

Appendix 4: List of Excluded Studies

Study ID	Reason
1. Welte 2021 ¹	Wrong intervention – Sexual health promotion only and reported knowledge improvement outcomes
2. De Anda 2008 ²	Wrong study design – pre/post measure with no control arm
3. Halpern 2008 ³	Wrong intervention – sexual health promotion only and reported knowledge improvement outcomes
4. Hardwick 2002 ⁴	Wrong study design – pre/post design with no control arm
5. Njuguna 2016 ⁵	Wrong intervention – sexual health promotion to FP use
6. Pedrana 2020 ⁶	Wrong study design – pre/post measure with no control arm
7. Rios 2007 ⁷	Wrong intervention – leads to FP Wrong participants– age of participants not given
8. Schuler 1994 ⁸	Wrong outcome - Data on young women not given separately
9. Ashraf 2014 ⁹	Wrong outcome - Data on young women not given separately
10. Dhak 2020 ¹⁰	Wrong study design - survey
11. Barham 2021 ¹¹	Wrong outcome - Data on young women not given separately
12. Ruthbah 2020 ¹²	Wrong study design – survey
13. Yadav 2014 ¹³	Wrong study design – qualitative study
14. Fitzgerald-Husek 2011 ¹⁴	Wrong study design – qualitative study
15. Peters 2011 ¹⁵	Wrong outcome - Data on young women not given separately
16. Newman 2016 ¹⁶	Wrong study design – cross sectional study
17. Sinha 2005 ¹⁷	Wrong outcome - Data on young women not given separately
18. Schultz 2009 ¹⁸	Wrong study design - pre/post measure with no control arm
19. Alano 2018 ¹⁹	Wrong study design – qualitative study
20. Bailey 2006 ²⁰	Wrong study design – survey
21. Pallikadavath 2015 ²¹	Wrong study design – survey
22. Miller 2009 ²²	Wrong study design – survey
23. Joshi 2013 ²³	Wrong outcome - Data on young women not given separately
24. Bailey 2013 ²⁴	Wrong study design – survey
25. John 2022 ²⁵	Wrong outcome – FP use as an outcome not given
26. Goldin 2022 ²⁶	Wrong study design – survey
27. John 2020 ²⁷	Wrong study design – survey
28. Babiarz 2017 ²⁸	Wrong study design – survey
29. Ahmed 2020 ²⁹	Wrong study design – before after study with no control arm
30. Yamamoto 2017 ³⁰	Wrong study design – survey
31. Singh 2019 ³¹	Wrong study design – survey
32. Some 2021 ³²	Wrong study design – survey
33. Sougou 2020 ³³	Wrong study design – survey
34. Sturgill 2021 ³⁴	Wrong study design – survey
35. Uddin 2017 ³⁵	Wrong study design – survey
36. Upadhyay 2012 ³⁶	Wrong study design – survey
37. Wado 2018 ³⁷	Wrong study design – survey
38. Wayal 2010 ³⁸	Wrong study design – cross sectional study
39. Yarger 2022 ³⁹	Wrong study design – pre/post measure with no control arm
40. Singh 2021 ⁴⁰	Wrong study design – survey
41. Shankar 2018 ⁴¹	Wrong study design – case study
42. Samosir 2020 ⁴²	Wrong study design – survey
43. Samari 2018 ⁴³	Wrong study design – survey
44. Redman 2020 ⁴⁴	Conference abstract
45. Saleem 2005 ⁴⁵	Wrong study design – survey
46. Rizvi 2015 ⁴⁶	Wrong study design – cross sectional study
47. Saleem 2008 ⁴⁷	Wrong study design – survey
48. Reed 2016 ⁴⁸	Wrong study design – survey
49. Prata 2017 ⁴⁹	Introduction to special issue paper

50. Potter 2019 ⁵⁰	Wrong study design – review paper
51. Pindar 2020 ⁵¹	Wrong study design – cross sectional study
52. Okigbo 2018 ⁵²	Wrong study design – survey
53. Nkoka 2021 ⁵³	Wrong study design – survey
54. Nadeem 2021 ⁵⁴	Wrong study design – survey
55. Muluneh 2021 ⁵⁵	Wrong study design – cross sectional study
56. Mejia-guevara 2021 ⁵⁶	Wrong study design – survey
57. Meherali 2021 ⁵⁷	Wrong study design – survey
58. Manlove 2020 ⁵⁸	Conference abstract
59. Mandal 2017 ⁵⁹	Wrong study design – Systematic review
60. Loll 2019 ⁶⁰	Wrong study design – cross sectional study
61. macQuarrie 2022 ⁶¹	Wrong study design – survey
62. Loll 2016 ⁶²	Conference abstract
63. Kerrigan 2018 ⁶³	Conference abstract
64. Liao 2011 ⁶⁴	Wrong study design – survey
65. Leon 2013 ⁶⁵	Wrong study design – survey
66. Lancaster 2013 ⁶⁶	Wrong study design – pre and post with no control
67. Kaini 2017 ⁶⁷	Wrong study design – descriptive study
68. Lai 2019 ⁶⁸	Wrong study design – survey
69. Keller 1997 ⁶⁹	Review paper
70. Kambic 1988 ⁷⁰	Wrong study design – cross sectional study
71. Kambic 1991 ⁷¹	Wrong study design – program with no control arm
72. Heckert 2019 ⁷²	Wrong outcome – women empowerment to nutrition outcome
73. Hameed 2014 ⁷³	Wrong study design – survey
74. Haley 2012 ⁷⁴	Wrong study design – cross sectional
75. Estrada 2008 ⁷⁵	Wrong study design – case control
76. Fogel 2015 ⁷⁶	Wrong outcome - Data on young women not given separately
77. Ford 2010 ⁷⁷	Wrong study design – cross sectional study
78. Gammage 2020 ⁷⁸	Review paper
79. Decat 2014 ⁷⁹	Conf abstract
80. Diedrich 2009 ⁸⁰	Conf abstract
81. Eisen 1990 ⁸¹	Wrong study design – pre and post with no control arm
82. Dubois-Abre 2017 ⁸²	Wrong study design – survey
83. Mi Do 2012 ⁸³	Wrong study design – survey
84. Dingeta 2019 ⁸⁴	Wrong study design – cross sectional study
85. Dereuddre 2016 ⁸⁵	Wrong study design – survey
86. Campbell 2016 ⁸⁶	Conf abstract
87. Blanc 2001 ⁸⁷	Wrong study design – survey
88. Bose 2019 ⁸⁸	Wrong study design – cross sectional study
89. Borovac-Pinheiro 2019 ⁸⁹	Wrong study design – retrospective cross-sectional study
90. Chen 2019 ⁹⁰	Descriptive paper from a trial
91. Chiappori 2008 ⁹¹	Narrative paper
92. Collins 2018 ⁹²	Conf abstract
93. Corroon 2014 ⁹³	Wrong study design – survey
94. Darteh 2014 ⁹⁴	Wrong study design – survey
95. Blackstone 2016 ⁹⁵	Wrong study design – survey
96. Biddlecom 2009 ⁹⁶	Wrong study design – survey
97. Bell 2017 ⁹⁷	Wrong population – study on men only
98. Baumann 2017 ⁹⁸	Wrong study design – survey
99. Bashir 2021 ⁹⁹	Wrong study design – survey
100. Barr 2013 ¹⁰⁰	Wrong study design – cross sectional study
101. Artz 2000 ¹⁰¹	Wrong study design – pre-post with no control
102. Asaolu 2017 ¹⁰²	Wrong study design – survey
103. Atiglo 2019 ¹⁰³	Wrong study design – survey
104. Austin 2015 ¹⁰⁴	Wrong study design – survey
105. Abada 2012 ¹⁰⁵	Wrong study design – survey

106. Ajefu 2019 ¹⁰⁶	Wrong study design – survey
107. Al Riyami 2004 ¹⁰⁷	Wrong study design – survey
108. Alishah 2019 ¹⁰⁸	Wrong study design – cross sectional study
109. EngenderHealth 2021 ¹⁰⁹	Wrong study design – pre/post design with no control arm
110. Ramu 2013 ¹¹⁰	Conference abstract
111. Flannigan 2021 ¹¹¹	Wrong outcome- No FP use outcome
112. Tingey 2015 ¹¹²	Wrong intervention - intervention unclear and paper only provided baseline characteristics
113. Yasuyo 2016 ¹¹³	Wrong outcome – No FP use outcome
114. Van devanter 2005 ¹¹⁴	Wrong outcome - No FP use outcome
115. Shuey 1999 ¹¹⁵	Wrong outcome - Only knowledge related outcome
116. Schuler 2015 ¹¹⁶	Wrong population – Mean age 30 years and no outcomes reported on younger population
117. Rokicki 2017 ¹¹⁷	Wrong population - sexual health promotion and FP use
118. Parwej 2005 ¹¹⁸	Wrong outcome - sexual health promotion - only knowledge re FP outcome
119. Okonofua 2003 ¹¹⁹	Wrong outcome - No FP use outcome
120. Njue 2015 ¹²⁰	Wrong outcome - No FP use outcome
121. Naved 2018 ¹²¹	Wrong outcome - No FP use outcome
122. Mon 2017 ¹²²	Wrong outcome - mindfulness and sexual health and only knowledge outcome
123. Maro 2009 ¹²³	Wrong outcome – No FP use outcome
124. Lightfoot 2007 ¹²⁴	Wrong outcome - sexual health promotion only and FP use
125. Lewis 1999 ¹²⁵	Wrong outcome - sexual health promotion only and FP use
126. Leon 2014 ¹²⁶	Wrong population - mean age in arms were 30 years
127. Lederman 2004 ¹²⁷	Wrong population - sexual health promotion and FP use
128. Kranzer 2018 ¹²⁸	Wrong outcome - HIV voucher and counseling and NO FP outcome
129. Klepp 1997 ¹²⁹	Wrong outcome/population - only knowledge outcome
130. Kirby 2010 ¹³⁰	Wrong outcome - sexual health promotion only and FP use
131. Kaufman 2012 ¹³¹	Wrong outcome - Sexual E&A and only knowledge related outcome
132. Katz 2011 ¹³²	Wrong outcome - No FP use outcome
133. Dupas 2011 ¹³³	Wrong outcome - reported childbearing and age at marriage
134. Darabi 2017 ¹³⁴	Wrong outcome - Sexual E&A and only knowledge related outcome
135. Chokprajakchad 2020 ¹³⁵	Wrong outcome - E&A including sexual health promotion and no FP use outcome
136. Castillo-Arcos 2016 ¹³⁶	Wrong outcome - No FP use outcome
137. Brown 2011 ¹³⁷	Wrong outcome - E&A including sexual health promotion and no FP use outcome
138. Brieger 2001 ¹³⁸	Wrong intervention - Only sexual health promotion
139. Black 2006 ¹³⁹	Wrong outcome - E&A but no outcome on FP use
140. Aninanya 2015 ¹⁴⁰	Wrong outcome - E&A but no outcome on FP use
141. Mutowo 2014 ¹⁴¹	Wrong intervention - the women empowerment intervention is unclear
142. Esere 2008 ¹⁴²	Wrong outcome - sexual health promotion and FP use outcome
143. Borzekowski 2006 ¹⁴³	Wrong outcome - only use of internet use is explored
144. Aderibigbe 2008 ¹⁴⁴	Wrong outcome - sexual health promotion and FP use outcome
145. Acharya 2017 ¹⁴⁵	Wrong outcome - sexual E&A to NO FP outcome
146. Sovereign 2013 ¹⁴⁶	Wrong outcome – no FP use
147. Knobloch-Westerwick 2016 ¹⁴⁷	Wrong intervention - Media exposure
148. Philips-Howard 2016 ¹⁴⁸⁻¹⁵⁰	Wrong outcome/intervention - use of sanitary pads and no FP outcome only
149. Agha 2002 ¹⁵¹	Wrong intervention - social marketing and FP use
150. Stark 2018 ¹⁵²⁻¹⁵⁴	Wrong outcome - E&A to NO FP outcomes
151. Rossem 1999 ¹⁵⁵	Wrong intervention - social marketing and FP use
152. Meekers 2000 ¹⁵⁶	Wrong intervention - social marketing of condom use
153. Ybarra 2015 ^{157 158}	Wrong outcome - sexual E&A to NO FP outcome
154. Widman 2018 ¹⁵⁹⁻¹⁶²	Wrong outcome - sexual E&A to NO FP outcome
155. Swendeman 2009 ^{163 164}	Wrong outcome - sexual E&A to NO FP outcome
156. Hallfors 2011 ^{165 166}	Wrong intervention – Conditional Cash Transfer
157. Cho 2011 ¹⁶⁷⁻¹⁶⁹	Wrong intervention - Conditional Cash Transfer
158. Bell 2008 ^{170 171}	Wrong outcome - E&A to FP and No outcome of FP
159. Jaicy 2015 ¹⁷²	Wrong outcome – No FP outcome

160. Santhya 2008 ¹⁷³	Wrong study design – No control arm
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