

# Levels of Scientific Evidence,

## with Dr. Kat

Scientific evidence can be confusing! It's easy to mistake weak evidence for strong evidence. Sometimes people share unreliable things on social media with good intentions, but sometimes they're exploiting the public's lack of understanding of different levels of evidence. We all encounter claims online, but **all evidence is not created equal**. So, how can you tell the quality? This infographic can help you find your way.



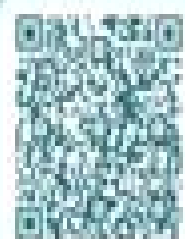
newslib.org

This infographic was developed by the News Library Project and Dr. Robert Wilkins, an epidemiologist and assistant professor at the University of Illinois at Chicago. Follow Dr. Kat on Twitter @epidemiologist.

A future founded on facts

### TIP Scientific evidence in the news

News reports and opinion pieces about scientific topics might cite a mix of different kinds of evidence. Be sure to examine what type is being presented & if it meets an expert's



#### Scan here

to watch Dr. Kat lead you through this chart

#### META-ANALYSIS

Statistical method that combines the results of multiple scientific studies

Example: Connection between intelligence test scores and education

#### SYSTEMATIC REVIEW

The gold standard for testing health claims. The reviewer does not include experiments but summarizes them. Researchers randomly assign participants to groups to make fair comparisons and test treatments & ways that evidence has

Example: Does COVID-19 vaccine work

#### WELL-CONTROLLED STUDY

A study that compares a group of individuals with a specific condition to a group of people without that condition to find out what may have caused it

Example: A study used to determine a link between smoking and lung cancer

Don't forget: Correlation does NOT equal causation

#### TWO GROUP / CASE STUDIES

A study on one person (report) or one group (series) of people with similar clinical characteristics. Because these studies don't make comparisons, they aren't as strong as the evidence in higher levels of the pyramid

Example: Clinical outcomes reported with the coronavirus

#### OPINION PIECE

An educated opinion presented without data. More prone to bias

## META-ANALYSIS AND SYSTEMATIC REVIEW

## RANDOMIZED TRIAL

## COHORT STUDY

## CASE-CONTROL STUDY

## CROSS-SECTIONAL STUDY

## CASE REPORT / CASE SERIES

## EXPERT OPINION

#### INTERVIEW REVIEW

Synthesis of all data summarized in a meta-analysis. Offers interpretation and context

Example: Evidence synthesized across all literature for COVID-19

#### COHORT STUDY

Often a large, long-term study that looks at what causes diseases in different groups (cohorts). It is not randomized

Example: Framingham Heart Study

#### CASE-CONTROL STUDY

A study that measures the health of a particular group of people at a particular point in time

Example: National Health and Nutrition Examination Survey

QUALITY OF EVIDENCE

# Scientific Studies

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## Scientific Studies:

*Scientific Studies at Fletcher's Ice Island, T-3, 1952-1955* Vivian Bushnell, 1960      **Scientific Papers** Rikagaku Kenkyūjo (Japan), 1928 Beginning with v 12 its Abstracts v 1 16 from its Bulletin v 7 22 were issued with the Scientific papers

**Research in the Social Scientific Study of Religion, Volume 14** Ralph L. Piedmont, David O. Moberg, 2021-10-01

Research in the Social Scientific Study of Religion RSSSR publishes reports of innovative studies that pertain empirically or theoretically to the scientific study of religion including spirituality regardless of their academic discipline or professional orientation It is academically eclectic not restricted to any one particular theoretical orientation or research method Most articles report the findings of quantitative or qualitative investigations but some deal with methodology theory or applications of social science studies in the field of religion

*Scientific Investigation of Continental Earthquakes and Relevant Studies* Yong-Gang Li, Yongxian Zhang, Zhongliang Wu, Ying Li, Xiaodong Zhang, 2025-04-30 This book focuses on seismogenic and tectonic environments seismogenic structures seismogenic fault structures earthquake physics rupture dynamic process source mechanism earthquake seismic anomalies and risk assessment exploration of prediction methods earthquake disaster characteristics and disaster causing mechanisms ground motion prediction as well as state of the art techniques

**Catalogue of Scientific Papers** Royal Society (Great Britain), 1914      **Reference Manual on Scientific Evidence**, 1994      *History of Operations Research in the United States Army* Charles R. Shrader, 2006 History of

Operations Research in the United States Army a comprehensive 3 volume set with each volume covering a different time span offers insights into the natural tension between military leaders and civilian scientists the establishment and growth of Army Operations Research OR organizations the use of OR techniques and the many contributions that OR managers and analysts have made to the growth and improvement of the Army since 1942      **Loch Leven: 40 years of scientific**

**research** Linda May, Bryan M. Spears, 2015-03-21 Shallow lakes are important for their amenity value and the ecosystem services that they support However many are located in areas of high population density and intensive farming activity As such they are subject to many stressors including eutrophication and climate change This book examines 40 years of data from Loch Leven a shallow lake in the lowlands of Scotland UK to gain a better understanding of the links between pollution climate change and ecological response at the landscape scale A wide range of topics is presented including long term changes in nutrient inputs internal phosphorus loading water quality algal concentrations and the biodiversity of macrophytes zooplankton benthic invertebrates fish and waterfowl The book provides evidence that attempts to improve ecosystem services at this site in the past have often resulted in unintended consequences for the lake and the local community It concludes that successful management actions in the future are likely to be those that incorporate lessons learned from previous decisions This book will be of great interest to freshwater ecologists working in the field and managers responsible for the protection and monitoring of natural areas It is also suitable as a supplementary text for courses in

freshwater science and environmental management Air Force Scientific Research Bibliography: 1950-56 Library of Congress. Science and Technology Division,1961 **Research on Health Effects of Radiation** United States. Interagency Radiation Research Committee,1980 Sustaining University Program Research United States. National Aeronautics and Space Administration, **Research Studies in Commercial Education** ,1926 **Investigation of So Called "rackets"**. United States. Congress. Senate. Committee on Commerce,1933 *The Study of Science and Religion* Carl Reinhold Brakenhielm,2018-06-06 The main aim of this book is to contribute to the relationship between science and religion This book aims to do constructive theological work out of a particular cultural context The point of departure is contemporary Swedish religion and worldviews One focus is the process of biologization i e how the worldviews of the general public in Sweden are shaped by biological science Is there a gap between Swedes in general and the perceptions of Swedish clergy The answer is based on sociological studies on science and religion in Sweden and the United States Furthermore the book contains a study of Swedish theologians from Nathan Soderblom to the present Archbishop Antje Jackelen and their shifting understanding of the relation between science and religion The philosophical aspects of this relation are given special consideration What models of the relation inform the contemporary scholarly discussion Are science and religion in conflict separate or in mutual creative interaction *New Developments in Medical Research* United States. Congress. House. Committee on Commerce. Subcommittee on Health and the Environment,1998 *Understanding Nursing and Healthcare Research* Patricia Cronin,Michael Coughlan,Valerie Smith,2014-12-01 This book focuses on enabling students to understand what research is why it is relevant in healthcare and how it should be applied in practice It takes the reader step by step through the research process from choosing research questions through to searching the literature analysing findings and presenting the final piece of work Key features of the book are Tips for the best practice when reading and critiquing research Activities to test your knowledge Key points which highlight the important topics A companion website which includes a critical appraisal tool to use when assessing papers multiple choice questions and free SAGE journal articles for students Seminar plans and PowerPoint slides are provided to support lecturers in their teaching It is essential reading for all undergraduate students of nursing midwifery and healthcare **Thinking as Researchers Innovative Research Methodology Content and Methods** Nagwa Babiker Abdulla Yousif,Shadia Abdelrahim Mohammed Daoud,2023-02-12 This book is appropriate for undergraduate and graduate research methods courses as well as for instructors academicians social researchers social workers and community development planners The book aims to give a brief summary about the critical thinking and innovative research methods which are crucial in academic s promotion and knowledge building Social Research Methods is one of the most important courses in the educational curriculum that adequately support students and researchers acquire the competencies they need to deal with complex data and new analytical tools World is changing and accordingly there are changing in the nature of data for instance big data analytics etc and the complexity of the

environment University instructors have to incorporate research in the undergraduate curriculum to allow the students to gain the knowledge and skills to learn the research process not to conduct it per se but rather to use the research to bridge the gap between knowledge and critical decision making      *Research Methodology (Methods and Techniques)* Mr. Rohit Manglik,2023-08-23 In this book we will study about research design data collection and analysis methods used in tourism and social sciences      **NOAA's Office of Undersea Research ... Report** United States. National Oceanic and Atmospheric Administration. Office of Undersea Research,1983      Clinical Research Manfred Stommel,Celia Wills,2004 This unique textbook integrates statistical concepts into evidence based clinical practice and patient management Research concepts and techniques are drawn from epidemiology bio statistics and psychometrics as well as educational and social science research Clinical examples throughout the text illustrate practical and scientifically sound applications of the concepts Data tables and research vignettes highlight statistical distributions involving probability Methods to locate and utilize web based information relevant to clinical research are discussed and web URLs are provided Further learning is encouraged by the inclusion of suggested activities recommended readings references and a comprehensive glossary of research terms Additional resources are available at a Connection Website connection LWW com go stommel

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