

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: analysis service resource, data analysis service, data or information resource, data repository, database, production service resource, service resource, storage 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, DOI:10.17616/R3D06S, nif-0000-00250,
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: 20260821T193814+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 841 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Rao S, et al. (2026) A transformer-based survival model for prediction of all-cause mortality in patients with heart failure: a multi-cohort study. NPJ digital medicine, 9(1), 118.

Wei Z, et al. (2026) Evaluation of oxygenation indices incorporating SpO₂ and PEEP for assessing ARDS severity: Evidence from the MIMIC-IV and eICU collaborative research database v2.0 databases. PloS one, 21(2), e0341004.

Manivannan GS, et al. (2026) An efficient deep CNN based BiLSTM framework with RanA optimization for accurate cardiac arrhythmia detection. Scientific reports, 16(1), 7156.

Duan X, et al. (2026) A Neurophysiological Stratification Framework for Intermediate Motor Imagery-BCI Users Based on Independent Event-Related Brain Dynamics. Brain

sciences, 16(2).

Bergamaschi T, et al. (2026) Forecasting left ventricular systolic dysfunction in heart failure with artificial intelligence. *EClinicalMedicine*, 92, 103783.

Zhang D, et al. (2026) MEETI: A Multimodal ECG Dataset from MIMIC-IV-ECG with Signals, Images, Features and Interpretations. *Scientific data*, 13(1).

Khan JA, et al. (2026) Physiological Characterisation of Severe Heart Failure Using Long-Duration Ambulatory ECG: A Retrospective Exploratory Analysis. *Cureus*, 18(2), e102943.

Ellen J, et al. (2026) Evaluation of SOFA-2 Score Performance Across Demographic Subgroups: An External Validation Study Using MIMIC-IV. *medRxiv : the preprint server for health sciences*.

Wang B, et al. (2026) Association of Initial Laxative Strategy With Clinical Outcomes in Critically Ill Patients With Acute Myocardial Infarction: A Retrospective Cohort Study. *Cardiovascular therapeutics*, 2026(1), e1649836.

Chu J, et al. (2026) Early levothyroxine sodium administration and clinical outcomes in patients with sepsis: a MIMIC-IV database analysis. *Scientific reports*, 16(1).

Qiu X, et al. (2026) Association between albumin-based nutritional inflammation indices and all-cause mortality in patients with severe pneumonia. *BMC infectious diseases*, 26(1).

Avila-Gutierrez L, et al. (2026) Cardiorespiratory coupling tightens with workload during graded exercise: A pilot study with adolescent athletes. *Physiological reports*, 14(8), e70884.

Chen X, et al. (2026) MLP-CKD: a clinically informed deep learning framework for admission laboratory-based screening and risk stratification of uremia-associated advanced renal dysfunction. *Frontiers in public health*, 14, 1858083.

Akhavan N, et al. (2026) A data-driven measure of REM sleep propensity for human and rodent sleep. *Frontiers in neuroscience*, 20, 1844209.

Wei S, et al. (2026) SOFA-2 score predicts mortality in pneumonia-associated sepsis: a retrospective cohort study. *Critical care (London, England)*, 30(1).

Li X, et al. (2026) Impact of the stress hyperglycemia ratio on short-term outcomes in critically ill patients with chronic kidney disease: A comparative analysis of diabetic and non-diabetic populations. *PloS one*, 21(4), e0344961.

Kong D, et al. (2026) Early ICU glycemic trajectory phenotypes predict short- and long-term mortality in critically ill patients: a dual-database cohort study. *Metabolism open*, 30, 100478.

Babli SA, et al. (2026) Evaluating Large Language Models for Automated Data Cleaning and Feature Engineering in Clinical Datasets. *Cureus*, 18(5), e108550.

An S, et al. (2026) Bionic Wearable ECG with Multimodal Large Language Models: Coherent Temporal Modeling for Early Ischemia Warning and Reperfusion Risk

Stratification. Cyborg and bionic systems (Washington, D.C.), 7, 0501.

Zhang L, et al. (2026) The red cell distribution width to albumin ratio (RAR) for predicting prognosis in spontaneous intracerebral hemorrhage: a retrospective cohort study using the MIMIC-IV database. Scientific reports, 16(1).