

Resource Summary Report

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PhysioNet

RRID:SCR_007345

Type: Tool

Proper Citation

PhysioNet (RRID:SCR_007345)

Resource Information

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

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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. Provides 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.bemzxc, 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.bemzxc>, <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 [kravitz2](#) .

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.
- 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.
- 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).
- 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.
- 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.
- Li H, et al. (2025) Association between triglyceride-glucose index and 6-month readmission in patients with heart failure: a cohort study. *Frontiers in cardiovascular medicine*, 12, 1547755.
- 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.
- Antonoudiou P, et al. (2025) SeizyML: An Application for Semi-Automated Seizure Detection Using Interpretable Machine Learning Models. *Neuroinformatics*, 23(2), 23.
- Shah A, et al. (2025) Electrocardiogram analysis for cardiac arrhythmia classification and prediction through self attention based auto encoder. *Scientific reports*, 15(1), 9230.
- 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.
- Ge X, et al. (2025) Prediction of Moderate-to-Severe Sepsis-Associated Acute Kidney Injury Using a Dual-Timepoint Machine Learning Model: Development, Multiregional

Validation, and Clinical Deployment Study. Journal of medical Internet research, 27, e73840.

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.

Hughes C, et al. (2025) Pulse oximeter performance and skin pigment: comparison of 34 oximeters using current and emerging regulatory frameworks. medRxiv : the preprint server for health sciences.

van Loon LM, et al. (2025) Challenges in zero-flow blood pressure as a measure of mean circulatory filling pressure: Experimental and computational perspectives. Physiological reports, 13(19), e70599.