

## DAFTAR PUSTAKA

- [1] M. C. E. Sukartiningsih, “Hubungan Pengetahuan Ibu Hamil Tentang Tanda Bahaya Kehamilan Dengan Keteraturan Melaksanakan Antenatal Care di Puskesmas Pembantudauh Puri Denpasar Tahun 2014,” *J. Kebidanan/Midwifery Med. J.*, vol. 1, no. 1, pp. 99–117, 2020, [Online]. Available: <https://jurnal.poltekeskupang.ac.id/index.php/mmj/article/download/10/10/40>
- [2] H. Nabila and I. , Tri Kesumadewi, “Penerapan Pendidikan Kesehatan Tentang Tanda Bahaya Kehamilan Untuk Meningkatkan Pengetahuan Ibu Hamil Di Wilayah Kerja Uptd Puskesmas Purwosari Kec. Metro Utara Tahun 2021,” *J. Cendikia Muda*, vol. 2, no. juni, p. 203, 2022.
- [3] L. Semeia, I. Bauer, K. Sippel, J. Hartkopf, N. K. Schaal, and H. Preissl, “Comprehensive Psychoneuroendocrinology Impact of maternal emotional state during pregnancy on fetal heart rate variability,” *Compr. Psychoneuroendocrinology*, vol. 14, no. February, p. 100181, 2023, doi: 10.1016/j.cpneec.2023.100181.
- [4] J. T. Parer and E. G. Livingston, “What is fetal distress?,” *Am. J. Obstet. Gynecol.*, vol. 162, no. 6, pp. 1421–1427, Jun. 1990, doi: 10.1016/0002-9378(90)90901-I.
- [5] İ. M. Gönenç and N. Yılmaz Sezer, “Evaluation of the effectiveness of four different training techniques in the development of non-stress testing

- application skills: A randomised controlled trial,” *Nurse Educ. Today*, vol. 76, no. 5, pp. 118–124, 2019, doi: 10.1016/j.nedt.2019.01.030.
- [6] J. A. L. Marques *et al.*, “IoT-Based Smart Health System for Ambulatory Maternal and Fetal Monitoring,” *IEEE Internet Things J.*, vol. 8, no. 23, pp. 16814–16824, 2021, doi: 10.1109/JIOT.2020.3037759.
- [7] X. Dong, S. Chen, G. Xing, Z. Peng, W. Zhang, and G. Meng, “Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique,” *IEEE Sens. J.*, vol. 18, no. 9, pp. 3734–3744, 2018, doi: 10.1109/JSEN.2018.2812848.
- [8] M. C. Jettestad, H. A. Schiøtz, B. M. Yli, and J. Kessler, “Fetal monitoring in term breech labor – A review,” *Eur. J. Obstet. Gynecol. Reprod. Biol.*, vol. 239, pp. 45–51, 2019, doi: 10.1016/j.ejogrb.2019.05.009.
- [9] R. J. Knupp, W. W. Andrews, and A. T. N. Tita, “The future of electronic fetal monitoring,” *Best Pract. Res. Clin. Obstet. Gynaecol.*, vol. 67, no. April, pp. 44–52, 2020, doi: 10.1016/j.bpobgyn.2020.02.004.
- [10] S. Padhy, T. Patel, R. Debata, P. Dey, and A. Bose, “Methods for Measuring Projectile In-Bore Profile using Ka band Doppler radar and Piezoelectric Transducers,” *1st Int. Conf. Range Technol. ICORT 2019*, pp. 0–4, 2019, doi: 10.1109/ICORT46471.2019.9069603.

- [11] K. Nguyen *et al.*, “Wearable Fetal Monitoring Solution for Improved Mobility during Labor Delivery,” *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, vol. 2018-July, pp. 4397–4400, 2018, doi: 10.1109/EMBC.2018.8513321.
- [12] P. Hamelmann *et al.*, “Doppler Ultrasound Technology for Fetal Heart Rate Monitoring: A Review,” *IEEE Trans. Ultrason. Ferroelectr. Freq. Control*, vol. 67, no. 2, pp. 226–238, 2020, doi: 10.1109/TUFFC.2019.2943626.
- [13] M. Dai *et al.*, “A Novel Ultrasonic Doppler Fetal Heart Rate Detection System Using Windowed Digital Demodulation,” *IEEE Access*, vol. 9, pp. 79326–79342, 2021, doi: 10.1109/ACCESS.2021.3083476.
- [14] H. Yang *et al.*, “A flexible wearable wireless fetal ECG monitoring system,” *Zhongguo Kexue Jishu Kexue/Scientia Sin. Technol.*, vol. 52, no. 12, pp. 1912–1922, 2022, doi: 10.1360/SST-2021-0237.
- [15] E. N. E. Marieb and K. Hoehn, *Human Anatomy & Physiology, Ninth Edition*, vol. 7, no. i. 2006.
- [16] J. C. P. Ferreira *et al.*, “The evolution of fetal presentation during pregnancy: A retrospective, descriptive cross-sectional study,” *Acta Obstet. Gynecol. Scand.*, vol. 94, no. 6, pp. 660–663, 2015, doi: 10.1111/aogs.12626.
- [17] D. N. White, G. R. Curry, and R. J. Stevenson, “The acoustic characteristics of the skull,” *Ultrasound Med. Biol.*, vol. 4, no. 3, 1978, doi: 10.1016/0301-

5629(78)90054-6.

- [18] C. S. Kleinman, J. C. Huhta, and N. H. Silverman, "Doppler echocardiography in the human fetus," *J. Am. Soc. Echocardiogr.*, vol. 1, no. 4, pp. 287–290, 1988, doi: 10.1016/S0894-7317(88)80048-8.
- [19] N. Chabibah and E. N. Laela, "Perbedaan Frekuensi Denyut Jantung Janin Berdasarkan Paritas Dan Usia Kehamilan," *Siklus J. Res. Midwifery Politek. Tegal*, vol. 6, no. 1, pp. 195–198, 2017, doi: 10.30591/siklus.v6i1.471.
- [20] R. C. Goodlin, "History of fetal monitoring," *Am. J. Obstet. Gynecol.*, vol. 133, no. 3, pp. 323–352, 1979, doi: 10.1016/0002-9378(79)90688-4.
- [21] L. D. Bainuan, "Sensitivitas , Spesifisitas , dan Akurasi Pengukuran Kontraksi Uterus Kala I Fase Aktif Ibu Bersalin Menggunakan Tokodinamometer Sensitivity , Specificity and Accuracy Measurement of Kala I Uterus Contraction Maternity Active Maternal Phase using Tocodyna," *Maj. Kedokt. Bandung*, vol. 50, no. 110, pp. 36–42, 2018.
- [22] A. Sbröllini *et al.*, "CTG Analyzer: A graphical user interface for cardiotocography," *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, vol. 1, pp. 2606–2609, 2017, doi: 10.1109/EMBC.2017.8037391.
- [23] R. Martinek *et al.*, "Passive Fetal Monitoring by Advanced Signal Processing Methods in Fetal Phonocardiography," *IEEE Access*, vol. 8, 2020,

doi: 10.1109/ACCESS.2020.3043496.

- [24] N. Raghuraman, M. J. Stout, G. A. Macones, A. G. Cahill, and M. G. Tuuli, “819: Do electronic fetal monitoring patterns reflect fetal hypoxemia?,” *Am. J. Obstet. Gynecol.*, vol. 216, no. 1, p. S470, 2017, doi: 10.1016/j.ajog.2016.11.728.
- [25] I. S. Faradisa, T. A. Sardjono, and M. H. Purnomo, “Teknologi Pemantauan Kesejahteraan Janin,” *Semin. Nas. Inov. Dan Apl. Teknol. Di Ind. 2017*, pp. 1–6, 2017.
- [26] D. Almanda, E. Dermawan, E. Diniardi, Syawaluddin, and A. I. Ramadhan, “Pengujian Desain Model Piezoelektrik PvdF Berdasarkan Variasi Tekanan,” *Semin. Nas. Sains dan Teknol. 2016*, no. November 2016, pp. 1–6, 2016, [Online]. Available: <https://media.neliti.com/media/publications/172417-ID-pengujian-desain-model-piezoelektrik-pvd.pdf>
- [27] C. Bouyam and Y. Punsawad, “Human–machine interface-based wheelchair control using piezoelectric sensors based on face and tongue movements,” *Heliyon*, vol. 8, no. 11, p. e11679, Nov. 2022, doi: 10.1016/j.heliyon.2022.e11679.
- [28] J. Joseph, S. G. Singh, and S. R. K. Vanjari, “Piezoelectric Micromachined Ultrasonic Transducer Using Silk Piezoelectric Thin Film,” *IEEE Electron Device Lett.*, vol. 39, no. 5, pp. 749–752, 2018, doi: 10.1109/LED.2018.2816646.

- [29] M. Load and C. Czl, "Datasheet 3134 - Micro Load Cell (0-20kg) - CZL635," pp. 1–4, 2011.
- [30] A. C. Bento, "An Experimental Survey with NodeMCU12e+Shield with Tft Nextion and MAX30102 Sensor," *11th Annu. IEEE Inf. Technol. Electron. Mob. Commun. Conf. IEMCON 2020*, pp. 82–86, 2020, doi: 10.1109/IEMCON51383.2020.9284870.
- [31] T. T. Ngo, C. C. Wang, H. H. Wu, and V. T. Than, "Improving temperature uniformity of glass panels in TFT-LCD oven based on perforated plates," *Therm. Sci. Eng. Prog.*, vol. 19, p. 100592, 2020, doi: 10.1016/j.tsep.2020.100592.
- [32] J. Liu, C. Li, H. Peng, Q. Zeng, and A. Lu, "Preparation and characterization of alkali-free glass substrates with enhanced properties for TFT-LCDs applications," *Ceram. Int.*, vol. 47, no. 15, pp. 21650–21659, 2021, doi: 10.1016/j.ceramint.2021.04.178.
- [33] S. C. Hung and Y. C. Hsu, "Managing TFT-LCDs under uncertainty: When crystal cycles meet business cycles," *Technol. Forecast. Soc. Change*, vol. 78, no. 7, pp. 1104–1114, 2011, doi: 10.1016/j.techfore.2011.02.003.
- [34] M. M. Zuhdi, M. J. Afroni, and F. Rahman, "Sistem Monitoring Vital Sign Pada Tubuh Manusia Dengan Metode Deteksi Titik Ekstrim Untuk Mendeteksi Kelainan Ritme Jantung," *Sci. Electro*, pp. 1–7, 2022, [Online]. Available: <http://riset.unisma.ac.id/index.php/jte/article/view/>

17490%0Ahttp://riset.unisma.ac.id/index.php/jte/article/download/17490/13191

- [35] R. Samantha and D. Almalik, “Pengaruh Pijat Perinium terhadap Tingkat Kecemasan Ibu Trimester III di Puskesmas Manyaran,” *J. Ilmu Keperawatan Matern.*, vol. 1, no. 1, pp. 26–30, 2018, [Online]. Available: <http://www.tjyybjb.ac.cn/CN/article/downloadArticleFile.do?attachType=PDF&id=9987>
- [36] V. Selfianan, N. Ulfadamayanti, S. Maani, Nuraini, and S. N. Fadillah, “Pengaruh Stress pada Ibu Hamil,” *J. Educ.*, vol. 05, no. 04, pp. 11702–11706, 2023, [Online]. Available: <https://www.jonedu.org/index.php/joe/article/view/2125/1765>
- [37] W. Renny R and Y. Yuliantanti, “Pengaruh Stres Pada Ibu Hamil Trimester Iii Terhadap Aktivitas Janin Yang Dikandung Di Wilayah Puskesmas Grabag 1 Kabupaten Magelang Stress Effect of Pregnant Women on Trimester Iii Fetus Activities in the Health District Grabag 1 Magelan,” *J. Kebidanan*, vol. XII, no. 02, pp. 146–156, 2020.
- [38] Y. Sun and S. Jiang, “Prenatal Monitoring of Perinatal Pregnant Women and Fetus Based on a Smart Electronic Fetal Monitoring System,” *J. Healthc. Eng.*, vol. 2022, 2022, doi: 10.1155/2022/5073636.
- [39] A. S. Batra and S. Balaji, “Fetal arrhythmias: Diagnosis and management,” *Indian Pacing Electrophysiol. J.*, vol. 19, no. 3, pp. 104–109,

2019, doi: 10.1016/j.ipej.2019.02.007.

- [40] F. Xiao, “Fast design of IIR digital filters with a general chebyshev characteristic,” *IEEE Trans. Circuits Syst. II Express Briefs*, vol. 61, no. 12, pp. 962–966, 2014, doi: 10.1109/TCSII.2014.2362638.
- [41] T. B. Santoso, “Implementasi Filter FIR secara Real Time pada TMS 32C5402,” pp. 1–5, 2012.
- [42] M. R. Makruf, “Perancangan filter digital pada fetal doppler,” vol. 8, no. 1, pp. 705–710, 2013.