



# 国际公开数据库资源

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# ▶ 高质量的数据库通常都会发表多篇SCI论文

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- [Physical Activity and Anger or Emotional Upset as Triggers of Acute Myocardial Infarction: The INTERHEART Study.](#)  
Smyth A, O'Donnell M, Lamelas P, Teo K, Rangarajan S, Yusuf S; INTERHEART Investigators..  
Circulation. 2016 Oct 11;134(15):1059-1067.  
PMID: 27753614  
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## ▶ 在方法学部分，写清楚数据来源

### **METHODS**

#### **Study Population**

As previously described, the INTERHEART study was a case-control study of first AMI completed in 262 centers across 52 countries.<sup>2,5</sup> In brief, consecutive cases with first AMI (defined by characteristic symptoms and ischemic ECG changes) were recruited, in addition to at least 1 age- and sex-matched control without a history of heart disease or exertional chest pain. In our primary analyses, we include only the cases of AMI, because the exposure to potential triggers was collected systematically in cases and not in controls.

1. 引用

之前发表的文章

2. 简介

本研究涉及的人群（数据）

公开数据可以直接用，按要求引用就可以。  
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When using this data, please cite the original publication:

Oyama J, Murohara T, Kitakaze M, Ishizu T, Sato Y, Kitagawa K, Kamiya H, Ajioka M, Ishihara M, Dai K, Nanasato M, Sata M, Maemura K, Tomiyama H, Higashi Y, Kaku K, Yamada H, Matsuhisa M, Yamashita K, Bando YK, Kashihara N, Ueda S, Inoue T, Tanaka A, Node K (2016) The Effect of Sitagliptin on Carotid Artery Atherosclerosis in Type 2 Diabetes: The PROLOGUE Randomized Controlled Trial. PLOS Medicine 13(6): e1002051.  
<http://dx.doi.org/10.1371/journal.pmed.1002051>

Additionally, please cite the Dryad data package:

Oyama J, Node K (2016) Data from: The effect of sitagliptin on carotid artery atherosclerosis in Type 2 Diabetes: the PROLOGUE randomized controlled trial. Dryad Digital Repository.  
<http://dx.doi.org/10.5061/dryad.qt743>

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基于二次科研设计，验证不同的研究假设，同一个数据库可以发多篇文章

Author Manuscript



## HHS Public Access

Author manuscript

*JAMA Ophthalmol.* Author manuscript; available in PMC 2016 August 12.

Published in final edited form as:

*JAMA Ophthalmol.* 2016 August 1; 134(8): 863–869. doi:10.1001/jamaophthalmol.2016.1365.

The relationship between occlusion therapy and optotype visual acuity in children using data from the Infant Aphakia Treatment Study: **A secondary analysis** of a randomized clinical trial

## 要点

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



























高质量的数据库通常都会发表多篇SCI论文

- 科研假设不同 (X或Y不同)
- 二次科研设计
- 选取研究人群
- 核心结果和科学贡献不同

# ▶ 美国CDC的NHANES数据库已经发表了上千篇SCI

题录

1 / 1685

影响因子		年份	作者	标题	来源
72.406	 	1987	Schatzkin, A; J...	Alcohol consumption and breast cancer in the epidemiologic follow-up study of the f...	N Engl J Med
47.831	 	1998	Alderman, M ...	Dietary sodium intake and mortality: the National Health and Nutrition Examination S...	Lancet
47.831	 	1987	Schatzkin, A; ...	Serum cholesterol and cancer in the NHANES I epidemiologic followup study. Nation...	Lancet
47.831	 	1998	Poulter, N R	Dietary sodium intake and mortality: NHANES. The Faculty 31st International Society...	Lancet
44.405	 	1998	Niskar, A S; Ki...	Prevalence of hearing loss among children 6 to 19 years of age: the Third National H...	JAMA
44.405	 	1998	Andersen, R E;	<b>Relationship of physical activity and television watching with body weight and le</b>	<b>JAMA</b>
44.405	 	1999	Winkleby, M A.	<b>Ethnic variation in cardiovascular disease risk factors among children and young</b>	<b>JAMA</b>
44.405	 	1994	Brody, D J; Pir...	Blood lead levels in the US population. Phase 1 of the Third National Health and Nut...	JAMA
44.405	 	2002	Ford, E S; Giles...	Prevalence of the metabolic syndrome among US adults: findings from the third Nati...	JAMA
44.405	 	1996	Pirkle, J L; Fleg...	Exposure of the US population to environmental tobacco smoke: the Third National ...	JAMA
44.405	 	1998	Winkleby, M A...	Ethnic and socioeconomic differences in cardiovascular disease risk factors: findings f...	JAMA
44.405	 	1998	Caraballo, R S;	<b>Racial and ethnic differences in serum cotinine levels of cigarette smokers: Third</b>	<b>JAMA</b>
44.405	 	2000	Fang, J; Alder...	<b>Serum uric acid and cardiovascular mortality the NHANES I epidemiologic follo</b>	<b>JAMA</b>
24.008	 	2010	Chang, S L; Ha.	<b>Impact of common medications on serum total prostate-specific antigen levels:</b>	<b>J Clin Oncol</b>
19.896	 	2004	Ford, E S; Giles	<b>The distribution of 10-Year risk for coronary heart disease among US adults: finc</b>	<b>J Am Coll Cardiol</b>
19.896	 	2010	Wu, C K; Lin, J .	<b>Cystatin C and long-term mortality among subjects with normal creatinine-basec</b>	<b>J Am Coll Cardiol</b>
19.896	 	2011	Kuo, H K; Fujis...	Human papillomavirus and cardiovascular disease among U.S. women in the National...	J Am Coll Cardiol
19.309	 	2014	Whitfield, G P;...	Application of the American Heart Association/American College of Sports Medicine ...	Circulation
19.309	 	2015	Doran, B; Guo,...	Reply to Letters Regarding Article, "Prognostic Value of Fasting Versus Nonfasting Lo...	Circulation

<https://wwwn.cdc.gov/Nchs/Nhanes/Search/DataPage.aspx?Component=Examination&CycleBeginYear=2005>

## National Center for Health Statistics

National Health and  
Nutrition Examination  
Survey



## National Health and Nutrition Examination S

About NHANES



What's New



**Questionnaires,  
Datasets, and Related  
Documentation**



Survey Methods and  
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Search Variables

[CDC](#) > [National Health and Nutrition Examination Survey](#)

### Questionnaires, Datasets, and Related Documentation



- [Continuous NHANES Data, Questionnaires and Related Documentation](#)
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  - [NHANES 2015-2016](#)
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Wang G, Zhu Z, Cui S, Wang J (2016) Data from: Glucocorticoid induces incoordination between glutamatergic and GABAergic neurons in the amygdala. *PLOS ONE*  
<http://dx.doi.org/10.5061/dryad.k9q7h>

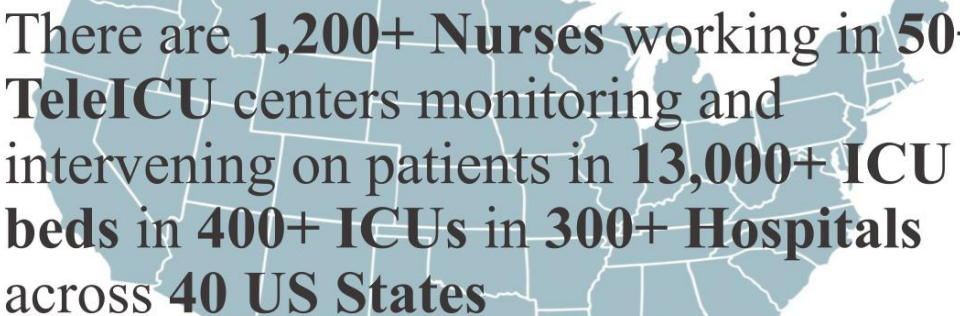
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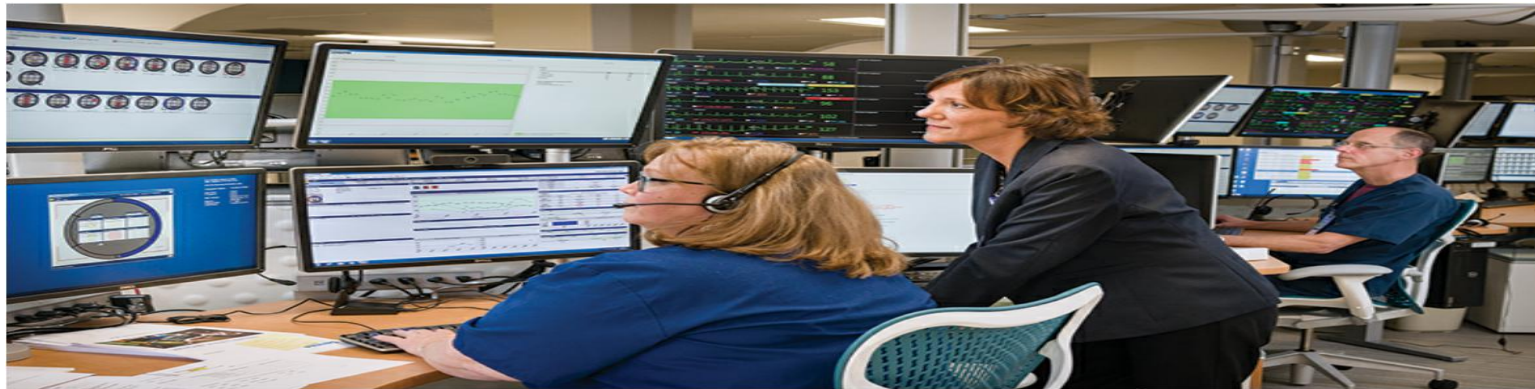
- ❑ eICU数据库是由美国麻省理工学院计算生理学实验室(LCP)与飞利浦eICU研究所合作开发，2018年5月发布，目前更新到2.0版本。
- ❑ 网址：<https://eicu-crd.mit.edu/>

- 包括2014年至2015年间收治的139,367名患者，共计200,859例次入ICU记录。
- 采用分层随机抽样的方式采集全美208家医院的335个病房的患者信息。
- 涉及心内ICU、胸心外科ICU、内科ICU、外科ICU、神经外科ICU等众多ICU数据。



There are **1,200+** Nurses working in **50+** TeleICU centers monitoring and intervening on patients in **13,000+** ICU beds in **400+** ICUs in **300+** Hospitals across **40 US States**

- ❑ MIMIC-III的来源医院不参与eICU计划，因此eICU-CRD是从美国境内的大量医院收集的一组完全独立的数据。
- ❑ 数据库中包括生命体征，实验室测量值，药物，APACHE成分，护理计划信息，入院诊断，患者病史，结构化问题清单中带有时间戳的诊断以及类似选择的治疗方法。
- ❑ EICU数据库将支持许多应用，包括机器学习算法、决策支持工具和临床研究的开发。



- PIC，全称是Paediatric Intensive Care（儿科重症监护数据库）是一个免费的大型数据库。该数据库共包含了2010年~2018年间在我国浙江大学医学院附属儿童医院重症监护病房住院并在医院病历系统中有记录的18岁以下患者12881人。累计住院13449人次（3.6%有多次入院情况），累计入住ICU13941人次。
- 涉及ICU主要是：①普通ICU、②儿科ICU(PICU)、③外科ICU(SICU)、④心脏ICU(CICU)和⑤新生儿ICU(NICU)。



A paediatric intensive care database for researchers  
around the world

网址：<http://pic.nbscn.org/>

## ▶ 小结

- 同一个数据库发表多篇文章算重复发表吗？
- 在方法学部分，写清楚数据来源
- 国际免费公开数据的获取方法

## 总结

名称	专业方向	优势	挑战	研究设计	费用
NHANES	营养	样本量大	<ul style="list-style-type: none"><li>• 数据提取与合并</li><li>• 技术细节</li><li>• 硬终点</li></ul>	survey 横断面	free
eICU	重症、急诊、 大部分科室	样本量大 新库 结局指标：死亡	<ul style="list-style-type: none"><li>• 数据提取与合并</li></ul>	队列 横断面	free 注册
PIC	重症、急诊、 儿科、心脏 手术等	特殊人群 新库 结局指标：死亡	<ul style="list-style-type: none"><li>• 数据提取与合并</li></ul>	队列 横断面	free 注册
datadryad	各专业方向	专业方向全	<ul style="list-style-type: none"><li>• 单篇论文公开的数据</li><li>• 找合适的数据库</li></ul>	不限	free

其他可免费获取：SEER、MIMIC；需要权限：略



用公开数据库学方法  
建立中国人自己的数据库