

Bibliography

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1. Khurshid, S., Friedman, S., Reeder, C., Di Achille, P., Diamant, N., Singh, P., Harrington, L. X., Wang, X., Al-Alusi, M. A., Sarma, G., Foulkes, A. S., Ellinor, P. T., Anderson, C. D., Ho, J. E., Philippakis, A. A., Batra, P., & Lubitz, S. A. (2021). ECG-based deep learning and clinical risk factors to predict atrial fibrillation. *Circulation*, 145.
2. Ullah, A., Rehman, S. u., Tu, S., Mehmood, R. M., Fawad, & Ehatisham-ul-haq, M. (2021). A hybrid deep CNN model for abnormal arrhythmia detection based on cardiac ECG signal. *Sensors*, 21, 951.
3. Galloway, F., Valys, A., Shreibati, J. B., Petterson, A., et al. (2019). Using ECG-based DLM for Hyperkalemia Detection. *JAMA Cardiology*.
4. Vaid, A., Johnson, K. W., Badgeley, M. A., Somani, S. S., Bicak, M., Landi, I., Russak, A., Zhao, S., Levin, M. A., Freeman, R. S., Charney, A. W., Kukar, A., Kim, B., Danilov, T., Lerakis, S., Argulian, E., Narula, J., Nadkarni, G. N., & Glicksberg, B. S. (2022). Using deep-learning algorithms to simultaneously identify right and left ventricular dysfunction from the electrocardiogram. *JACC Cardiovascular Imaging*, 15, 395–410.
5. Liu, J., Zhang, Z., & Razavian, N. (2018). Deep EHR: Chronic disease prediction using medical notes. *Proceedings of the 3rd Machine Learning for Healthcare Conference, Proceedings of Machine Learning Research*, 85, 440–464.
6. Hughes, J. W., Tooley, J., Torres Soto, J., et al. (2023). A deep learning-based electrocardiogram risk score for long term cardiovascular death and disease. *npj Digit. Med.* 6, 169.
7. Ansari, Y., Mourad, O., Qaraqe, K., & Serpedin, E. (2023). Deep learning for ECG Arrhythmia detection and classification: an overview of progress for period 2017–2023. *Front Physiol*, 14, 1246746.
8. García-Ordás, M. T., Bayón-Gutiérrez, M., Benavides, C., et al. (2023).

Heart disease risk prediction using deep learning techniques with feature augmentation. *Multimed Tools Appl*, 82, 31759–31773.

9. Gustafsson, S., Gedon, D., Lampa, E., et al. (2022). Development and validation of deep learning ECG-based prediction of myocardial infarction in emergency department patients. *Sci Rep*, 12, 19615.

10. Houssein, E. H., Mohamed, R. E., & Ali, A. A. (2023). Heart disease risk factors detection from electronic health records using advanced NLP and deep learning techniques. *Sci Rep*, 13, 7173.

11. Ashburner, J. M., Chang, Y., Wang, X., Khurshid, S., Anderson, C. D., Dahal, K., Weisenfeld, D., Cai, T., Liao, K. P., Waghlikar, K. B., Murphy, S. N., Atlas, S. J., Lubitz, S. A., & Singer, D. E. (2022). Natural language processing to improve prediction of incident atrial fibrillation using electronic health records. *Journal of the American Heart Association*, 11.

12. Khurshid, S., Reeder, C., Harrington, L. X., Singh, P., Sarma, G., Friedman, S. F., Di Achille, P., Diamant, N., Cunningham, J. W., Turner, A. C., Lau, E. S., Haimovich, J. S., Al-Alusi, M. A., Wang, X., Klarqvist, M. D. R., Ashburner, J. M., Diedrich, C., Ghadessi, M., Mielke, J., & Lubitz, S. A. (2022). Cohort design and natural language processing to reduce bias in electronic health records research. *Npj Digital Medicine*, 5.

13. Cui, H., Shen, Z., Zhang, J., Shao, H., Qin, L., Ho, J. C., & Yang, C. (2024). LLMs-based Few-Shot Disease Predictions using EHR: A Novel Approach Combining Predictive Agent Reasoning and Critical Agent Instruction. *arXiv*.

14. Chen, C., Li, L., Beetz, M., Banerjee, A., Gupta, R., & Grau, V. (2024). Large Language Model-informed ECG Dual Attention Network for Heart Failure Risk Prediction. *arXiv*.

15. Yu, H., Guo, P., & Sano, A. (2024). ECG Semantic Integrator (ESI): A Foundation ECG Model PreTrained with LLM-Enhanced Cardiological Text. *arXiv*.

16. Ambrosy, A. P., Parikh, R. V., Sung, S. H., Narayanan, A., Masson, R., Lam, P., Kheder, K., Iwahashi, A., Hardwick, A. B., Fitzpatrick, J. K., Avula, H. R., Selby, V. N., Shen, X., Sanghera, N., Cristino, J., & Go, A. S. (2021). A Natural Language Processin-Based approach for identifying hospitalizations for worsening heart failure within an integrated health care delivery system. *JAMA Network Open*, 4, e2135152.

17. Nagamine, T., Gillette, B., Kahoun, J., Burghaus, R., Lippert, J., & Saxena, M. (2022). Data-driven identification of heart failure disease states and progression pathways using electronic health records. *Scientific Reports*, 12.
18. Pachiyannan, P., Alsulami, M., Alsadie, D., Saudagar, A. K. J., AlKhathami, M., & Poonia, R. C. (2024). A novel Machine Learning-Based prediction method for early detection and diagnosis of congenital heart disease using ECG signal processing. *Technologies*, 12, 4.
19. Sattar, S., Mumtaz, R., Qadir, M., Mumtaz, S., Khan, M. A., De Waele, T., De Poorter, E., Moerman, I., & Shahid, A. (2024). Cardiac arrhythmia classification using advanced deep learning techniques on digitized ECG datasets. *Sensors*, 24, 2484.
20. Daydulo, Y. D., Thamineni, B. L., & Dawud, A. A. (2023). Cardiac arrhythmia detection using deep learning approach and time frequency representation of ECG signals. *BMC Medical Informatics and Decision Making*, 23.