious belief: Stigma on HIV |   |   |
| **Seeking health care elsewhere** |   |   |   | Some patients seek care in other facilities |   |   |
| *Infrastructure* |   |   |   |   |   |   |
| **Lack of space** |   | Limited space to provide adequate services including confidentiality; lack of appropriate storage space for files | Limited space to provide services and privacy | Limited space to provide integrated services | Limited space to provide integrated services | Limited space to provide integrated services |