**APPENDIX 1: Background and details of the rapid scoping review**

The below sections outline in brief the objectives, scope and approach adopted by the rapid scoping review.

**Objectives**

The aim of the rapid scoping review was to collate and assess available investment cases and economic analyses, including those developed or under development by key stakeholders (e.g. UN, academics and non-governmental organisations), with a view to understand the scope and content of the existing evidence base and inform the development of future work.

**Scope**

The mapping looked at published and grey literature from 2010 onwards, assessing the following characteristics:

|  |  |
| --- | --- |
| **Settings** | Low- and middle-income countries, as classified by the World Bank |
| **Level of analysis** | Investment case at global/regional/country level |
| **Populations** | Women, newborns (including stillbirths), children and adolescents (10-19 years of age) |
| **Interventions** | SRMNCAH services/interventions;  Health system strengthening interventions/policies/strategies with impact on WCAH and well-being  multi-sectoral interventions (e.g. nutrition, education, social protection) proven to impact SRMNCAH and well-being; and  gender-responsive preparedness and response measures |
| **Measures** | Costing, price tags, cost of inaction, cost and benefits analyses, socioeconomic return on investments, etc. |
| **Outcomes reported** | e.g. years of lives saved/lost, DALYs, return on investment, socio-economic benefits, etc. |

**Search strategy**

Reviewers searched the Medline database.

MEDLINE(R) ALL 1946 to December 2, 2021, was searched using the Ovid interface. The search was limited since 2010 until 2022. No language limit or study design limit was applied.

Search strategies are presented in Appendix XX.

The Cochrane EPOC filter 2020 for low and middle income countries was adapted for use in this search. Other systematic reviews were consulted for SRMNCAH terms. Filters for retrieving sex and gender specific articles in MEDLINE and health services research were modified for use in this search. Searches were designed and conducted by a librarian experienced in systematic reviews, using a method designed to optimize term selection. The search terms can be found in Appendix 6

Abstracts from the database search were screened by a single reviewer and assessed for eligibility based on the criteria outlined below. Abstracts selected for inclusion at this stage were then further screened and data abstracted. Furthermore, targeted outreach to PMNCH partners (World Bank, WHO, GFF, UNICEF, UNFPA, UNWomen, Guttmacher, Gavi) was also undertaken to identify relevant reports, studies and analyses that should be included in the mapping.

**Eligibility**

Identified studies were screened based on the below inclusion and exclusion criteria

|  |  |
| --- | --- |
| **Inclusion Criteria** | **Exclusion Criteria** |
| **Population of interest**   * Women, newborns (including stillbirths), children and adolescents (10-19 years of age)   **Settings**   * Low- and middle-income countries     **Interventions/ measures/policies/strategies**   * SRMNCAH services/interventions * Health system strengthening interventions/policies/strategies with impact on WCAH and well-being * Multi-sectoral interventions (e.g., nutrition, education, social protection) proven to impact SRMNCAH and well-being;  and * Gender-responsive preparedness and response measures     **Type of analysis**   * Cost of inaction * Cost benefit analysis * Cost effectiveness * Return on investment * Investment case     **Outcomes reported**   * Years of lives saved/lost, * DALYs * QALYS * return on investment * socio-economic benefits, etc. | **Population of interest**   * No explicit mention of women, children or adolescents in the abstract or title   **Settings**   * Study only focusing on high- income countries   **Interventions/ measures/policies/strategies**   Study focusing on health systems strategies/interventions not reporting on women, children and adolescents’ health and/or wellbeing outcomes   * Study focusing on general health interventions without an explicit focus on women, children and/or adolescents’ * General preparedness and response measures, without a focus on WCAH and/or gender equity   **Type of analysis and outcomes reported**     * Study looking at the funding and ODA flows, health spending, health expenditure without an analysis of the resulting WCA health outcomes/ cost-benefits/return on investment/or cost-effectiveness      * Impact evaluations only * Study that is exclusively a costing study (cost identification, price tags, comparative costing) without also looking at either resulting health outcomes/ cost-benefits/return on investment/or cost-effectiveness.      * Study looking at the impact and effectiveness of financing schemes for WCA. These include incentive programs such as conditional cash transfers and voucher schemes, official development assistance (ODA) schemes, pro-equity policies, financial protection schemes for vulnerable WCA, etc. |

**Data Analysis and interpretation**

Using abstracts only, the reviewers identified the region of intervention, broad population, intervention sector, intervention category, notes for multi-sectoral or preparedness and response, intervention detail, and type of analysis for abstracts that fit our inclusion criteria. Because many of the studies included multiple populations, interventions, etc., we added columns for each individual population, intervention, type of analysis, etc., and identified studies that reported these data by recording a “1” in these individual columns:

* Level: national, subnational, regional, LMIC, LIC
* Populations: all women, women of reproductive age, pregnant and lactating women, pre-term and LBW, newborn, stillbirth, children under 24 months, children between 24 – 59 months, older child (5-9 years), children (unspecified), adolescents (10-19 years), other
* Intervention sector: SRMNCAH, multi-sectoral, preparedness and response
* Intervention type: SRHR, antenatal, intrapartum, postnatal, breastfeeding, GBV, child development, immunization, infectious disease, injuries and trauma, mental health and psychosocial support, nutrition, newborn care
* Multi-sectoral or Preparedness and Response: Columns AL to AS
* Type of Analysis: cost of inaction, cost-benefit, cost effectiveness, social return on investment, other

Findings from the abstract data abstraction were presented in a number of data exhibits such as flow chart of literature, number of studies by domain of interest, Knowledge Map of Evidence by Population and Intervention etc.

**APPENDIX 2: Search terms for the rapid scoping review**

Database: Ovid MEDLINE(R) ALL <1946 to February 07, 2022>

Search Strategy:

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1 \*Maternal Mortality/ (5925)

2 Maternal Health Services/ (15307)

3 Women's Health/ec (756)

4 \*Child Health/ (2759)

5 \*Child Welfare/ (15117)

6 Child Health Services/ or Child Protective Services/ (21887)

7 \*Infant Mortality/ or \*Infant Health/ (16673)

8 Prenatal Care/ or Postnatal Care/ or Stillbirth/ (40409)

9 \*Adolescent Health/ (1126)

10 Adolescent Health Services/ (5817)

11 \*Child mortality/ or \*Infant mortality/ (17220)

12 \*Labor, Obstetric/ or \*Delivery, Obstetric/ (38182)

13 pregnancy outcome/ (54813)

14 \*Parturition/ (7043)

15 (exp \*adolescent/ or exp \*child/ or exp \*infant/ or (infant disease\* or childhood disease\*).ti,kf. or (adolescen\* or babies or baby or boy? or boyfriend or boyhood or girlfriend or girlhood or child\* or girl? or infan\* or stillb\* or fetus or fetal or foetus or juvenil\* or kid? or minors or minors\* or neonat\* or neo-nat\* or newborn\* or new-born\* or paediatric\* or peadiatric\* or pediatric\* or perinat\* or preschool\* or puber\* or pubescen\* or school\* or teen\* or toddler? or underage? or under-age? or youth\*).ti,kf. or (pediatric\* or paediatric\* or infan\* or child\* or adolescen\* or young).jn,jw. or (pediatric\* or paediatric\* or infan\* or child\* or adolescen\* or young).in.) adj3 (service\* or program\* or team or unit or clinic or resource\*).tw. (86282)

16 ((women\* or woman\* or female or girl or mother\* or widow\*).tw. or journal of the american medical women's association.jn. or women & health.jn. or womens health issues.jn. or health care for women international.jn.) adj3 (service\* or program\* or team or unit or clinic or resource\*).tw. (27541)

17 or/1-16 (296403)

18 Investments/ (8917)

19 \*Cost of Illness/ (13938)

20 (economic adj2 impact).tw. (11795)

21 ((invest\* or business) adj3 case\*).tw. (19357)

22 "Costs and Cost Analysis"/ (50380)

23 \*Cost allocation/ (566)

24 (fiscal or funding or financial or finance).tw. (172174)

25 cost benefit analysis/ (88335)

26 cost effectiv\*.ti. (31092)

27 \*Health Resources/ or \*"Health Services Needs and Demand"/ (30032)

28 \*Economic Development/ (2096)

29 "return on investment".tw. (2100)

30 (((social or economic) adj2 return\*) or "SROI").tw. (1004)

31 (afghanistan or algeria or angola or bangladesh or belize or british honduras or benin or dahomey or bhutan or bolivia or burkina faso or burkina fasso or burundi or urundi or cabo verde or cape verde or cambodia or kampuchea or khmer republic or cameroon or cameron or cameroun or central african republic or ubangi shari or chad or comoros or comoro islands or iles comores or democratic republic of the congo or democratic republic congo or congo or "cote d’ivoire" or "cote d’ ivoire" or cote divoire or cote d ivoire or ivory coast or djibouti or french somaliland or egypt or united arab republic or el salvador or eritrea or eswatini or swaziland or ethiopia or gambia or ghana or gold coast or guinea or guinea bissau or haiti or honduras or india or indonesia or iran or kenya or "democratic people’s republic of korea" or north korea or kyrgyzstan or kirghizia or kirgizstan or kyrgyz republic or kirghiz or laos or lao pdr or "lao people's democratic republic" or madagascar or malagasy republic or malawi or nyasaland or mali or micronesia or federated states of micronesia or kiribati or mauritania or mongolia or morocco or mozambique or portuguese east africa or myanmar or burma or nepal or nicaragua or niger or nigeria or pakistan or papua new guinea or new guinea or philippines or philipines or phillipines or phillippines or rwanda or ruanda or samoa or samoan islands or navigator island or navigator islands or "sao tome and principe" or senegal or sierra leone or solomon island or solomon islands or somalia or south sudan or sri lanka or ceylon or sudan or syria or syrian arab republic or tajikistan or tadjikistan or tadzhikistan or tadzhik or tanzania or timor leste or east timor or togo or tunisia or uganda or ukraine or uzbekistan or uzbek or vanuatu or new hebrides or venezuela or vietnam or viet nam or west bank or gaza or palestine or yemen or zambia or zimbabwe or northern rhodesia or middle income countr\* or middle income nation? or middle income population? or low income countr\* or low income nation? or low income population? or lower income countr\* or lower income nation? or lower income population? or underserved countr\* or underserved nation? or underserved population? or underserved world or under served countr\* or under served nation? or under served population? or under served world or deprived countr\* or deprived nation? or deprived population? or deprived world or poor countr\* or poor nation? or poor population? or poor world or poorer countr\* or poorer nation? or poorer population? or poorer world or developing econom\* or less developed econom\* or lesser developed econom\* or under developed econom\* or underdeveloped econom\* or middle income econom\* or low income econom\* or lower income econom\* or low gdp or low gnp or low gross domestic or low gross national or lower gdp or lower gnp or lower gross domestic or lower gross national or lmic or lmics or third world or lami countr\* or transitional countr\* or emerging economies or emerging nation?).ti,ab,sh,kf. or Developing Countries/ (875225)

32 (Albania or Argentina or Armenia or Samoa or Azerbaijan or Bulgaria or Bosnia or Herzegovina or Belarus or Brazil or Botswana or China or Colombia or Costa Rica or Cuba or Dominica or Dominican or Republic or Ecuador or Fiji or Gabon or Georgia or Equatorial or Guinea or Grenada or Guatemala or Guyana or Iraq or Jamaica or Jordan or Kazakhstan or Lebanon or Libya or Lucia or Moldova or Maldives or Mexico or Marshall Islands or Macedonia or Montenegro or Mauritius or Malaysia or Namibia or Panama or Peru or Paraguay or Romania or Russian Federation or Serbia or Suriname or Thailand or Turkmenistan or Tonga or Turkey or Tuvalu or St Vincent or Grenadines or Kosovo or South Africa).ti,ab,sh,kf. (1023959)

33 (botswana or bechuanaland or georgia or "georgia (republic)" or georgian or libya or libyan arab jamahiriya or "st. lucia" or saint lucia or russia or russian federation or ussr or soviet union or "union of soviet socialist republics thailand" or siam or turkmenistan or turkmen or "saint vincent and the grenadines" or saint vincent or "st. vincent" or grenadines).ti,ab,sh,kf. (121303)

34 31 or 32 (1707351)

35 \*Global health/ (21792)

36 "Delivery of Health Care, Integrated"/ (13818)

37 \*Delivery of Health Care/ (64432)

38 \*Immunization Programs/ (7525)

39 Health Services Accessibility/ (82387)

40 Disaster Planning/ (15132)

41 (preparedness and response).tw. (5348)

42 Diet, Healthy/ (6135)

43 ((immunization\* or immunisation\* or immunized or immunised or immunizing or immunising or vaccine\* or vaccination\* or vaccinated or vaccinating or inoculation or inoculating or inoculated) adj3 (service\* or program\* or team or unit or clinic or resource\*)).tw. (22671)

44 \*Postpartum Period/ or \*Stillbirth/ (17638)

45 Premature Birth/pc (2536)

46 ((postnatal\*OR new baby or well baby or prenatal\* or preg\* care or antenatal\* or postpartum\* or puerperium or infan\*) adj3 (initiative or service\* or program\* or team or unit or clinic or resource\*)).tw. (14901)

47 Early Intervention, Educational/ (3341)

48 (early adj2 child\* adj2 (education or school or service\* or program\* or team or unit or clinic or resource\*)).tw. (1482)

49 (nurtur\* adj2 (care or treatment or therapy)).tw. (238)

50 (responsive adj2 caregiving).tw. (83)

51 \*Self Care/ (19244)

52 \*Family Planning Services/ (12147)

53 \*Contraception/ (11800)

54 (condom\* or (OC adj pill) or medroxyprogest\* or Mesigyna or Cyclofem or intrauterine system or IUS or intrauterine device\* or IUD\* or vasectomy or sterilisation or sterilization or (tubal adj ligation) or (vaginal adj ring) or cycletel or (lactational adj2 amenorr\*)).tw. (68396)

55 \*Pregnancy, unplanned/ or \*Pregnancy, unwanted/ or \*Abortion, Induced/ or \*Abortion, Legal/ (27835)

56 (pregnan\* adj3 (prevent\* or interrupt\* or unplanned or unwanted)).tw. (15828)

57 \*Sexually Transmitted Diseases/ (18776)

58 (sexually transmi\* or STI or STIs or STD or STDs or venereal).tw. (52143)

59 Domestic Violence/ or Spouse Abuse/ or Intimate Partner Violence/ or Rape/ (23791)

60 (((sexual or domestic or spous\* or intimate partner) adj3 (violen\* or abus\* or assault)) or rape).tw. (44784)

61 (abort\* or miscarr\* or (pregnan\* adj2 terminat\*)).tw. (103115)

62 \*Puberty/ or \*Menstruation/ (14916)

63 (pubert\* or pubescen\* or menstruat\* or menstrual\*).ti. (28062)

64 ((antenatal or prenatal or antepartum) adj3 (care or service\* or counsel\* or test\*)).tw. (33179)

65 ((maternal or mother\*) adj3 (health or service\* or care)).tw. (35346)

66 Reproductive Health/ (4348)

67 (reproductive adj2 (health or care or service\*)).tw. (17527)

68 \*Midwifery/ (15206)

69 (midwi\* or skilled birth or skilled attendan\*).tw. (27948)

70 \*Breast Feeding/ (27315)

71 (breast feed\* or breast fed or breastfeed\* or breastfed).ti. (19678)

72 (early adj1 diagnos\* adj2 (infant\* or neonat\* or newborn\*)).tw. (519)

73 \*"Infectious Disease Transmission, Vertical"/ (10470)

74 ((mother to child transmi\* adj3 (prevent\* or eliminat\*)) or emtct or pmtct or (vertical adj transmi\*)).tw. (10515)

75 child nutrition disorders/ or infant nutrition disorders/ (8092)

76 \*Sex Education/ (5692)

77 (sex\* adj (educat\* or "health promot\*")).tw. (9179)

78 \*Smoking Cessation/ and (\*Pregnancy/ or \*Pregnancy in Adolescence/) (115)

79 (((smoking or smoker\* or cigarette or tobacco) adj3 (ceas\* or cessation or stop\* or discontinu\*)) and (pregnan\* or maternal or mother\*)).tw. (2455)

80 \*Mental health services/ or \*Community mental health services/ (41969)

81 \*Depression, Postpartum/ (5443)

82 \*HIV Infections/ec, pc (24648)

83 Communicable Disease Control/ (27552)

84 Noncommunicable Diseases/ (2204)

85 Depression/ec, pc (5030)

86 Hypertension/ec, pc (12142)

87 Diabetes Mellitus/ec, pc (6692)

88 Child Abuse/ec, pc (4328)

89 Obesity/ec, pc (18485)

90 or/35-89 (855191)

91 or/18-30 (380705)

92 17 and 34 and 91 (3721)

93 34 and 90 and 91 (13373)

94 92 or 93 (14775)

95 limit 94 to yr="2010 - 2022" (9838)