

REFERENCES

- Ahmed, N., & Zhu, Y. (2020). Early Detection of Atrial Fibrillation Based on ECG Signals. *Bioengineering*, 7(1), 16. <https://doi.org/10.3390/bioengineering7010016>
- Anatomy Note. (2019). *12 Lead Ecg Placement*[Image]. Retrieved 13 February 2022, from <https://www.anatomynote.com/medical-appliance/12-lead-ecg-placement/>.
- Arrhythmia: Types, Symptoms, Causes, Diagnosis & Treatments*. Cleveland Clinic. (2022). Retrieved 15 July 2022, from <https://my.clevelandclinic.org/health/diseases/16749-arrhythmia>.
- Burnett, J. (1985). The origins of the electrocardiograph as a clinical instrument. *Medical History*, 29(S5), 53-76. <https://doi.org/10.1017/s0025727300070514>
- Christoffels, V., & Moorman, A. (2009). Development of the Cardiac Conduction System. *Circulation: Arrhythmia And Electrophysiology*, 2(2), 195-207. <https://doi.org/10.1161/circep.108.829341>
- Díez-Villanueva, P., & Alfonso, F. (2019). Atrial fibrillation in the elderly. *Journal Of Geriatric Cardiology*, 16(1), 49-53. <https://doi.org/10.11909/j.issn.1671-5411.2019.01.005>
- ECG Leads. (2015). [Image]. Retrieved 16 February 2022, from <https://clinicalgate.com/ecg-leads-2/>.
- ECG Learning Center. *The Standard 12 Lead ECG* [Image]. Retrieved 16 February 2022, from <https://ecg.utah.edu/lesson/1>.
- Einthoven, W. (1895). Ueber die Form des menschlichen Electrocardiogramms. *Pflüger, Archiv Für Die Gesammte Physiologie Des Menschen Und Der Thiere*, 60(3-4), 101-123. <https://doi.org/10.1007/bf01662582>
- Einthoven, W., Fahr, G., & de Waart, A. (1950). On the direction and manifest size of the variations of potential in the human heart and on the influence of the position of the heart on the form of the electrocardiogram. *American Heart Journal*, 40(2), 163-211. [https://doi.org/10.1016/0002-8703\(50\)90165-7](https://doi.org/10.1016/0002-8703(50)90165-7)
- Goldberger, E. (1942). A simple, indifferent, electrocardiographic electrode of zero potential and a technique of obtaining augmented, unipolar, extremity leads. *American Heart Journal*, 23(4), 483-492. [https://doi.org/10.1016/s0002-8703\(42\)90293-x](https://doi.org/10.1016/s0002-8703(42)90293-x)
- Klabunde, R. (2016). *CV Physiology / Electrocardiogram Chest Leads (Unipolar)*. Cvphysiology.com. Retrieved 13 February 2022, from <https://www.cvphysiology.com/Arrhythmias/A013c>.
- Klabunde, R. (2017). *CV Physiology / Electrocardiogram Standard Limb Leads (Bipolar)*. Cvphysiology.com. Retrieved 13 February 2022, from <https://www.cvphysiology.com/Arrhythmias/A013a>.
- Levine, S. (1930). Coronary Thrombosis: Its Various Clinical Features. *JAMA: The Journal Of The American Medical Association*, 94(7), 508. <https://doi.org/10.1001/jama.1930.02710330062035>
- Lewis, T. (1909). REPORT CXIX. AURICULAR FIBRILLATION: A COMMON CLINICAL CONDITION. *BMJ*, 2(2552), 1528-1528. <https://doi.org/10.1136/bmj.2.2552.1528>
- Lippi, G., Sanchis-Gomar, F., & Cervellin, G. (2020). Global epidemiology of atrial fibrillation: An increasing epidemic and public health challenge. *International Journal Of Stroke*, 16(2), 217-221. <https://doi.org/10.1177/1747493019897870>
- Madona, P., Basti, R., & Zain, M. (2021). PQRST wave detection on ECG signals. *Gaceta Sanitaria*, 35, S364-S369. <https://doi.org/10.1016/j.gaceta.2021.10.052>
- Makowski, D., Pham, T., Lau, Z., Brammer, J., Lespinasse, F., & Pham, H. et al. (2021). NeuroKit2: A

- Python toolbox for neurophysiological signal processing. *Behavior Research Methods*, 53(4), 1689-1696. <https://doi.org/10.3758/s13428-020-01516-y>
- Pourafkari, L., Baghbani-Oskouei, A., Aslanabadi, N., Tajlil, A., Ghaffari, S., & Sadigh, A. et al. (2018). Fine versus coarse atrial fibrillation in rheumatic mitral stenosis: The impact of aging and the clinical significance. *Annals Of Noninvasive Electrocardiology*, 23(4), e12540. <https://doi.org/10.1111/anec.12540>
- Rodgers, J., Jones, J., Bolleddu, S., Vanthenapalli, S., Rodgers, L., & Shah, K. et al. (2019). Cardiovascular Risks Associated with Gender and Aging. *Journal Of Cardiovascular Development And Disease*, 6(2), 19. <https://doi.org/10.3390/jcdd6020019>
- Sattar, Y., & Chhabra, L. (2021). *Electrocardiogram*. Ncbi.nlm.nih.gov. Retrieved 25 January 2022, from <https://www.ncbi.nlm.nih.gov/books/NBK549803/>.
- Symbols used in plots*. archive.physionet. Retrieved 18 July 2022, from <https://archive.physionet.org/physiobank/database/html/mitdbdir/intro.htm#symbols>.
- Table of beat types (entire records)*. archive.physionet. Retrieved 18 July 2022, from <https://archive.physionet.org/physiobank/database/html/mitdbdir/tables.htm#allbeats>.
- Table of rhythms (entire records)*. archive.physionet. Retrieved 18 July 2022, from <https://archive.physionet.org/physiobank/database/html/mitdbdir/tables.htm#allrhythms>.
- TechPE. *Heartbeat & Cardiac Conduction System [Image]*. Retrieved 16 February 2022, from <https://www.teachpe.com/anatomy-physiology/the-heart-conduction-system>.
- Understanding the Normal ECG*. Clinical Gate. (2015). Retrieved 16 February 2022, from <https://clinicalgate.com/understanding-the-normal-ecg-2/>.
- Virtanen, P., Gommers, R., Oliphant, T., Haberland, M., Reddy, T., & Cournapeau, D. et al. (2020). Author Correction: SciPy 1.0: fundamental algorithms for scientific computing in Python. *Nature Methods*, 17(3), 352-352. <https://doi.org/10.1038/s41592-020-0772-5>
- Waller, A. (1887). A Demonstration on Man of Electromotive Changes accompanying the Heart's Beat. *The Journal Of Physiology*, 8(5), 229-234. <https://doi.org/10.1113/jphysiol.1887.sp000257>
- Wilson, F., Johnston, F., Macleod, A., & Barker, P. (1934). Electrocardiograms that represent the potential variations of a single electrode. *American Heart Journal*, 9(4), 447-458. [https://doi.org/10.1016/s0002-8703\(34\)](https://doi.org/10.1016/s0002-8703(34))