

ICM7067 Fundamentals of Research

This module is designed to give students a basic grounding in academic medicine, in preparation for the more detailed and specialist modules that follow.

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Akobeng, A. K. 'Understanding Measures of Treatment Effect in Clinical Trials'. *Archives of Disease in Childhood*, vol. 90, no. 1, Jan. 2005, pp. 54–56, <https://doi.org/10.1136/adc.2004.052233>.

---. 'Understanding Randomised Controlled Trials'. *Archives of Disease in Childhood*, vol. 90, no. 8, Aug. 2005, pp. 840–44, <https://doi.org/10.1136/adc.2004.058222>.

American Medical Association. *Users' Guides to the Medical Literature: A Manual for Evidence-Based Clinical Practice*. Edited by Gordon Guyatt et al., Third edition, McGraw-Hill Education Medical, 2015, <https://www-vlebooks-com.ezproxy.library.qmul.ac.uk/Vleweb/Product/Index/465564?page=0>.

Anhøj, Jacob, and Anne Vingaard Olesen. 'Run Charts Revisited: A Simulation Study of Run Chart Rules for Detection of Non-Random Variation in Health Care Processes'. *PLoS ONE*, vol. 9, no. 11, Nov. 2014, <https://doi.org/10.1371/journal.pone.0113825>.

ARRIVE Guidelines | NC3Rs. <https://www.nc3rs.org.uk/arrive-guidelines>.

BoringEM | Bringing the Boring to Emergency Medicine. <https://boringem.wordpress.com/>.
British Medical Association: Social Media Practical Guidance and Best Practice. <https://www.bma.org.uk/advice/employment/ethics/social-media-guidance-for-doctors>.

Carroll, C. L., et al. 'Social Media and Free Open Access Medical Education: The Future of Medical and Nursing Education?' *American Journal of Critical Care*, vol. 25, no. 1, Jan. 2016, pp. 93–96, <https://doi.org/10.4037/ajcc2016622>.

Chalmers, Iain, and Paul Glasziou. 'Avoidable Waste in the Production and Reporting of Research Evidence'. *The Lancet*, vol. 374, no. 9683, July 2009, pp. 86–89, [https://doi.org/10.1016/S0140-6736\(09\)60329-9](https://doi.org/10.1016/S0140-6736(09)60329-9).

Chan, An-Wen, et al. 'Increasing Value and Reducing Waste: Addressing Inaccessible Research'. *The Lancet*, vol. 383, no. 9913, Jan. 2014, pp. 257–66, [https://doi.org/10.1016/S0140-6736\(13\)62296-5](https://doi.org/10.1016/S0140-6736(13)62296-5).

Coats, T. J. 'Consent in Emergency Research: New Regulations'. *Emergency Medicine Journal*, vol. 22, no. 10, Oct. 2005, pp. 683–85, <https://doi.org/10.1136/emj.2005.024588>.

Cochrane Collaboration. *Cochrane Handbook for Systematic Reviews of Interventions*. Edited by Julian P. T. Higgins and Sally Green, Wiley-Blackwell, <http://ezproxy.library.qmul.ac.uk/login?url=https://onlinelibrary.wiley.com/doi/book/10.1002/9781119536604>.

Cochrane Handbook for Systematic Reviews of Interventions | Cochrane Training.
<http://training.cochrane.org/handbook>.

Costa, Matthew L., et al. 'Effect of Negative Pressure Wound Therapy vs Standard Wound Management on 12-Month Disability Among Adults With Severe Open Fracture of the Lower Limb'. *JAMA*, vol. 319, no. 22, June 2018, <https://doi.org/10.1001/jama.2018.6452>.

Data Protection: The Data Protection Act - GOV.UK.
<https://www.gov.uk/data-protection/the-data-protection-act>.

Dixon-Woods, Mary, et al. 'Ten Challenges in Improving Quality in Healthcare: Lessons from the Health Foundation's Programme Evaluations and Relevant Literature: Table 1'. *BMJ Quality & Safety*, vol. 21, no. 10, Oct. 2012, pp. 876–84, <https://doi.org/10.1136/bmjqs-2011-000760>.

Doctors' Use of Social Media (2013).
http://www.gmc-uk.org/guidance/ethical_guidance/21186.asp.

Does More Intensive Treatment of Acute Myocardial Infarction in the Elderly Reduce Mortality? Analysis Using Instrumental Variables. - PubMed - NCBI.
<https://www.ncbi.nlm.nih.gov/pubmed/8078163>.

EMCrit Blog - Emergency Department Critical Care & Resuscitation. <https://emcrit.org/>.

Fowler, A. J., et al. 'Meta-Analysis of the Association between Preoperative Anaemia and Mortality after Surgery'. *British Journal of Surgery*, vol. 102, no. 11, Oct. 2015, pp. 1314–24, <https://doi.org/10.1002/bjs.9861>.

Gardner, M. J., et al. *Statistics with Confidence: Confidence Intervals and Statistical Guidelines*. *British Medical Journal*, 1989,
<https://ebookcentral.proquest.com/lib/gmul-ebooks/detail.action?docID=1813669>.

Glasziou, Paul, et al. 'Reducing Waste from Incomplete or Unusable Reports of Biomedical Research'. *The Lancet*, vol. 383, no. 9913, Jan. 2014, pp. 267–76,
[https://doi.org/10.1016/S0140-6736\(13\)62228-X](https://doi.org/10.1016/S0140-6736(13)62228-X).

Gosall, Narinder Kaur, and Gural Singh Gosall. *The Doctor's Guide to Critical Appraisal*. Fourth edition, PasTest, 2015.

---. *The Doctor's Guide to Critical Appraisal*. Fourth edition, PasTest, 2015.

Greenhalgh, T., et al. 'Evidence Based Medicine: A Movement in Crisis?' *BMJ*, vol. 348, no. jun13 4, June 2014, pp. g3725–g3725, <https://doi.org/10.1136/bmj.g3725>.

Grimes, David A., and Kenneth F. Schulz. 'An Overview of Clinical Research: The Lay of the Land'. *The Lancet*, vol. 359, no. 9300, Jan. 2002, pp. 57–61,
[https://doi.org/10.1016/S0140-6736\(02\)07283-5](https://doi.org/10.1016/S0140-6736(02)07283-5).

Harris, M. *Medical Statistics Made Easy*.
<https://ebookcentral.proquest.com/lib/gmul-ebooks/detail.action?docID=183415>.

Haynes, R. Brian. *Clinical Epidemiology: How to Do Clinical Practice Research*. 3rd ed,

Lippincott Williams & Wilkins, 2006,
<https://ebookcentral.proquest.com/lib/gmul-ebooks/detail.action?docID=3418215>.

Health Research Authority - Protecting and Promoting the Interests of Patients and the Public in Health Research. <http://www.hra.nhs.uk/>.

Home - Getting the Best from IRAS.
<https://www.myresearchproject.org.uk/ELearning/index.html>.

Hosmer, David W., et al. Applied Logistic Regression. Third edition, vol. Wiley series in probability and statistics, Wiley, 2013,
<https://ebookcentral.proquest.com/lib/gmul-ebooks/detail.action?docID=1138225>.

Hulley, Stephen B. Designing Clinical Research: An Epidemiologic Approach. 2nd ed, Lippincott Williams & Wilkins, 2001,
<https://ebookcentral.proquest.com/lib/gmul-ebooks/detail.action?docID=2031635>.

ICU Podcasts - Intensive Care Network.
<http://intensivecarenetwork.com/media/podcasts/icu-podcasts/>.

Kenneth F. Schulz, Douglas G. Altman, David Moher and Kenneth Schulz. 'CONSORT 2010 Statement: Updated Guidelines for Reporting Parallel Group Randomised Trials'. BMJ: British Medical Journal, vol. 340, no. 7748, 2010, pp. 698-702,
http://www.jstor.org/stable/40702665?pq-origsite=summon&seq=1#page_scan_tab_contents.

LITFL □ Life in the Fast Lane Medical Blog <https://lifeinthefastlane.com/>.

Livingston, Edward H. 'Introducing the JAMA Guide to Statistics and Methods'. JAMA, vol. 312, no. 1, July 2014, <https://doi.org/10.1001/jama.2014.7991>.

Making and Using Visual and Audio Recordings of Patients.
http://www.gmc-uk.org/guidance/ethical_guidance/making_audiovisual.asp.

MDU Guide for Consultants - Guide to Social Media - The MDU.
<https://www.themdu.com/guidance-and-advice/guides/consultant-pack/guide-to-social-media>.

Mental Capacity Act 2005. <https://www.legislation.gov.uk/ukpga/2005/9/contents>.

NUEM Blog. <http://www.nuemblog.com/>.

Ogrinc, Greg, et al. 'SQUIRE 2.0 () : Revised Publication Guidelines from a Detailed Consensus Process: Table 1'. BMJ Quality & Safety, vol. 25, no. 12, Dec. 2016, pp. 986-92, <https://doi.org/10.1136/bmjqs-2015-004411>.

Perla, R. J., et al. 'The Run Chart: A Simple Analytical Tool for Learning from Variation in Healthcare Processes'. BMJ Quality & Safety, vol. 20, no. 1, Jan. 2011, pp. 46-51,
<https://doi.org/10.1136/bmjqs.2009.037895>.

Petrie, Aviva, and Caroline Sabin. Medical Statistics at a Glance. Wiley-Blackwell, 2013,
<http://web.b.ebscohost.com.ezproxy.library.qmul.ac.uk/ehost/detail/detail?vid=0&sid>

=48f37c11-e2e1-48e2-9e10-7e31fae47a8f%40sessionmgr103&data=JnNpdGU9ZWWhvc3QtbGl2ZQ%3d%3d#AN=2206759&db=nlebk.

Planning and Improving Research - Health Research Authority HRA Health Research Authority. <https://www.hra.nhs.uk/planning-and-improving-research/>.

Prehospital and Retrieval Medicine - THE PHARM Dedicated to the Memory of Dr John Hinds . <https://prehospitalmed.com/>.

Pulmcrit - EMCrit. <https://emcrit.org/category/pulmcrit/>.

RDS London - Research Design Service. <https://www.rds-london.nihr.ac.uk/>.

Read An Introduction to Medical Statistics at VLeBooks.Com. <https://www-vlebooks-com.ezproxy.library.qmul.ac.uk/Vleweb/Product/Index/572973?page=0>.

Read: How to Read a Paper.

<http://ezproxy.library.qmul.ac.uk/login?url=http://www.vlebooks.com/vleweb/product/openreader?id=QMUL&isbn=9781118801116&uid=^u>.

Research Governance Framework for Health and Social Care: Second Edition - GOV.UK. <https://www.gov.uk/government/publications/research-governance-framework-for-health-and-social-care-second-edition>.

Research Governance Frameworks - Health Research Authority.

<http://www.hra.nhs.uk/resources/research-legislation-and-governance/research-governance-frameworks/>.

Robin Harbour and Juliet Miller. 'A New System For Grading Recommendations In Evidence Based Guidelines'. BMJ: British Medical Journal, vol. 323, no. 7308, 2001, pp. 334-36, http://www.jstor.org/stable/25467609?pq-origsite=summon&seq=1#page_scan_tab_contents.

Rothman, Kenneth J., et al. Modern Epidemiology. 3rd ed., Thoroughly rev. and Updated, Wolters Kluwer Health/Lippincott Williams & Wilkins, 2008.

Rothwell, Peter M.1 peter.rothwell@clneuro.ox.ac.uk. 'External Validity of Randomised Controlled Trials: "To Whom Do the Results of This Trial Apply?".' Lancet, vol. 365, no. 9453, 2005, pp. 82-93, <https://www-sciencedirect-com.ezproxy.library.qmul.ac.uk/journal/the-lancet/vol/365/issue/9453>.

Sinclair, H. Louise, and Peter JD Andrews. 'Bench-to-Bedside Review: Hypothermia in Traumatic Brain Injury'. Critical Care, vol. 14, no. 1, 2010, <https://doi.org/10.1186/cc8220>.

STARD Initiative. <http://ibooked.no/stard-statement.html>.

Statistics Notes | The BMJ. <http://www.bmj.com/specialties/statistics-notes>.

St.Emlyn's - Emergency Medicine #FOAMed. <http://stemlynsblog.org/>.

The CRASH-2 Trial: A Randomised Controlled Trial and Economic Evaluation of the Effects of Tranexamic Acid on Death, Vascular Occlusive Events and Transfusion Requirement in Bleeding Trauma Patients. <https://www.journalslibrary.nihr.ac.uk/hta/hta17100/#/abstract>.

Thomas, Stephen H., et al. 'Variation Between Physicians and Mid-Level Providers in Opioid Treatment for Musculoskeletal Pain in the Emergency Department'. *The Journal of Emergency Medicine*, vol. 49, no. 4, Oct. 2015, pp. 415–23, <https://doi.org/10.1016/j.jemermed.2015.05.036>.

Toxbase Welcome. <https://www.toxbase.org/>.

van Wely, M. 'The Good, the Bad and the Ugly: Meta-Analyses'. *Human Reproduction*, vol. 29, no. 8, Aug. 2014, pp. 1622–26, <https://doi.org/10.1093/humrep/deu127>.