



Previous conducted research and Criteria for prioritization of research question

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Previous studies

- Total international publications within last 5 years- 63
- Theme 1: Maternal Health (20)
- Theme 2: Family planning and PAC (10)
- Theme 3: Adolescent and Reproductive Health (8)
- Theme 4: Reproductive Health Commodities & Special Group(22)
- Theme 5: Gender-based Violence (3)



Theme 1: Maternal Health

1. Maung TM, Show KL, Mon NO, Tunçalp Ö, Aye NS, Soe YY, Bohren MA. A qualitative study on acceptability of the mistreatment of women during childbirth in Myanmar. *Reprod Health*. 2020 Apr 20;17(1):56.
2. Brizuela V, Bonet M, Trigo Romero CL, et al (2020) Early evaluation of the “STOP SEPSIS!” WHO Global Maternal Sepsis Awareness Campaign implemented for healthcare providers in 46 low, middle and high-income countries. *BMJ Open*.
3. Bonet M, Brizuela V, Abalos E, et al (2020) Frequency and management of maternal infection in health facilities in 52 countries (GLOSS): a 1-week inception cohort study. *Lancet Glob Heal* 8:e661–e6712
4. Sunuwar DR, Singh DR, Chaudhary NK, Pradhan PMS, Rai P, Tiwari K. Prevalence and factors associated with anemia among women of reproductive age in seven South and Southeast Asian countries: Evidence from nationally representative surveys. *PLoS One*. 2020 Aug 13;15(8):e0236449.
5. Milkowska-Shibata MA, Aye TT, Yi SM, Oo KT, Khaing K, Than M, Win T, Myo Toe SY, West HS, Ringstad KM, Galarza L, Meng C, Shibata T. Understanding Barriers and Facilitators of Maternal Health Care Utilization in Central Myanmar. *Int J Environ Res Public Health*. 2020 Feb 25;17(5):1464.





Theme 1: Maternal Health

6. Thida T, Liabsuetrakul T, McNeil E. Disparity in utilization and expectation of community-based maternal health care services among women in Myanmar: a cross-sectional study. *J Public Health (Oxf)*. 2019 Mar 1;41(1):183-191.
7. Sebayang SK, Efendi F, Astutik E. Women's empowerment and the use of antenatal care services: analysis of demographic health surveys in five Southeast Asian countries. *Women Heal* 2019;59:1155–71.
8. Okawa S, Win HH, Leslie HH, Nanishi K, Shibamura A, Aye PP, Jimba M. Quality gap in maternal and newborn healthcare: a cross-sectional study in Myanmar. *BMJ Glob Health*. 2019 Mar 19;4(2):e001078. doi: 10.1136/bmjgh-2018-001078.
9. Bohren MA, Mehrtash H, Fawole B, Maung TM, Balde MD, Maya E, Thwin SS, Aderoba AK, Vogel JP, Irinyenikan TA, Adeyanju AO, Mon NO, Adu-Bonsaffoh K, Landoulsi S, Guure C, Adanu R, Diallo BA, Gülmezoglu AM, Soumah AM, Sall AO, Tunçalp Ö. How women are treated during facility-based childbirth in four countries: a cross-sectional study with labour observations and community-based surveys. *Lancet*. 2019 Nov 9;394(10210):1750-1763.
10. Shwe ATW, Riewpaiboon A, Chaikledkaew U, Youngkong S. Treatment cost and costing model of obstetric complications at a hospital in Myanmar. *PLoS One*. 2019 Mar 20;14(3):e0213141.





Theme 1: Maternal Health

11. Shwe Sin Ei WL, Lwin Tun T, Htun C, Gignoux E, Thu Swe K, Incerti A, Johnson DC. Nagaland health assessment: High mortality rates and difficulty accessing essential health services in Lahe Township, Republic of the Union of Myanmar. PLoS One. 2019 May 14;14(5):e0216925.
12. Than KK, Tin KN, La T, Thant KS, Myint T, Beeson JG, Luchters S, Morgan A. The potential of task shifting selected maternal interventions to auxiliary midwives in Myanmar: a mixed-method study. BMC Public Health. 2018 Jan 3;18(1):99.
13. Bohren MA, Vogel JP, Fawole B, Maya ET, Maung TM, Baldé MD, Oyeniran AA, Ogunlade M, Adu-Bonsaffoh K, Mon NO, Diallo BA, Bangoura A, Adanu R, Landoulsi S, Gülmezoglu AM, Tunçalp Ö. Methodological development of tools to measure how women are treated during facility-based childbirth in four countries: labor observation and community survey. BMC Med Res Methodol. 2018 Nov 15;18(1):132.
14. Myint ANM, Liabsuetrakul T, Htay TT, et al. Inequity in the utilization of antenatal and delivery care in Yangon region, Myanmar: A cross-sectional study. Int J Equity Health 2018;17:63.
15. Thet MM, Aung T, Diamond-Smith N, Sudhinaraset M. The influence of a community-level breast-feeding promotion intervention programme on breast-feeding practices in Myanmar. Public Health Nutr. 2018 Nov;21(16):3091-3100.





Theme 1: Maternal Health

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16. Than KK, Mohamed Y, Oliver V, Myint T, La T, Beeson JG, Luchters S. Prevention of postpartum haemorrhage by community-based auxiliary midwives in hard-to-reach areas of Myanmar: a qualitative inquiry into acceptability and feasibility of task shifting. *BMC Pregnancy Childbirth*. 2017 May 17;17(1):146.
 17. Wai KM, Mar O, Kosaka S, Umemura M, Watanabe C. Prenatal Heavy Metal Exposure and Adverse Birth Outcomes in Myanmar: A Birth-Cohort Study. *Int J Environ Res Public Health*. 2017 Nov 3;14(11):1339.
 18. Vogel JP, Moore JE, Timmings C, Khan S, Khan DN, Defar A, Hadush A, Minwyelet Terefe M, Teshome L, Ba-Thike K, Than KK, Makuwani A, Mbaruku G, Mrisho M, Mugerwa KY, Puchalski Ritchie LM, Rashid S, Straus SE, Gülmezoglu AM. Barriers, Facilitators and Priorities for Implementation of WHO Maternal and Perinatal Health Guidelines in Four Lower-Income Countries: A GREAT Network Research Activity. *PLoS One*. 2016 Nov 2;11(11):e0160020.
 19. Sheehy G, Aung Y, Foster AM. "She Learned it from her Mother and Grandmother": Women's Experiences with Delivery and Post-partum Practices in Peri-urban Yangon, Myanmar. *Matern Child Health J*. 2016 Apr;20(4):854-61.
 20. Wai KM, Shibanuma A, Oo NN, Fillman TJ, Saw YM, Jimba M. Are Husbands Involving in Their Spouses' Utilization of Maternal Care Services?: A Cross- Sectional Study in Yangon, Myanmar. *PLoS One*. 2015 Dec 7;10(12):e0144135.





Theme 2: FP & PAC

1. Aung T, Hom NM, Sudhinaraset M. Increasing family planning in Myanmar: the role of the private sector and social franchise programs. *BMC Womens Health*. 1;17(1):46.
2. Aung T, Thet MM, Sudhinaraset M, *et al*. Impact of a social franchise intervention program on the adoption of long and short acting family planning methods in hard to reach communities in Myanmar. *J Public Heal (United Kingdom)* 2019;**41**:192–200.
3. Jirapongsuwan A, Latt KT, Siri S, *et al*. Family Planning Practice among Rural Reproductive-Age Married Women in Myanmar. *Asia-Pacific J Public Heal* 2016;**28**:303–12.





Theme 2: FP & PAC

4. Hobstetter M, Sietstra C, Walsh M, *et al.* ‘In rape cases we can use this pill’: A multimethods assessment of emergency contraception knowledge, access, and needs on the Thailand - Burma border. *Int J Gynecol Obstet* 2015;**130**:E37–41.
5. Salisbury P, Hall L, Kulkus S, Paw MK, Tun NW, Min AM, Chotivanich K, Srikanok S, Ontuwong P, Sirinonthachai S, Nosten F, Somerset S, McGready R. Family planning knowledge, attitudes and practices in refugee and migrant pregnant and post-partum women on the Thailand-Myanmar border - a mixed methods study. *Reprod Health*. 2016 Aug 19;13(1):94.
6. Srikanok S, Parker DM, Parker AL, Lee T, Min AM, Ontuwong P, Oo Tan S, Sirinonthachai S, McGready R. Empirical lessons regarding contraception in a protracted refugee setting: A descriptive study from Maela camp on the Thai-Myanmar border 1996 - 2015. *PLoS One*. 2017 Feb 23;12(2):e0172007.
7. Gedeon J, Hsue SN, Walsh M, Sietstra C, MarSan H, Foster AM. Assessing the experiences of intra-uterine device users in a long-term conflict setting: a qualitative study on the Thailand-Burma border. *Confl Health*. 2015 Feb 12;9(1):6.





Theme 2: FP & PAC

8. Tousaw E, Moo SNHG, Arnott G, Foster AM. "It is just like having a period with back pain": exploring women's experiences with community-based distribution of misoprostol for early abortion on the Thailand-Burma border. *Contraception*. 2018 Feb;97(2):122-129.
9. Sheehy G, Aung Y, Foster AM. "We can lose our life for the abortion": exploring the dynamics shaping abortion care in peri-urban Yangon, Myanmar. *Contraception*. 2015 Nov;92(5):475-81. doi: 10.1016/j.contraception.2015.08.006. Epub 2015 Aug 8. PMID: 26265443.
10. Feters T, Rubayet S, Sultana S, Nahar S, Tofigh S, Jones L, Samandari G, Powell B. Navigating the crisis landscape: engaging the ministry of health and United Nations agencies to make abortion care available to Rohingya refugees. *Confl Health*. 2020 Jul 23;14:50.





Theme 3: ARH

1. Kågesten AE, Zimmerman L, Robinson C, Lee C, Bawoke T, Osman S, Schlecht J. Transitions into puberty and access to sexual and reproductive health information in two humanitarian settings: a cross-sectional survey of very young adolescents from Somalia and Myanmar. *Confl Health*. 2017 Nov 14;11(Suppl 1):24.
2. Sudhinaraset M, Diamond-Smith N, Thet MM, Aung T. Influence of internal migration on reproductive health in Myanmar: results from a recent cross-sectional survey. *BMC Public Health*. 2016 Mar 9;16:246.
3. Moe T, Boonmongkon P, Lin CF, Guadamuz TE. Yauk gyar mann yin (Be a man!): masculinity and betel quid chewing among men in Mandalay, Myanmar. *Cult Health Sex*. 2016;18(2):129-43.
4. Htet MK, Fahmida U, Thurnham DI, et al. Folate and vitamin B12 status and dietary intake of anaemic adolescent schoolgirls in the delta region of Myanmar. *Br J Nutr* 2016;116:S36–41.





Theme 3: ARH

5. Mon MM, Liabsuetrakul T, Htut KM. Effectiveness of Mindfulness Intervention on Psychological Behaviors among Adolescents with Parental HIV Infection: A Group-Randomized Controlled Trial. *Asia-Pacific J Public Heal* 2016;**28**:765–75.
6. Kyaw NTT, Kumar AMV, Oo MM, *et al.* Long-term outcomes of second-line antiretroviral treatment in an adult and adolescent cohort in Myanmar. *Glob Health Action* 2017;**10**.
7. Nu Noe MT, Saw YM, Soe PP, *et al.* Barriers between mothers and their adolescent daughters with regards to sexual and reproductive health communication in Taunggyi Township, Myanmar: What factors play important roles? *PLoS One* 2018;**13**.
8. Thandar MM, Kiriya J, Shibnuma A, *et al.* Women's knowledge on common non-communicable diseases and nutritional need during pregnancy in three townships of Ayeyarwaddy region, Myanmar: A cross-sectional study. *Trop Med Health* 2019;**47**.





Theme 4: RH Morbidities and Special Group

1. Htut KM, Mon MM, Aye ZM, Ni LL. Young key affected population in Myanmar: are there any challenges in seeking information and care for HIV/sexually transmitted infections and reproductive health? F1000Res. 2018 Sep 21;7:1515.
2. Gibson-Helm M, Boyle J, Cheng IH, East C, Knight M, Teede H. Maternal health and pregnancy outcomes among women of refugee background from Asian countries. Int J Gynaecol Obstet. 2015 May;129(2):146-51.
3. Asnong C, Fellmeth G, Plugge E, Wai NS, Pimanpanarak M, Paw MK, Charunwatthana P, Nosten F, McGready R. Adolescents' perceptions and experiences of pregnancy in refugee and migrant communities on the Thailand-Myanmar border: a qualitative study. Reprod Health. 2018 May 22;15(1):83.
4. Parmar PK, Jin RO, Walsh M, Scott J. Mortality in Rohingya refugee camps in Bangladesh: historical, social, and political context. Sex Reprod Health Matters. 2019 May;27(2):1610275. doi: 10.1080/26410397.2019.1610275. Erratum in Sex Reprod Health Matters. 2019 May;27(2):1633816. PMID: 31533592.





Theme 4: RH Morbidities and Special Group

5. Parker AL, Parker DM, Zan BN, Min AM, Gilder ME, Ringringulu M, Win E, Wiladphaingern J, Charunwatthana P, Nosten F, Lee SJ, McGready R. Trends and birth outcomes in adolescent refugees and migrants on the Thailand-Myanmar border, 1986-2016: an observational study. *Wellcome Open Res.* 2018 May 21;3:62.
6. Lee C, Aules Y, Sami S, Lar PK, Schlect J, Robinson C. Sexual and reproductive health needs and risks of very young adolescent refugees and migrants from Myanmar living in Thailand. *Confl Health.* 2017 Nov 14;11(Suppl 1):30.
7. Aung PP, Ryan C, Bajracharya A, Pasricha N, Thein ZW, Agius PA, Sein TT, Willenberg L, Soe EM, Zaw NT, Tun W, Yam E, Luchters S. Effectiveness of an Integrated Community- and Clinic-Based Intervention on HIV Testing, HIV Knowledge, and Sexual Risk Behavior of Young Men Who Have Sex With Men in Myanmar. *J Adolesc Health.* 2017 Feb;60(2S2):S45-S53.
8. Seo BK. The Work of Inscription: Antenatal Care, Birth Documents, and Shan Migrant Women in Chiang Mai. *Med Anthropol Q.* 2017 Dec;31(4):481-498.





Theme 4: RH Morbidities and Special Group

9. Hashmi AH, Solomon N, Lee SJ, *et al.* Nutrition in transition: Historical cohort analysis summarising trends in under- and over-nutrition among pregnant women in a marginalised population along the Thailand-Myanmar border from 1986 to 2016. *Br J Nutr* 2019;**121**:1413–23.
10. Hashmi AH, Paw MK, Nosten S, *et al.* ‘Because the baby asks for it’: a mixed-methods study on local perceptions toward nutrition during pregnancy among marginalised migrant women along the Myanmar–Thailand border. *Glob Health Action* 2018;**11**:1473104.
11. Fellmeth G, Plugge E, Fazel M, *et al.* Prevalence and determinants of perinatal depression among labour migrant and refugee women on the Thai-Myanmar border: A cohort study. *BMC Psychiatry* 2020;**20**.
12. Fellmeth G, Plugge EH, Nosten S, *et al.* Living with severe perinatal depression: A qualitative study of the experiences of labour migrant and refugee women on the Thai-Myanmar border. *BMC Psychiatry* 2018;**18**.
13. Fellmeth G, Plugge E, Paw KM, *et al.* Pregnant migrant and refugee women’s perceptions of mental illness on the Thai-Myanmar border: a qualitative study. *BMC Pregnancy Childbirth* 2015;**15**.





Theme 4: RH Morbidities and Special Group

14. Sudhinaraset M, Diamond-Smith N, Thet MM, *et al.* Influence of internal migration on reproductive health in Myanmar: Results from a recent cross-sectional survey. *BMC Public Health* 2016;**16**.
15. Asnong C, Fellmeth G, Plugge E, *et al.* Adolescents' perceptions and experiences of pregnancy in refugee and migrant communities on the Thailand-Myanmar border: A qualitative study. *Reprod Health* 2018;**15**:83.
16. Tay AK, Riley A, Islam R, *et al.* The culture, mental health and psychosocial wellbeing of Rohingya refugees: A systematic review. *Epidemiol. Psychiatr. Sci.* 2019;**28**:489–94.
17. Gilder ME, Moo P, Hashmi A, *et al.* "I can't read and don't understand": Health literacy and health messaging about folic acid for neural tube defect prevention in a migrant population on the Myanmar-Thailand border. *PLoS One* 2019;**14**.
18. Schmitt ML, Clatworthy D, Ratnayake R, *et al.* Understanding the menstrual hygiene management challenges facing displaced girls and women: Findings from qualitative assessments in Myanmar and Lebanon. *Confl Health* 2017;**11**.





Theme 4: RH Morbidities and Special Group

19. Hone S, Li L, Lee S-J, *et al.* Progress and Challenges of Implementing Decentralized HIV Testing For Prevention of Mother-to-Child Transmission of HIV – Myanmar. *Int J MCH AIDS* 2019;**8**:44–53. doi:10.21106/ijma.276
20. Kyaw NTT, Harries AD, Kumar AMV, *et al.* High rate of virological failure and low rate of switching to second-line treatment among adolescents and adults living with HIV on firstline ART in Myanmar, 2005-2015. *PLoS One*. 2017;**12**. doi:10.1371/journal.pone.0171780
21. Kyaw K WY, Satyanarayana S, Phyo KH, *et al.* Uptake of antiretroviral therapy in HIV-positive women ever enrolled into ‘prevention of mother to child transmission’ programme, Mandalay, Myanmar - A cohort study. *BMC Pregnancy Childbirth* 2018;**18**. doi:10.1186/s12884-018-2099-0
22. Htut KM, Mon MM, Aye ZM, *et al.* Young key affected population in Myanmar: Are there any challenges in seeking information and care for HIV/sexually transmitted infections and reproductive health? [version 2; referees: 2 approved]. *F1000Research* 2018;**7**. doi:10.12688/f1000research.16029.2





Theme 5: GBV

1. Tanabe M, Greer A, Leigh J, Modi P, Davis WW, Mhote PP, Htoo EM, Otterness CM Jr, Parmar P. An exploration of gender-based violence in eastern Myanmar in the context of political transition: findings from a qualitative sexual and reproductive health assessment. *Sex Reprod Health Matters*. 2019 May;27(2):1665161.
2. Haar RJ, Wang K, Venters H, *et al*. Documentation of human rights abuses among Rohingya refugees from Myanmar. *Confl Health* 2019;**13**. doi:10.1186/s13031-019-0226-9
3. Kiss L, Yun K, Pocock N, *et al*. Exploitation, violence, and suicide risk among child and adolescent survivors of human trafficking in the greater mekong subregion. *JAMA Pediatr* 2015;**169**.





7 Criteria for prioritization of research question

1. Relevance (widespread, who is affected, severity)
2. Avoidance of duplication
3. Feasibility (available resources)
4. Political acceptability
5. Applicability
6. Urgency
7. Ethical applicability



1. Relevance

- How large or widespread is the problem?
- Who is affected?
- How severe is the problem?

- Score 1: Low relevance
- Score 2: Somewhat relevant
- Score 3: Moderate relevance
- Score 4: Substantial relevance
- Score 5: Highly relevant

- According to the priority problems for MRH program
- Global & local trend



2. Avoidance of duplication

- Find out whether the suggested topic has been investigated before either within the proposed study area or in another area with similar conditions
- To consider based on previous studies done under each area
 - Score 1: High duplication
 - Score 2: Substantial duplication
 - Score 3: Moderate duplication
 - Score 4: Little duplication
 - Score 5: No duplication



3. Feasibility

- Resources required to conduct the study
- Manpower, time, equipment & money locally available
- Possibility of obtaining technical and financial assistance from external sources (MOHS-IR grant, WHO/UN, INGO)
 - Score 1: Not feasible at all
 - Score 2: Somewhat feasible
 - Score 3: Moderate feasibility
 - Score 4: Substantial feasibility
 - Score 5: Very high feasibility



4. Political acceptability

- Do research on a topic which has the interest and support of the local/national authorities
- Score 1: Very low chance of political acceptability
- Score 2: Some chance of political acceptability
- Score 3: Moderate chance of political acceptability
- Score 4: Substantial chance
- Score 5: Very high chance



5. Applicability of results/recommendation***

- Is it likely that the recommendations from the study will be applied?

- Score 1: Not applicable at all
- Score 4: Somewhat applicable
- Score 5: Moderate applicability
- Score 6: Substantial applicability
- Score 7: Very high applicability

Weight: +2 in each score



6. Urgency

- How urgently are the results needed for making a decision or developing interventions at various levels (from community to policy)?
 - Consider which research should be done first and which can be done later
-
- Score 1: No urgency
 - Score 4: Somewhat urgency
 - Score 5: Moderate urgency
 - Score 6: Substantial urgency
 - Score 7: Very high urgency
- Weight: +2 in each score



7. Ethical applicability

- Possibility that we may inflict harm on others while carrying out research
 - Benefits versus risks
 - Any physical, social & psychological risks
-
- Score 1: Not acceptable at all
 - Score 2: Somewhat acceptable
 - Score 3: Moderate acceptability
 - Score 4: Substantial acceptability
 - Score 5: Very high acceptability



Group work guide

In each group,

- List all the research questions after refinement
- Let all participants prioritize the research questions by using a rating scale (“1” to “5”) applied to the seven criteria
(Remark: Please add +2 points in applicability and urgency.)
- Select the Research Question which has the highest score

Proposed topic	1. Relevance	2. Avoidance of duplication	3. Urgency	4. Political acceptability	5. Feasibility	6. Applicability	7. Ethical acceptability	Total no. of points



Questions, comments and suggestion

