Telehealth Research Recap: Maternal Health

Telehealth Use for Maternal Health

The COVID-19 pandemic catalyzed telehealth's rapid expansion and adoption in maternal health care.¹ Health care professionals can use virtual consultations to monitor maternal and fetal health, provide guidance, and support mental well-being.^{2,3} Several studies depicted the distribution of telehealth across various maternal health services, highlighting a substantial rise in virtual care for hypertension, gestational diabetes, and behavioral health.^{4,5,6,7,8} While telehealth can be used for some maternal health visits, in-person visits are required for certain health care services, such as ultrasounds and lab tests.⁹ Figure 1 illustrates the increased use of prenatal telehealth visits for pregnant people.¹⁰

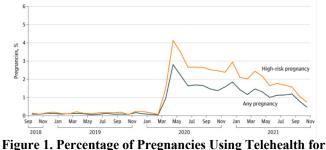


Figure 1. Percentage of Pregnancies Using Telehealth for Prenatal Care¹¹

Telehealth in Prenatal, Antenatal, and Postpartum Care

Implementing telehealth in prenatal, antenatal, and postpartum care has been significant. Remote monitoring of vitals via telehealth platforms led to better management of hypertension in postpartum patient.¹² Additionally, the use of telehealth for postpartum hypertension resulted in reduced readmissions.¹³ There is also high patient satisfaction with prenatal and antenatal visits facilitated through telehealth.^{14,15} A systematic review of the literature shows that providers perceive that telehealth may improve patient's access to care, continuity of care, and appointment attendance.¹⁶ These key findings underscore telehealth's transformative impact on maternal health care.

Telehealth for Maternal Behavioral Health

Recent publications have illuminated the use and effectiveness of telehealth in enhancing care for pregnant and post-partum people grappling with substance use disorders and mental health challenges.^{17,18} During the COVID-19 pandemic, a health system identified an increased frequency of online and text-message-based screening for mothers with behavioral health needs.¹⁹ A study of postpartum depressive patients showed significant improvements between pre- and postintervention scores for depression symptoms.²⁰ Another study on perinatal behavioral health disorders demonstrated that telephone-based screening and referrals may improve rates of screening, identification, and treatment attendance.²¹ A significant number of pregnant people with opioid use disorder who received treatment through telehealth received continuous care throughout their pregnancy.²² These findings affirm the pivotal role telehealth has played in advancing maternal behavioral health care.

Quality of Care in Telehealth for Maternal Health

Studies investigating the quality of maternal health services delivered via telehealth support its potential. Remote patient monitoring for postpartum hypertension was associated with reduced hospital readmissions compared to standard care.²³ Current research has found that telehealth services had high patient satisfaction, including for behavioral health screening and referral.²⁴ Another study showed that telehealth was particularly effective in rural settings, improving prenatal care access and reducing health disparities.²⁵ Moreover, feedback from providers highlights the potential of telehealth for provider-toprovider consultations.²⁶ These studies suggest that telehealth is a viable alternative to traditional care models, offering quality maternal health services that are accessible and adaptable to patient needs.

Resources

- ¹ Acharya, M., Ali, M.M., Hayes, C.J., et. al. Trends in Telehealth Visits During Pregnancy, 2018 to 2021. JAMA Network Open. 2023 Apr;6(4): e236630. doi:10.1001/jamanetworkopen.2023.6630
- ² Chuo, J., Makkar, A., Machut, K., et. al. Telemedicine Across the Continuum of Neonatal-Perinatal Care. Seminars In Fetal & Neonatal Medicine. 2022 Oct; 27(5): 101398. doi: 10.1016/j.siny.2022.101398
- ³ Substance Abuse and Mental Health Services Administration (SAMHSA). Telehealth for the Treatment of Serious Mental Illness and Substance Use Disorders. SAMHSA Publication No. PEP21-06-02-001 Rockville, MD: National Mental Health and Substance Use Policy Laboratory. Substance Abuse and Mental Health Services Administration, 2021.

- ⁵ Steele, D.W., Adam, G.P., Saldanha, I.J., Kanaan, G., Zahradnik, M.L, et. al. Management of Postpartum Hypertensive Disorders of Pregnancy. Comparative Effectiveness Review No. 263. (Prepared by the Brown Evidence-based Practice Center under Contract No. 75Q80120D00001.) AHRQ Publication No. 23-EHC012. PCORI Publication No. 2023-SR-02. Rockville, MD: Agency for Healthcare Research and Quality; May 2023. DOI: https://doi.org/10.23970/AHRQEPCCER263.
- ⁶ Hoppe,, K.K., et al. Telehealth With Remote Blood Pressure Monitoring Compared With Standard Care For Postpartum Hypertension. American Journal Of Obstetrics And Gynecology vol. 223,4 (2020): 585-588. doi:10.1016/j.ajog.2020.05.027
- ⁷ Hauspurg, A., et. al. A Postpartum Remote Hypertension Monitoring Protocol Implemented at the Hospital Level. Obstetrics and Gynecology vol. 134,4 (2019): 685-691. doi:10.1097/AOG.000000000003479
- ⁸ Aijaz, M., Bozkurt, B., Planey, A.M., et. al. The Evolution Of Health System Planning And Implementation Of Maternal Telehealth Services During The COVID-19 Pandemic. Digital Health. 2024;10. doi:10.1177/20552076241259858
- ⁹ Acharya, M., Ali, M.M., Hayes, C.J., et. al. Trends in Telehealth Visits During Pregnancy, 2018 to 2021. JAMA Network Open. 2023 Apr;6(4): e236630. doi:10.1001/jamanetworkopen.2023.6630

¹⁰ Ibid.

- 11 Ibid.
- ¹² Hauspurg, A., et. al. A Postpartum Remote Hypertension Monitoring Protocol Implemented at the Hospital Level. Obstetrics and Gynecology vol. 134,4 (2019): 685-691. doi:10.1097/AOG.00000000003479
- ¹³ Hoppe,, K.K., et al. Telehealth With Remote Blood Pressure Monitoring Compared With Standard Care For Postpartum Hypertension. American Journal Of Obstetrics And Gynecology vol. 223,4 (2020): 585-588. doi:10.1016/j.ajog.2020.05.027
- ¹⁴ Anderson, K., Coskun, R., Jimenez, P., Omurtag, K. Satisfaction with New Patient Telehealth Visits for Reproductive Endocrinology Patients in the Era Of COVID-19. Journal Of Assisted Reproduction and Genetic. 2022;39(7): 1571-1576. doi:10.1007/s10815-022-02539-4
- ¹⁵ Kissler, D., et, al. Perinatal Telehealth: Meeting Patients Where They Are. Journal Of Midwifery & Women's Health vol. 69,1 (2024): 9-16. doi:10.1111/jmwh.13560
- ¹⁶ Balk, E.M., Konnyu, K.J., Cao, W., et. al.. Schedule of Visits and Televisits for Routine Antenatal Care: A Systematic Review. Comparative Effectiveness Review No. 257. (Prepared by the Brown Evidence-based Practice Center under Contract No. 75Q80120D00001.) AHRQ Publication No. 22-EHC031. Rockville, MD: Agency for Healthcare Research and Quality; June 2022. DOI: ii https://www.doi.org/10.23970/AHRQEPCCER257
- ¹⁷ Moreland, A., Guille, C., McCauley, J.L. Increased Availability of Telehealth Mental Health and Substance Abuse Treatment for Peripartum and Postpartum Women: A Unique Opportunity to Increase Telehealth Treatment. Journal Of Substance Abuse Treatment. 2021 Apr;123: 108268. doi: 10.1016/j.jsat.2020.108268.
- ¹⁸ Guille, C., et. al. A Pilot Study Examining Access to and Satisfaction with Maternal Mental Health and Substance Use Disorder Treatment via Telemedicine.
- Telemedicine reports vol. 3,1 24-29. 11 Jan. 2022, doi:10.1089/tmr.2021.0041
- ¹⁹ Moreland, A., Guille, C., McCauley, J.L. Increased Availability of Telehealth Mental Health and Substance Abuse Treatment for Peripartum and Postpartum Women: A Unique Opportunity to Increase Telehealth Treatment. Journal Of Substance Abuse Treatment. 2021 Apr;123: 108268. doi: 10.1016/j.jsat.2020.108268.
- ²⁰ Kubo, A., et. al. mHealth Mindfulness Intervention for Women with Moderate-to-Moderately-Severe Antenatal Depressive Symptoms: a Pilot Study Within an Integrated Health Care System. Mindfulness vol. 12,6 (2021): 1387-1397. doi:10.1007/s12671-021-01606-8
- ²¹ Guille, C., et. al. Text And Telephone Screening and Referral Improved Detection and Treatment of Maternal Mental Health Conditions. Health Affairs. Apr. 2024, doi: 10.1377/hlthaff.2023.01432.
- ²² Coffey, J.M. et al. Telehealth Treatment for Opioid Use Disorder During Pregnancy. JAMA network open vol. 7,3 e242463. 4 Mar. 2024, doi:10.1001/jamanetworkopen.2024.2463
- ²³ Hoppe, K.K., et al. Telehealth With Remote Blood Pressure Monitoring Compared With Standard Care For Postpartum Hypertension. American Journal Of Obstetrics And Gynecology vol. 223,4 (2020): 585-588. doi:10.1016/j.ajog.2020.05.027
- ²⁴ Witcraft, S.M., et. al. Listening to Black Pregnant and Postpartum People: Using Technology to Enhance Equity in Screening and Treatment of Perinatal Mental Health and Substance Use Disorders. Journal Of Racial And Ethnic Health Disparities, 10.1007/s40615-024-01989-z. 11 Apr. 2024, doi:10.1007/s40615-024-01989-
- ²⁵ Saeed, S.A., Jones, K., Sacks, A.J., Craven, K. Maternal Outreach Through Telehealth for Rural Sites: The MOTHERS Project. North Carolina Medical Journal. 2023; 84(1). DOI:10.18043/001c.67809
- ²⁶ Aijaz, M., Bozkurt, B., Planey, A.M., et. al. The Evolution Of Health System Planning And Implementation Of Maternal Telehealth Services During The COVID-19 Pandemic. Digital Health. 2024;10. doi:10.1177/20552076241259858



⁴ Ibid.