

LACK OF ACCESS TO MATERNAL HEALTHCARE IN SUB-SAHARAN

AFRICA

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FOOTNOTES

1. "Antenatal Care," The Free Dictionary by Farlex, accessed November 30, 2021, <https://medical-dictionary.thefreedictionary.com/antenatal+care>.
2. "Birth Control, Contraception, Contraceptives," National Library of Medicine, accessed November 30, 2020, <https://medlineplus.gov/birthcontrol.html#:~:text=Birth%20control%2C%20also%20known%20as,cervical%20caps%2C%20and%20contraceptive%20sponges>.
3. Dorothy Shaw, "The ABC's of Family Planning," The Partnership for Maternal, Newborn, and Child Health, World Health Organization, March 22, 2010, https://www.who.int/pmnch/media/news/2010/20100322_d_shaw_oped/en/.
4. "Maternal Mortality Rate (Per 100,000 Live Births)," World Health Organization, accessed October 24, 2020, <https://www.who.int/data/gho/indicator-metadata-registry/imr-details/26>.
5. Singh Kavita, William T. Story, and Allisyn C. Moran, "Assessing the Continuum of Care Pathway for Maternal Health in South Asia and Sub-Saharan Africa," *Maternal and Child Health Journal* 20, no. 2 (2016): 281–289, accessed January 22, 2022, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4740215/>.
6. "Morbidity," Oxford Languages, accessed November 30, 2020, <https://www.google.com/search?q=morbidity&oq=morbidity&aqs=chrome..69i57j0i10i433i457j0i10i433i5j0i10.4460j1j4&sourceid=chrome&ie=UTF-8>
7. "World Health Organization: Neonatal and Perinatal Mortality: Country, Regional and Global Estimates," World Health Organization, accessed February 20, 2022, <https://apps.who.int/iris/handle/10665/43444>.
8. "Obstetrical Care," OC Women's Care, December 29, 2021, <https://www.ocwomenscare.com/obstetrical-care.html>.
9. Judith Lumley, "Defining the Problem: The Epidemiology of Preterm Birth," *JOG: An International Journal of Obstetrics & Gynaecology* 110 (April 1, 2003): 3–7, <https://doi.org/10.1046/j.1471-0528.2003.00011.x>.
10. "Definition of Skilled Health Personnel Providing Care during Childbirth," United Nations Children's Fund, January 14, 2019, <https://data.unicef.org/resources/definition-of-skilled-health-personnel-providing-care-during-child-birth/>.
11. "Maternal Health," World Health Organization, accessed January 4, 2022, <https://www.who.int/westernpacific/health-topics/maternal-health>.
12. Mardieh L. Dennis et al., "Initiation and Continuity of Maternal Healthcare: Examining the Role of Vouchers and User-Fee Removal on Maternal Health Service Use in Kenya," *Health Policy and Planning* 34, no. 2 (2019): 120–31, <https://doi.org/10.1093/heapol/czz004>.
13. Tesfalidet Tekelab et al., "The Impact of Antenatal Care on Neonatal Mortality in Sub-Saharan Africa: A Systematic Review and Meta-Analysis," *PLOS ONE* 14, no. 9 (2019), <https://doi.org/10.1371/journal.pone.0222566>.
14. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.
15. "Antenatal Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/antenatal-care/>.
16. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.

17. "Antenatal Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/antenatal-care/>.
18. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.
19. "Labor and Delivery," Healthline, November 5, 2018, <https://www.healthline.com/health/pregnancy/labor-and-delivery>.
20. "Comprehensive Midwifery Programme Guidance," United Nations Fund for Population Activities, Accessed November 21, 2020, <https://www.unfpa.org/sites/default/files/resource-pdf/Midwifery%20Programme%20Guidance.pdf>.
21. "Labor and Delivery," Healthline, November 5, 2018, <https://www.healthline.com/health/pregnancy/labor-and-delivery>.
22. "Setting Standards for Emergency Obstetric and Newborn Care," United Nations Fund for Population Activities, accessed July 23, 2021, <https://www.unfpa.org/resources/setting-standards-emergency-obstetric-and-newborn-care>.
23. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.
24. Ibid.
25. Ibid.
26. "How Can I Prevent Getting HIV From Sex?" Center for Disease Control and Prevention, accessed May 20, 2021, <https://www.cdc.gov/hiv/basics/hiv-prevention/protect-yourself-during-sex.html>.
27. Kevin R. O'Reilly et al., "Family Planning Counseling for Women Living with HIV: A Systematic Review of the Evidence of Effectiveness on Contraceptive Uptake and Pregnancy Incidence, 1990 to 2011," *BioMed Central Public Health* 13, no. 1 (October 8, 2013): 935, <https://doi.org/10.1186/1471-2458-13-935>.
28. "Maternal Mortality," United Nations Children's Fund, accessed July 15, 2021, <https://data.unicef.org/topic/maternal-health/maternal-mortality/>.
29. "Newborns: Improving Survival and Well-Being," World Health Organization, accessed October 8, 2020, <https://www.who.int/en/news-room/fact-sheets/detail/newborns-reducing-mortality>.
30. Ibid.
31. "Maternal Mortality," United Nations Children's Fund, accessed July 15, 2021, <https://data.unicef.org/topic/maternal-health/maternal-mortality/>.
32. "Delivery Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/delivery-care/>.
33. "Maternal Mortality," World Health Organization, accessed February 20, 2022, <https://www.who.int/news-room/fact-sheets/detail/maternal-mortality#:~:text=94%25%20of%20all%20maternal%20deaths,lives%20of%20women%20and%20newborns>.
34. Kavita Singh, William T. Story, and Allisyn C. Moran, "Assessing the Continuum of Care Pathway for Maternal Health in South Asia and Sub-Saharan Africa," *Maternal and Child Health* 20, no. 2 (2016): 281–289, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4740215/>.
35. "Public Health Impact: Postpartum Visit," America's Health Rankings: United Health Foundation, accessed February 20, 2022, https://www.americashealthrankings.org/explore/health-of-women-and-children/measure/postpartum_visit/state/ALL?edition-year=2016.
36. Mary V. Kinney et al, "Sub-Saharan Africa's Mothers, Newborns, and Children: Where and Why Do They Die?" *PLOS Medicine*, June 21, 2010, <https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1000294>.
37. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
38. Mary V. Kinney et al, "Sub-Saharan Africa's Mothers, Newborns, and Children: Where and Why Do They Die?" *PLOS Medicine*, June 21, 2010, <https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1000294>.
39. "Delivery Care" United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/delivery-care/>.

40. "Sub-Saharan Africa: Total Population 2010–2020," Statista, accessed September 18, 2021, <https://www.statista.com/statistics/805605/total-population-sub-saharan-africa/>.
41. "Sub-Saharan Africa," *New World Encyclopedia*, accessed October 24, 2020, https://www.newworldencyclopedia.org/entry/Sub-Saharan_Africa#:~:text=Sub%2DSaharan%20Africa%20is%20the,edge%20of%20the%20Sahara%20Desert.
42. "Newborns: Improving Survival and Well-Being," World Health Organization, accessed October 8, 2020. <https://www.who.int/en/news-room/fact-sheets/detail/newborns-reducing-mortality>.
43. "Maternal Mortality Rates and Statistics," United Nations Children's Fund, accessed July 16, 2021, <https://data.unicef.org/topic/maternal-health/maternal-mortality/>.
44. "Delivery Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/delivery-care/>.
45. William Eaterly, "How the Millennium Development Goals Are Unfair to Africa," Brookings, accessed February 20, 2022, <https://www.brookings.edu/research/how-the-millennium-development-goals-are-unfair-to-africa/>.
46. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
47. "Maternal, Newborn, Child, and Adolescent Health and Aging," World Health Organization, accessed February 20, 2022, [https://www.who.int/data/maternal-newborn-child-adolescent-ageing/indicator-explorer-new/mca/women-of-reproductive-age-\(15-49-years\)-population-\(thousands\)](https://www.who.int/data/maternal-newborn-child-adolescent-ageing/indicator-explorer-new/mca/women-of-reproductive-age-(15-49-years)-population-(thousands)).
48. Tensae Menonnen, Tinashe Dune, and Janette Perz, "Maternal Health Service Utilisation of Adolescent Women in Sub-Saharan Africa: A Systematic Scoping Review," *BioMed Central Pregnancy and Childbirth* 19, no. 366 (October 21, 2019): 1–16, <https://doi.org/10.1186/s12884-019-2501-6>.
49. Minerva Kyei-Nimakoh, Mary Carolan-Olah, and Terence V. McCann, "Access Barriers to Obstetric Care at Health Facilities in Sub-Saharan Africa—A Systematic Review," *Systematic Reviews* 6, no. 1 (2017): 110, <https://doi.org/10.1186/s13643-017-0503-x>.
50. Cyril E. Engmann et al., "Shifting Norms: Pregnant Women's Perspectives on Skilled Birth Attendance and Facility-Based Delivery in Rural Ghana," *African Journal of Reproductive Health* 17, no. 1 (2013): 15–26, <http://www.jstor.org/stable/23486132>.
51. Kerry LM Wong, Lenka Benova, and Oona MR Campbell, "A Look Back on How Far to Walk: Systematic Review and Meta-Analysis of Physical Access to Skilled Care for Childbirth in Sub-Saharan Africa," *PLOS ONE*, 12, no. 9 (2017), <https://doi.org/10.1371/journal.pone.0184432>.
52. Kerry LM Wong et al., "Too Poor or Too Far? Partitioning the Variability of Hospital-Based Childbirth by Poverty and Travel Time in Kenya, Malawi, Nigeria and Tanzania," *International Journal for Equity in Health* 19, no. 15 (January 28, 2020), <https://doi.org/10.1186/s12939-020-1123-y>.
53. Ijeoma Nkem Alex-Okedo et al., "Determinants of Antenatal Care Utilisation in Sub-Saharan Africa: A Systematic Review," *BMJ open* 9, no. 10 (2019), <https://bmjopen.bmj.com/content/9/10/e031890>.
54. Kilian Nasung Atuoye et al., "Can She Make It? Transportation Barriers to Accessing Maternal and Child Health Care Services in Rural Ghana," *BioMed Central Health Services Research* 15, no. 1 (2015): 333, <https://doi.org/10.1186/s12913-015-1005-y>.
55. Minerva Kyei-Nimakoh, Mary Carolan-Olah, and Terence V. McCann, "Access Barriers to Obstetric Care at Health Facilities in Sub-Saharan Africa—A Systematic Review," *Systematic Reviews* 6, no. 1 (2017): 110, <https://doi.org/10.1186/s13643-017-0503-x>.
56. Giacomo Falchetta, Ahmed T. Hammad, and Soheil Shayegh, "Planning Universal Accessibility to Public Healthcare in Sub-Saharan Africa," *Proceedings of the National Academy of Sciences* 117, no. 50 (2020): 31760–31769, <https://doi.org/10.1073/pnas.2009172117>.
57. Kerry LM Wong, Lenka Benova, and Oona MR Campbell, "A Look Back on How Far to Walk: Systematic Review and Meta-Analysis of Physical Access to Skilled Care for Childbirth in Sub-Saharan Africa," *PLOS ONE*, 12, no. 9 (2017), <https://doi.org/10.1371/journal.pone.0184432>.
58. Ibid.
59. Nicholas NA Kyei, Oona MR Campbell, and Sabine Gabrysch, "The Influence of Distance and Level of Service Provision on Antenatal Care Use in Rural Zambia," (2012): e46475, <https://doi.org/10.1371/journal.pone.0046475>.

60. Joseph O. Ugboaja, Nwosu O. Berthrand, Anthony O. Igwegbe, and Amaka L. Obi-Nwosu, "Barriers to Postnatal Care and Exclusive Breastfeeding among Urban Women in Southeastern Nigeria," *Nigerian Medical Journal: Journal of the Nigeria Medical Association* 54, no. 1 (2013): 45, <https://doi.org/10.4103/0300-1652.108895>.
61. "Setting Standards for Emergency Obstetric and Newborn Care," United Nations Fund for Population Activities, accessed July 23, 2021, <https://www.unfpa.org/resources/setting-standards-emergency-obstetric-and-newborn-care>.
62. Kerry LM Wong, Lenka Benova, and Oona MR Campbell, "A Look Back on How Far to Walk: Systematic Review and Meta-Analysis of Physical Access to Skilled Care for Childbirth in Sub-Saharan Africa," *PLOS ONE*, 12, no. 9 (2017), <https://doi.org/10.1371/journal.pone.0184432>.
63. Kilian Nasung Atuoye et al., "Can She Make It? Transportation Barriers to Accessing Maternal and Child Health Care Services in Rural Ghana," *BioMed Central Health Services Research* 15, no. 1 (2015): 333, <https://doi.org/10.1186/s12913-015-1005-y>.
64. Kerry LM Wong et al., "Too Poor or Too Far? Partitioning the Variability of Hospital-Based Childbirth by Poverty and Travel Time in Kenya, Malawi, Nigeria and Tanzania," *International Journal for Equity in Health* 19, no. 15 (January 28, 2020), <https://doi.org/10.1186/s12939-020-1123-y>.
65. Kilian Nasung Atuoye et al., "Can She Make It? Transportation Barriers to Accessing Maternal and Child Health Care Services in Rural Ghana," *BioMed Central Health Services Research* 15, no. 1 (2015): 333, <https://doi.org/10.1186/s12913-015-1005-y>.
66. Steven Jones et al., "Public Transport and Health Outcomes in Rural Sub-Saharan Africa—A Synthesis of Professional Opinion," *Journal of Transport & Health* 3, no. 2 (June 2016): 211–219, <https://doi.org/10.1016/j.jth.2015.12.005>.
67. Kilian Nasung Atuoye et al., "Can She Make It? Transportation Barriers to Accessing Maternal and Child Health Care Services in Rural Ghana," *BioMed Central Health Services Research* 15, no. 1 (2015): 333, <https://doi.org/10.1186/s12913-015-1005-y>.
68. Judie Arnold et al., "Getting There: Overcoming Barriers to Reproductive and Maternal Health Services Access in 2 Northern Togo—A Qualitative Study," *World Medical & Health Policy* 8, no. 3 (2016): 223–244, <https://doi.org/10.1002/wmh3.195>.
69. Mirgissa Kaba et al., "Maternal Health Service Utilization in Urban Slums of Selected Towns in Ethiopia: Qualitative Study," *Ethiopian Journal of Health Development* 31, no. 2 (2017): 96–102, <https://www.ajol.info/index.php/ejhd/article/view/167770>.
70. Kerry LM Wong, Lenka Benova, and Oona MR Campbell, "A Look Back on How Far to Walk: Systematic Review and Meta-Analysis of Physical Access to Skilled Care for Childbirth in Sub-Saharan Africa," *PLOS ONE*, 12, no. 9 (2017), <https://doi.org/10.1371/journal.pone.0184432>.
71. Ibid.
72. Abdisalan M. Noor et al., "Modeling Distances Traveled to Government Health Services in Kenya," *Tropical Medicine & International Health* 11, no. 2 (2006): 188–196, <https://onlinelibrary.wiley.com/doi/10.1111/j.1365-3156.2005.01555.x>.
73. Tensae Menonnen, Tinashe Dune, and Janette Perz, "Maternal Health Service Utilisation of Adolescent Women in Sub-Saharan Africa: A Systematic Scoping Review," *BioMed Central Pregnancy and Childbirth* 19, no. 366 (October 21, 2019): 1–16, <https://doi.org/10.1186/s12884-019-2501-6>.
74. Nnennaya N. Kalu-Umeh et al., "Costs and Patterns of Financing Maternal Healthcare Services in Rural Communities in Northern Nigeria: Evidence for Designing National Fee Exemption Policy," *International Journal of Maternal and Child Health and AIDS* 2, no. 1 (2013): 163, <https://pubmed.ncbi.nlm.nih.gov/27621969/>.
75. Kerry LM Wong et al., "Too Poor or Too Far? Partitioning the Variability of Hospital-Based Childbirth by Poverty and Travel Time in Kenya, Malawi, Nigeria and Tanzania," *International Journal for Equity in Health* 19, no. 15 (January 28, 2020), <https://doi.org/10.1186/s12939-020-1123-y>.
76. "Maternal Mortality," World Health Organization, Accessed February 20, 2022, <https://www.who.int/news-room/fact-sheets/detail/maternal-mortality#:~:text=94%25%20of%20all%20maternal%20deaths,lives%20of%20women%20and%20newborns.>

77. Minerva Kyei-Nimakoh, Mary Carolan-Olah, and Terence V. McCann, "Access Barriers to Obstetric Care at Health Facilities in Sub-Saharan Africa—A Systematic Review," *Systematic Reviews* 6, no. 1 (2017): 110, <https://doi.org/10.1186/s13643-017-0503-x>.
78. "Maternal Deaths Disproportionately High in Developing Countries," World Health Organization, accessed January 20, 2022, <https://www.who.int/news/item/20-10-2003-maternal-deaths-disproportionately-high-in-developing-countries>.
79. Marta Schoch and Christoph Lakner, "The Number of Poor People Continues to Rise in Sub-Saharan Africa, Despite a Slow Decline in the Poverty Rate," *World Bank*, accessed May 23, 2021, <https://blogs.worldbank.org/opendata/number-poor-people-continues-rise-sub-saharan-africa-despite-slow-decline-poverty-rate>.
80. "Maternal Mortality," World Health Organization, accessed February 20, 2022, <https://www.who.int/news-room/fact-sheets/detail/maternal-mortality#:~:text=94%25%20of%20all%20maternal%20deaths,lives%20of%20women%20and%20newborns>.
81. Nnennaya N. Kalu-Umeh et al., "Costs and Patterns of Financing Maternal Healthcare Services in Rural Communities in Northern Nigeria: Evidence for Designing National Fee Exemption Policy," *International Journal of Maternal and Child Health and AIDS* 2, no. 1 (2013): 163, <https://pubmed.ncbi.nlm.nih.gov/27621969/>.
82. Ansu-Mensah et al., "Maternal Perceptions of the Quality of Care in the Free Maternal Care Policy in Sub-Saharan Africa: A Systematic Scoping Review," *BioMed Central Health Services Research* 20, (2020): 1–11, <https://bmchealthservres.biomedcentral.com/articles/10.1186/s12913-020-05755-9>.
83. Minerva Kyei-Nimakoh, Mary Carolan-Olah, and Terence V. McCann, "Access Barriers to Obstetric Care at Health Facilities in Sub-Saharan Africa—A Systematic Review," *Systematic Reviews* 6, no. 1 (2017): 110, <https://doi.org/10.1186/s13643-017-0503-x>.
84. Cheryl A. Moyer et al., "'It's Up to the Woman's People:' How Social Factors Influence Facility-Based Delivery in Rural Northern Ghana," *Maternal and Child Health Journal* 18, no. 1 (2014): 109–119, <https://pubmed.ncbi.nlm.nih.gov/23423857/>.
85. Cyril E. Engmann et al., "Shifting Norms: Pregnant Women's Perspectives on Skilled Birth Attendance and Facility-Based Delivery in Rural Ghana," *African Journal of Reproductive Health* 17, no. 1 (2013): 15–26, <http://www.jstor.org/stable/23486132>.
86. Meghan A. Bohren et al., "The Mistreatment of Women During Childbirth in Health Facilities Globally: A Mixed-Methods Systematic Review," *PLoS Medicine* 12, no. 6 (June 2015), <https://pubmed.ncbi.nlm.nih.gov/26126110/>.
87. Cyril E. Engmann et al., "Shifting Norms: Pregnant Women's Perspectives on Skilled Birth Attendance and Facility-Based Delivery in Rural Ghana," *African Journal of Reproductive Health* 17, no. 1 (2013): 15–26, <http://www.jstor.org/stable/23486132>.
88. Ibid.
89. Meghan A. Bohren et al., "The Mistreatment of Women during Childbirth in Health Facilities Globally: A Mixed-Methods Systematic Review," *PLoS Medicine* 12, no. 6 (June 2015), <https://pubmed.ncbi.nlm.nih.gov/26126110/>.
90. Ibid.
91. Amber Hsiao, Verena Vogt, and Wilm Quentin, "Effect of Corruption on Perceived Difficulties in Healthcare Access in Sub-Saharan Africa," *PLoS ONE* 14, no. 8 (August 21, 2019), <https://doi.org/10.1371/journal.pone.0220583>.
92. Ijeoma Nkem Alex-Okedo et al., "Determinants of Antenatal Care Utilisation in Sub-Saharan Africa: A Systematic Review," *BMJ open* 9, no. 10 (2019), <https://bmjopen.bmj.com/content/9/10/e031890>.
93. Akashi Andrew Rurangirwa et al., "Determinants of Poor Utilization of Antenatal Care Services Among Recently Delivered Women in Rwanda; A Population Based Study," *BioMed Central Pregnancy and Childbirth* 17, no. 1 (2017): 1–10, <https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-017-1328-2>.
94. Marius Zambou Vouking, Christine Danielle Evina, and Carine Nouboudem Tadenfok, "Male Involvement in Family Planning Decision Making in Sub-Saharan Africa-What the Evidence Suggests," *The Pan African Medical Journal* 19, (December 3, 2014),

- [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4406389/#:~:text=Male%20involvement%20helps%20not%20only,its%20effective%20use%20and%20continuation.&text=In%20the%20Nigerian%20study%2C%20almost,condom%20was%20highest%20\(98%25\)](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4406389/#:~:text=Male%20involvement%20helps%20not%20only,its%20effective%20use%20and%20continuation.&text=In%20the%20Nigerian%20study%2C%20almost,condom%20was%20highest%20(98%25)).
95. Ndola Prata et al., "Partner Support for Family Planning and Modern Contraceptive Use in Luanda, Angola," *African Journal of Reproductive Health* 21, no. 2 (2017): 35–48, <https://pubmed.ncbi.nlm.nih.gov/29624938/>.
 96. Ibid.
 97. Marius Zambou Vouking, Christine Danielle Evina, and Carine Nouboudem Tadenfok, "Male Involvement in Family Planning Decision Making in Sub-Saharan Africa-What the Evidence Suggests," *The Pan African Medical Journal* 19, (December 3, 2014), [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4406389/#:~:text=Male%20involvement%20helps%20not%20only,its%20effective%20use%20and%20continuation.&text=In%20the%20Nigerian%20study%2C%20almost,condom%20was%20highest%20\(98%25\)](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4406389/#:~:text=Male%20involvement%20helps%20not%20only,its%20effective%20use%20and%20continuation.&text=In%20the%20Nigerian%20study%2C%20almost,condom%20was%20highest%20(98%25)).
 98. Akashi Andrew Rurangirwa et al., "Determinants of Poor Utilization of Antenatal Care Services Among Recently Delivered Women in Rwanda; A Population Based Study," *BioMed Central Pregnancy and Childbirth* 17, no. 1 (2017): 1–10, <https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-017-1328-2>.
 99. Steve Crabtree and Sofia Kluch, "How Many Women Worldwide Are Single Moms?" *Gallup*, March 5, 2020, <https://news.gallup.com/poll/286433/women-worldwide-single-moms.aspx>.
 100. Rob Stephenson et al., "Contextual Influences on the Use of Health Facilities for Childbirth in Africa," *American Journal of Public Health* 96, no. 1 (2006): 84–93, <https://pubmed.ncbi.nlm.nih.gov/16317204/>.
 101. Ibid.
 102. Akashi Andrew Rurangirwa et al., "Determinants of Poor Utilization of Antenatal Care Services among Recently Delivered Women in Rwanda; A Population Based Study," *BioMed Central Pregnancy and Childbirth* 17, no. 1 (2017): 1–10, <https://bmcpregnancychildbirth.biomedcentral.com/articles/10.1186/s12884-017-1328-2>.
 103. Cyril E. Engmann et al., "Shifting Norms: Pregnant Women's Perspectives on Skilled Birth Attendance and Facility-Based Delivery in Rural Ghana," *African Journal of Reproductive Health* 17, no. 1 (2013): 15–26, <http://www.jstor.org/stable/23486132>.
 104. Ibid.
 105. Rachel Lang-Balde and Roxanne Amerson, "Culture and Birth Outcomes in Sub-Saharan Africa: A Review of Literature," *Journal of Transcultural Nursing* 29, no. 5 (2018): 465–472, <https://pubmed.ncbi.nlm.nih.gov/30105959/>.
 106. Ibid.
 107. Cheryl A. Moyer et al., "'It's Up to the Woman's People:' How Social Factors Influence Facility-Based Delivery in Rural Northern Ghana," *Maternal and Child Health Journal* 18, no. 1 (2014): 109–119, <https://pubmed.ncbi.nlm.nih.gov/23423857/>.
 108. Rachel Lang-Balde and Roxanne Amerson, "Culture and Birth Outcomes in Sub-Saharan Africa: A Review of Literature," *Journal of Transcultural Nursing* 29, no. 5 (2018): 465–472, <https://pubmed.ncbi.nlm.nih.gov/30105959/>.
 109. "Delivery Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/delivery-care/>.
 110. Cheryl A. Moyer et al., "'It's Up to the Woman's People:' How Social Factors Influence Facility-Based Delivery in Rural Northern Ghana," *Maternal and Child Health Journal* 18, no. 1 (2014): 109–119, <https://pubmed.ncbi.nlm.nih.gov/23423857/>.
 111. Aimee Brighton et al., "Perceptions of Prenatal and Obstetric Care in Sub-Saharan Africa," *International Journal of Gynecology & Obstetrics* 120, no. 3 (2013): 224–227, <https://pubmed.ncbi.nlm.nih.gov/23228816/>.
 112. Cheryl A. Moyer et al., "'It's Up to the Woman's People:' How Social Factors Influence Facility-Based Delivery in Rural Northern Ghana," *Maternal and Child Health Journal* 18, no. 1 (2014): 109–119, <https://pubmed.ncbi.nlm.nih.gov/23423857/>.
 113. Aimee Brighton et al., "Perceptions of Prenatal and Obstetric Care in Sub-Saharan Africa," *International Journal of Gynecology & Obstetrics* 120, no. 3 (2013): 224–227, <https://pubmed.ncbi.nlm.nih.gov/23228816/>.
 114. Ibid.

115. Corrina Moucheraud et al., "Consequences of Maternal Mortality on Infant and Child Survival: A 25-year Longitudinal Analysis in Butajira Ethiopia (1987-2011)," *Reproductive Health* 12, no. S1 (May 6, 2015): S4, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4423767/>.
116. Marideh L. Dennis et al., "Initiation and Continuity of Maternal Healthcare: Examining the Role of Vouchers and User-Fee Removal on Maternal Health Service Use in Kenya," *Health Policy and Planning* 34, no. 2 (2019): 120–131, <https://academic.oup.com/heapol/article/34/2/120/5370322>.
117. "Antenatal Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/antenatal-care/>.
118. "Maternal Mortality," World Health Organization, accessed February 20, 2022, <https://www.who.int/news-room/fact-sheets/detail/maternal-mortality#:~:text=94%25%20of%20all%20maternal%20deaths,lives%20of%20women%20and%20newborns>.
119. Ibid.
120. Jamie M. Sommer et al., "Water, Sanitation, and Health in Sub-Saharan Africa: A Cross-National Analysis of Maternal and Neo-Natal Mortality," *Human Ecology Review* 22, no. 1 (2016): 129–154, <https://www.proquest.com/docview/1784112809?accountid=4488&parentSessionId=gSkXDKxws3oUN33E91fxCNwKCko4i7GebRYA4KWAhjw%3D>.
121. "Maternal Mortality," World Health Organization, accessed February 20, 2022, <https://www.who.int/news-room/fact-sheets/detail/maternal-mortality#:~:text=94%25%20of%20all%20maternal%20deaths,lives%20of%20women%20and%20newborns>.
122. Mary V. Kinney et al., "Sub-Saharan Africa's Mothers, Newborns, and Children: Where and Why Do They Die?" *PLOS Medicine*, June 21, 2010, <https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1000294>.
123. "UNAIDS World AIDS Day Report 2012," Joint United Nations Programme on HIV/AIDS, accessed February 22, 2022, https://www.unaids.org/sites/default/files/media_asset/JC2434_WorldAIDSday_results_en_1.pdf.
124. Debrework Tesgera Bashah, Abebaw Gebeyehu Worku, and Mezgebu Yitayal Mengistu, "Consequences of Obstetric Fistula in Sub-Saharan African Countries, From Patients' Perspective: A Systematic Review of Qualitative Studies," *BioMed Central Women's Health* 18, no. 106 (2018): 1–12, <https://bmcwomenshealth.biomedcentral.com/articles/10.1186/s12905-018-0605-1>.
125. Mary Kimani, "Investing in the Health of Africa's Mothers," *Africa Renewal*, September 5, 2012, <https://www.un.org/africarenewal/magazine/special-edition-women-2012/investing-health-africa%E2%80%99s-mothers>.
126. Ibid.
127. "How Can I Prevent Getting HIV From Sex?" Center for Disease Control and Prevention, accessed May 20, 2021, <https://www.cdc.gov/hiv/basics/hiv-prevention/protect-yourself-during-sex.html>.
128. Kevin R. O'Reilly et al., "Family Planning Counseling for Women Living with HIV: A Systematic Review of the Evidence of Effectiveness on Contraceptive Uptake and Pregnancy Incidence, 1990 to 2011," *BioMed Central Public Health* 13, no. 1 (October 8, 2013): 935, <https://doi.org/10.1186/1471-2458-13-935>.
129. "Newborns: Improving Survival and Well-Being," World Health Organization, accessed October 8, 2020, <https://www.who.int/en/news-room/fact-sheets/detail/newborns-reducing-mortality>.
130. L. H. Marum, D. Tindyebwa, and D. Gibb, "Care of Children with HIV Infection and AIDS in Africa," *National Library of Medicine* 11, (1997): S125–S134, <https://pubmed.ncbi.nlm.nih.gov/9416374/>.
131. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.
132. "Antenatal Care," United Nations Children's Fund, accessed February 20, 2022, <https://data.unicef.org/topic/maternal-health/antenatal-care/>.

133. Tesfalidet Tekelab et al., "The Impact of Antenatal Care on Neonatal Mortality in Sub-Saharan Africa: A Systematic Review and Meta-Analysis," *PLOS ONE* 14, no. 9 (2019), <https://doi:10.1371/journal.pone.0222566>.
134. Pablo Viguera Ester et al., "Factors Associated to Infant Mortality in Sub-Saharan Africa," *Journal of Public Health in Africa* 2, no. 2 (2011), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5345500/>.
135. "Born Too Soon: The Global Action Report on Preterm Birth," World Health Organization, accessed November 5, 2020, https://www.who.int/pmnch/knowledge/publications/preterm_birth_report/en/index3.html#:~:text=P%20reterm%20births%20account%20for%2011.1,percent%20in%20higher%20income%20countries.
136. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.
137. Tesfalidet Tekelab et al., "The Impact of Antenatal Care on Neonatal Mortality in Sub-Saharan Africa: A Systematic Review and Meta-Analysis," *PLOS ONE* 14, no. 9 (2019), <https://doi:10.1371/journal.pone.0222566>.
138. Pablo Viguera Ester et al., "Factors Associated to Infant Mortality in Sub-Saharan Africa," *Journal of Public Health in Africa* 2, no. 2 (2011), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5345500/>.
139. Ibid.
140. "Newborns: Improving Survival and Well-Being," World Health Organization, accessed October 8, 2020, <https://www.who.int/en/news-room/fact-sheets/detail/newborns-reducing-mortality>.
141. Ibid.
142. "WHO Recommendations on Maternal Health: Guidelines Approved by The WHO Guidelines Review Committee," World Health Organization, May 2, 2017, <https://www.who.int/publications/i/item/WHO-MCA-17.10>.
143. Loretta Gavin, "Providing Quality Family Planning Services: Recommendations of CDC and the U.S. Office of Population Affairs," Center for Disease Control, accessed September 28, 2021, <https://www.cdc.gov/mmwr/preview/mmwrhtml/rr6304a1.htm>.
144. Leonardo Chavane et al., "Assessing Women's Satisfaction with Family Planning Services in Mozambique," *Journal of Family Planning and Reproductive Health Care* 43, no. 3 (2017): 222–228, <https://pubmed.ncbi.nlm.nih.gov/27609667/#:~:text=Results%3A%20Overall%2C%2086%25%20of,as%20reasons%20for%20women's%20dissatisfaction>.
145. Woineshet Astrat, Teferi Mekonnen, and Melkamu Bedimo, "Assessment of Women's Satisfaction with Family Planning Service at Public Health Facilities in Northwest Region of Ethiopia: A Cross Sectional Study," *Contraception and Reproductive Medicine* 3, no. 25 (2018): 1–8, <https://contraceptionmedicine.biomedcentral.com/articles/10.1186/s40834-018-0079-4>.
146. "Contraceptive Use by Method 2019," United Nations: Department of Economic and Social Affairs, 2019, https://www.un.org/development/desa/pd/sites/www.un.org.development.desa.pd/files/files/documents/2020/Jan/un_2019_contraceptiveusebymethod_databooklet.pdf.
147. Edward Kwabena Ameyaw et al., "Prevalence and Determinants of Unintended Pregnancy in Sub-Saharan Africa: A Multi-country Analysis of Demographic and Health Surveys," *PloS One* 14, no. 8 (2019), <https://pubmed.ncbi.nlm.nih.gov/31398240/>.
148. "UNAIDS World AIDS Day Report 2012," Joint United Nations Programme on HIV/AIDS, accessed February 22, 2022, https://www.unaids.org/sites/default/files/media_asset/JC2434_WorldAIDSday_results_en_1.pdf.
149. Ayesha BM Kharsany and Quarraisha A. Karim, "HIV Infection and AIDS in Sub-Saharan Africa: Current Status, Challenges and Opportunities," *The Open AIDS Journal* 10, (2016): 34, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4893541/>.
150. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
151. "From MDGs to SDGs," Sustainable Development Goals Fund, accessed February 22, 2022, <https://www.sdgfund.org/mdgs-sdgs>.

152. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
153. Kerfalla Yansane, "An African Perspective of the Millennium Development Goals: From Skepticism to Leadership and Hope," *Department of Economic and Social Affairs*, accessed February 22, 2022, <https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/publication/CDP-bp-2005-7.pdf>.
154. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
155. Ibid.
156. Ibid.
157. "Trends in Maternal Mortality: 1990–2015," World Health Organization, accessed February 22, 2022, <https://www.unfpa.org/publications/trends-maternal-mortality-1990-2015#:~:text=Estimates%20by%20WHO%2C%20UNICEF%2C%20UNFPA,the%20United%20Nations%20Population%20Division&text=The%20global%20maternal%20death%20ratio,an%20estimated%20303%2C000%20in%202015.>
158. "From MDGs to SDGs," Sustainable Development Goals Fund, accessed February 22, 2022, <https://www.sdgfund.org/mdgs-sdgs>.
159. Ibid.
160. Ibid.
161. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
162. "From MDGs to SDGs," Sustainable Development Goals Fund, accessed February 22, 2022, <https://www.sdgfund.org/mdgs-sdgs>.
163. "A UN Mechanism to Invest in Joint Partnerships for SDGs," Sustainable Development Goals Fund, December 17, 2014, <https://www.sdgfund.org/who-we-are>.
164. "Delivering on Commitments," MDG Achievement Funds, accessed July 11, 2021, <http://mdgfund.org/node/4>.
165. Kerfalla Yansane, "An African Perspective of the Millennium Development Goals: From Skepticism to Leadership and Hope," *Department of Economic and Social Affairs*, accessed February 22, 2022, <https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/publication/CDP-bp-2005-7.pdf>.
166. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
167. "Africa's Hard Road to the Millennium Development Goals," *Africa Renewal*, August 15, 2010, <https://www.un.org/africarenewal/magazine/august-2010/africa%E2%80%99s-hard-road-millennium-development-goals>.
168. Mary V. Kinney et al, "Sub-Saharan Africa's Mothers, Newborns, and Children: Where and Why Do They Die?," *PLOS Medicine*, June 21, 2010, <https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1000294>.
169. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
170. William Eaterly, "How the Millennium Development Goals Are Unfair to Africa," *Brookings*, accessed February 20, 2022, <https://www.brookings.edu/research/how-the-millennium-development-goals-are-unfair-to-africa/>.
171. "Millennium Development Goals (MDGs)," World Health Organization, accessed May 22, 2021, [https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-\(mdgs\)](https://www.who.int/news-room/fact-sheets/detail/millennium-development-goals-(mdgs)).
172. "Transforming Our World: The 2030 Agenda for Sustainable Development," *United Nations Sustainable Development*, accessed February 20, 2022, <https://sdgs.un.org/2030agenda#:~:text=We%20resolve%2C%20between%20now%20and,protection%20of%20the%20planet%20and.>
173. "Human Development Report 2003: Millennium Development Goals: A Compact Among Nations to End Human Poverty," *United Nations*, accessed February 20, 2022, <https://doi.org/10.18356/453b7968-en>.

174. William Eaterly, "How the Millennium Development Goals Are Unfair to Africa," Brookings, accessed February 20, 2022, <https://www.brookings.edu/research/how-the-millennium-development-goals-are-unfair-to-africa/>.
175. "Transforming Our World: The 2030 Agenda for Sustainable Development," United Nations Sustainable Development, accessed February 20, 2022, <https://sdgs.un.org/2030agenda#:~:text=We%20resolve%2C%20between%20now%20and,protection%20of%20the%20planet%20and.>
176. Kerfalla Yansane, "An African Perspective of the Millennium Development Goals: From Skepticism to Leadership and Hope," Department of Economic and Social Affairs, accessed February 22, 2022, <https://www.un.org/development/desa/dpad/wp-content/uploads/sites/45/publication/CDP-bp-2005-7.pdf>.
177. Ibid.
178. "More Midwives Needed to Improve Maternal and Newborn Survival," World Health Organization, accessed November 11, 2020, <https://apps.who.int/iris/handle/10665/271414>.
179. "Our Work," Every Mother Counts (EMC), accessed October 25, 2021, <https://everymothercounts.org/our-work/>.
180. "Mothers2mothers," Skoll, accessed October 25, 2021, <https://skoll.org/organization/mothers2mothers/>.
181. "Midwifery," United Nations Population Fund (UNFPA), accessed November 11, 2020, <https://www.unfpa.org/midwifery>.
182. "The Maternal and Newborn Health Thematic Fund: Annual Report," UNFPA, 2020, <https://www.unfpa.org/sites/default/files/pub-pdf/UNFPA-MHTF-WEB.pdf>.
183. "Midwifery," United Nations Population Fund (UNFPA), accessed November 11, 2020, <https://www.unfpa.org/midwifery>.
184. "Global Standards for Midwifery Education (2010) Amended 2013," International Confederation of Midwives, 2013, https://www.internationalmidwives.org/assets/files/general-files/2018/04/icm-standards-guidelines_ammended2013.pdf.
185. "More Midwives Needed to Improve Maternal and Newborn Survival," World Health Organization, Accessed November 11, 2020, <https://www.who.int/bulletin/volumes/91/11/13-021113/en/>.
186. "E-Learning Modules for Midwives," United Nations Population Fund (UNFPA), accessed November 21, 2020, <https://www.unfpa.org/resources/e-learning-modules-midwives>.
187. Direct Relief, "Supporting Healthy Mothers | Direct Relief," Direct Relief, February 2, 2018, <https://www.directrelief.org/issue/maternal-health/>.
188. "E-Learning Modules for Midwives," United Nations Population Fund (UNFPA), accessed November 21, 2020, <https://www.unfpa.org/resources/e-learning-modules-midwives>.
189. Ibid.
190. Judith T. Fullerton, and Joyce B. Thompson, "Examining the Evidence for the International Confederation of Midwives' Essential Competencies for Midwifery Practice," *Midwifery* 21, no. 1 (2005): 2–13, <https://pubmed.ncbi.nlm.nih.gov/15740812/>.
191. "E-Learning Modules for Midwives," United Nations Population Fund (UNFPA), accessed November 21, 2020, <https://www.unfpa.org/resources/e-learning-modules-midwives>.
192. "Comprehensive Midwifery Programme Guidance," United Nations Fund for Population Activities, accessed November 21, 2020, <https://www.unfpa.org/sites/default/files/resource-pdf/Midwifery%20Programme%20Guidance.pdf>.
193. Ibid.
194. "Comprehensive Midwifery Programme Guidance," United Nations Fund for Population Activities, Accessed November 21, 2020, <https://www.unfpa.org/sites/default/files/resource-pdf/Midwifery%20Programme%20Guidance.pdf>.
195. Ibid.
196. Ibid.
197. "Midwifery," UNFPA, accessed November 11, 2020, <https://www.unfpa.org/midwifery>.
198. "Mobile Outreach Services," HIPs, accessed November 23, 2020, <https://www.fphighimpactpractices.org/briefs/mobile-outreach-services/>.

199. "End of Project Evaluation of the 'Community Outreach Family Planning Project,'" USAID Center of Health, Agriculture, Development, Research and Consulting, accessed November 24, 2020, https://pdf.usaid.gov/pdf_docs/PA00N3ZB.pdf.
200. "Family Planning and Reproductive Health Program Overview," US Agency for International Development, October 30, 2020, <https://www.usaid.gov/documents/1864/family-planning-and-reproductive-health-program-overview>.
201. "HIPs," HIPs, accessed November 19, 2020, <https://www.fphighimpactpractices.org/>.
202. Heidi Bro, "Mobile Outreach Services," 2014, <https://www.fphighimpactpractices.org/briefs/mobile-outreach-services/>.
203. "Three Successful Sub-Saharan Africa Family Planning Programs: Lessons for Meeting the MDGs," USAID/Africa Bureau, fhi360, accessed November 23, 2020, <https://www.fhi360.org/sites/default/files/media/documents/africa-bureau-case-study-report.pdf>.
204. Leah Jarvis, Jane Wickstrom, and Caitlin Shannon, "Client Perceptions of Quality and Choice at Static, Mobile Outreach, and Special Family Planning Day Services in 3 African Countries," *Global Health: Science and Practice* 6, no. 3 (2018): 439–455, <https://www.ghspjournal.org/content/6/3/439>.
205. "Family Planning and Reproductive Health Program Overview," US Agency for International Development, October 30, 2020, <https://www.usaid.gov/documents/1864/family-planning-and-reproductive-health-program-overview>.
206. "End of Project Evaluation of the 'Community Outreach Family Planning Project,'" USAID Center of Health, Agriculture, Development, Research and Consulting, accessed November 24, 2020, https://pdf.usaid.gov/pdf_docs/PA00N3ZB.pdf.
207. Jane Wickstrom et al., "Approaches to Mobile Outreach Services for Family Planning: A Descriptive Inquiry in Malawi, Nepal, and Tanzania," The RESPOND Project Study Series: Contributions to Global Knowledge, August 2013, <https://www.semanticscholar.org/paper/Approaches-to-mobile-outreach-services-for-family-A-Wickstrom-Yanulis/07cafd6c1bf5b30c00d761a7fbf25ff843341db8>.
208. "Mobile Outreach Services," HIPs, accessed November 23, 2020, <https://www.fphighimpactpractices.org/briefs/mobile-outreach-services/>.
209. Jane Wickstrom et al., "Approaches to Mobile Outreach Services for Family Planning: A Descriptive Inquiry in Malawi, Nepal, and Tanzania," The RESPOND Project Study Series: Contributions to Global Knowledge, August 2013, <https://www.semanticscholar.org/paper/Approaches-to-mobile-outreach-services-for-family-A-Wickstrom-Yanulis/07cafd6c1bf5b30c00d761a7fbf25ff843341db8>.
210. "Mobile Outreach Services," HIPs, accessed November 23, 2020, <https://www.fphighimpactpractices.org/briefs/mobile-outreach-services/>.