Resource Summary Report

Generated by ASWG on Aug 2, 2026

PhysioNet

RRID:SCR_007345
Type: Tool

Proper Citation

PhysioNet (RRID:SCR_007345)

Resource Information

URL: http://www.physionet.org/

Proper Citation: PhysioNet (RRID:SCR_007345)

Description: Collection of dissemination and exchange recorded biomedical signals and open-source software for analyzing them. Provides facilities for cooperative analysis of data and evaluation of proposed new algorithm. Providies free electronic access to PhysioBank data and PhysioToolkit software. Offers service and training via on-line tutorials to assist users at entry and more advanced levels. In cooperation with annual Computing in Cardiology conference, PhysioNet hosts series of challenges, in which researchers and students address unsolved problems of clinical or basic scientific interest using data and software provided by PhysioNet. All data included in PhysioBank, and all software included in PhysioToolkit, are carefully reviewed. Researchers are further invited to contribute data and software for review and possible inclusion in PhysioBank and PhysioToolkit. Please review guidelines before submitting material.

Abbreviations: PhysioNet

Synonyms: Physionet: The Research Resource for Complex Physiologic Signals, PhysioNet, PhysioNet: The Research Resource for Complex Physiologic Signals

Resource Type: data analysis service, data or information resource, data repository, storage service resource, database, service resource, production service resource, analysis service resource

Defining Citation: PMID:22256277, PMID:14716615, PMID:14632011, PMID:11446213, PMID:10851218

Keywords: physiologic, physiology, signal, software, research, biomedical, cardiopulmonary, neural, healthy, patient, cardiac, death, congestive heart failure, epilepsy, gait, disorder, sleep apnea, cardioogy, computation, physiologic signal, workspace, time series, FASEB list, DRKB

Related Condition: Aging

Funding: NIBIB ;
NIGMS ;
NIH EB037545

Availability: Free, Freely available

Resource Name: PhysioNet

Resource ID: SCR_007345

Alternate IDs: r3d100011561, nif-0000-00250, DOI:10.17616/R3D06S, DOI:10.25504/FAIRsharing.bemzxg, DOI:10.13026

Alternate URLs: https://doi.org/10.17616/R3D06S, https://doi.org/10.17616/r3d06s, https://doi.org/10.13026/, https://dx.doi.org/10.13026/, https://fairsharing.org/10.25504/FAIRsharing.bemzxg, https://doi.org/10.17616/R3D06S

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260801T190729+0000

Ratings and Alerts

No rating or validation information has been found for PhysioNet.

No alerts have been found for PhysioNet.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 618 mentions in open access literature.

Listed below are recent publications. The full list is available at ASWG .

Chen K, et al. (2026) Correlation between statin use and 30??day mortality in patients with acute kidney injury after intracerebral hemorrhage: a retrospective analysis. Scientific reports.

Castro LT, et al. (2026) Benchmarking variability in semantic segmentation in minimally invasive abdominal surgery. International journal of computer assisted radiology and surgery.

Khan FK, et al. (2026) Leveraging Large-Scale Public Data for Artificial Intelligence-Driven Chest X-Ray Analysis and Diagnosis. Diagnostics (Basel, Switzerland), 16(1).

Ono S, et al. (2026) Preoperative risk prediction of major cardiovascular events in noncardiac surgery using the 12-lead electrocardiogram: limitations in database-derived risk prediction. Comment on Br J Anaesth; 2025; 135: 1161-71. British journal of anaesthesia, 136(1), 460.

Hasnaoui LH, et al. (2026) Unlocking Insights from Postictal EEGs: Investigating Predictive Markers of Seizure Recurrence. Annals of biomedical engineering.

Rudolph J, et al. (2025) Threshold optimization in AI chest radiography analysis: integrating real-world data and clinical subgroups. European radiology experimental, 9(1), 95.

Ding XY, et al. (2025) Development and validation of the Hypotensive Exposure Duration Index for mortality risk prediction in critically ill patients. Journal of intensive care, 13(1), 65.

Ruiz Mejia JM, et al. (2025) MedScrubCrew: A Medical Multi-Agent Framework for Automating Appointment Scheduling Based on Patient-Provider Profile Resource Matching. Healthcare (Basel, Switzerland), 13(14).

Wang B, et al. (2025) Association between sleep disorder and delirium in adult patients undergoing cardiac surgery: a retrospective cohort study. BMC anesthesiology, 25(1), 372.

Zhou J, et al. (2025) Independent and combined effects of mean blood glucose and glycemic variability on 28-day mortality in older acute myocardial infarction patients: a MIMIC-IV cohort study. BMC geriatrics, 26(1), 51.

Zhu A, et al. (2025) Prevalence and clinical correlates of chronic obstructive pulmonary disease in heart failure patients: a cross-sectional study in China. Frontiers in medicine, 12, 1477388.

Shah A, et al. (2025) Electrocardiogram analysis for cardiac arrhythmia classification and prediction through self attention based auto encoder. Scientific reports, 15(1), 9230.

Antonoudiou P, et al. (2025) SeizyML: An Application for Semi-Automated Seizure Detection Using Interpretable Machine Learning Models. Neuroinformatics, 23(2), 23.

Porschen C, et al. (2025) pyAKI-An open source solution to automated acute kidney injury classification. PloS one, 20(1), e0315325.

Zhao S, et al. (2025) The association between albumin corrected calcium levels and mortality in ICU patients undergoing maintenance hemodialysis. Scientific reports, 15(1), 12086.

Xia Y, et al. (2025) Risk analysis of the association between EASIX and all-cause mortality in critical ill patients with atrial fibrillation: a retrospective study from MIMIC-IV database. European journal of medical research, 30(1), 344.

Gaber F, et al. (2025) Evaluating large language model workflows in clinical decision support for triage and referral and diagnosis. NPJ digital medicine, 8(1), 263.

Xiong Y, et al. (2025) Application of a Nomogram Model in Predicting Postoperative Delirium Following Percutaneous Coronary Intervention. Bioengineering (Basel, Switzerland), 12(6).

Li Y, et al. (2025) Machine Learning for the Prediction of Acute Kidney Injury in Critically Ill Patients With Coronary Heart Disease: Algorithm Development and Validation. JMIR medical informatics, 13, e72349.

Theodorou B, et al. (2025) MediSim: Multi-granular simulation for enriching longitudinal, multi-modal electronic health records. Patterns (New York, N.Y.), 6(6), 101261.