



Steven Goodman

Professor of Epidemiology and Population Health, of Medicine (Primary Care and Population Health) and, by courtesy, of Health Policy

CONTACT INFORMATION

- **Administrative contact**

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Bio

BIO

Steven Goodman, MD, MHS, PhD is Associate Dean of Clinical and Translational Research and Professor of Epidemiology and Population Health, and Medicine. He is founder and director of the Stanford Program on Research Rigor and Reproducibility (SPORR), whose purpose is to teach and implement best practices in reproducible research in the School of Medicine. He is co-founder and co-director of the Meta-research innovation Center at Stanford (METRICS), a group dedicated to examining and improving the reproducibility and efficiency of biomedical research. He led the Stanford CTSA KL2 and TL1 training programs from 2012-2019, was an Associate Director of the KL2 until 2024, and now leads the Translational Workforce Development components of the CTSA.

Dr. Goodman's own research concerns the proper measurement, conceptualization and synthesis of research evidence, with particular emphasis on Bayesian approaches to quantitation, and qualitative approaches arising from the philosophy of science. He is also interested in developing methods to use shared data to confirm and extend published science. He also has worked on the connections between ethics and clinical research and policy making. Finally, he has a strong interest in developing curricula and new models for teaching the foundations of good scientific practice, from question development to proper study design, conduct, analysis and inference. He teaches courses on clinical research methods, foundations of scientific and statistical reasoning, and evaluation of diagnostic and predictive technologies.

He has been a senior statistical editor of *Annals of Internal Medicine* since 1987 and was Editor of *Clinical Trials: Journal of the Society for Clinical Trials* from 2004-2013. He was Chair of the Methodology Committee of the Patient Centered Outcomes Research Institute (PCORI) until 2024, where he led their open science and data sharing efforts, and is scientific advisor for the national Blue Cross–Blue Shield Technology Assessment Program. He has served on numerous Institute of Medicine committees since the mid 1990's, including one on vaccine safety, chairing a 2012 committee on drug safety, and a 2014 committee on sharing data from clinical trials. He was awarded the 2016 Spinoza Chair in Medicine from the University of Amsterdam for his work in scientific inference, received the 2019 Abraham Lilienfeld award from the American College of Epidemiology for his lifetime research and teaching contributions to the field, and was elected into the National Academy of Medicine in 2020.

From 1989-2011, Steve served on the faculties of the Johns Hopkins Schools of Medicine and Public Health, where he was co-director of the doctoral program in Epidemiology and member (1989-2011) and then director (2007-2011) of the Johns Hopkins cancer center's Division of Biostatistics and Bioinformatics. At Hopkins, he taught courses on Systematic reviews and Meta-analysis, Diagnostic and prognostic testing, and several courses on epidemiologic, clinical research and inferential methods. He received an AB from Harvard, majoring in Biochemistry and Applied Math, an MD from NYU, trained and was board-certified in pediatrics at Washington University in St. Louis, and received a master's degree in Biostatistics and PhD in Epidemiology from Johns Hopkins.

ACADEMIC APPOINTMENTS

- Professor, Epidemiology and Population Health
- Professor (By courtesy), Health Policy
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Dean of Clinical and Translational Research, Stanford School of Medicine, (2011- present)
- Director, Stanford Program on Research Rigor and Reproducibility (SPORR), (2020- present)
- Co-Director, Meta-research Innovation Center at Stanford (METRICS), (2013- present)
- Director of Graduate Studies, Dept. of Epidemiology and Population Health, (2019- present)
- Co-Director, MedScholars Clinical Research Concentration, Stanford School of Medicine, (2011- present)
- Director, Spectrum Research Education and Training, Stanford School of Medicine, (2011- present)
- Chief, Division of Epidemiology, Dept. of Health Research and Policy, (2014-2019)
- Director, Division of Biostatistics and Bioinformatics, Department of Oncology, Johns Hopkins School of Medicine, (2007-2010)
- Professor of Oncology, Pediatrics, Biostatistics and Epidemiology, Johns Hopkins Schools of Medicine and Public Health, (1989-2011)

HONORS AND AWARDS

- Member, National Public Health Honor Society (1989)
- Myrto Lefkopoulou Distinguished Lecturer, Harvard Dept of Biostatistics (2000)
- Fellow, Society for Clinical Trials (2010)
- Spinoza Chair in Medicine, University of Amsterdam (2016)
- Abraham Lilienfeld Award, American College of Epidemiology (2019)
- Lifetime Fellow, American College of Epidemiology (2019)
- Elected Member, National Academy of Medicine (2020)
- Elected Fellow, Johns Hopkins Society of Scholars (2022)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Strategic Council for Research Excellence, Integrity, and Trust, National Academy of Sciences (2024 - present)
- Member, Statistical review committee, PNAS (2022 - present)
- Scientific Advisor and member, Medical Advisory Panel, National Blue Cross-Blue Shield Technology Assessment Program (2001 - present)
- Senior statistical editor, Annals of Internal Medicine (1987 - present)
- Chair, Methodology Committee, PCORI (2019 - 2024)
- Vice-chair, Methodology Committee, Patient Centered Outcomes Research Institute (PCORI) (2011 - 2019)
- Member, Advisory committee to the NIH director on the National Library of Medicine (2015 - 2015)
- Member, Committee on Responsible Sharing of Clinical Trial Data, Institute of Medicine (2013 - 2015)

- Co-chair, Committee on Drug Safety, Institute of Medicine (2010 - 2012)
- Editor in Chief, Clinical Trials: Journal of the Society for Clinical Trials (2004 - 2013)
- Member, Committee on Immunization Safety, Institute of Medicine (2001 - 2004)

PROFESSIONAL EDUCATION

- PhD, Johns Hopkins School of Public Health , Epidemiology (1989)
- MHS, Johns Hopkins School of Public Health , Biostatistics (1987)
- Board Certification, General Pediatrics, American Board of Pediatrics , Pediatrics
- Residency, St. Louis Children's Hospital, Washington University School of Medicine , Pediatrics
- MD, New York University , Medicine
- AB, Harvard College , Biochemistry, Applied Math

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I study issues relating to the representation and measurement of evidence in medical research and determinants of the reliability of biomedical research findings. I also do work in evidence synthesis, comparative effectiveness research, and the ethics of clinical research.

Teaching

COURSES

2025-26

- Epidemiology Research Seminar: EPI 236 (Aut)
- Essentials of Clinical Research at Stanford: EPI 273 (Win)
- Evaluating Technologies for Diagnosis, Prediction and Screening: EPI 219 (Win)
- Foundations of statistics and reproducible research: BIOS 217 (Aut)

2024-25

- Epidemiology Research Seminar: EPI 236 (Aut)
- Essentials of Clinical Research at Stanford: EPI 273 (Win)
- Evaluating Technologies for Diagnosis, Prediction and Screening: EPI 219 (Win)
- Foundations of Statistical and Scientific Inference: BIOS 264, EPI 264, STATS 264 (Aut)
- Foundations of statistics and reproducible research: BIOS 217 (Aut)
- Intensive Course in Clinical Research: EPI 245 (Aut)

2023-24

- Epidemiology Research Seminar: EPI 236 (Aut)
- Essentials of Clinical Research at Stanford: EPI 273 (Win)
- Evaluating Technologies for Diagnosis, Prediction and Screening: EPI 219 (Win)
- Foundations of Statistical and Scientific Inference: EPI 264, STATS 264 (Aut)
- Foundations of statistics and reproducible research: BIOS 217 (Aut)
- Intensive Course in Clinical Research: EPI 245 (Aut)
- Stanford CTSA Scholars Seminar: EPI 229 (Aut, Win, Spr)
- The Practice of Reproducible Research: BIOS 216 (Win)

2022-23

- Epidemiology Research Seminar: EPI 236 (Aut)
- Essentials of Clinical Research at Stanford: EPI 273 (Win)
- Foundations of Statistical and Scientific Inference: EPI 264, STATS 264 (Aut)
- Foundations of statistics and reproducible research: BIOS 217 (Aut)
- Intensive Course in Clinical Research: EPI 245 (Aut)
- Stanford CTSA Scholars Seminar: EPI 229 (Aut, Win, Spr)
- The Practice of Reproducible Research: BIOS 216 (Win)

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Cesar Baeta

Master's Program Advisor

Henry Moshfeghi

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Epidemiology (Phd Program)
- Epidemiology (Masters Program)

Publications

PUBLICATIONS

- **Highlighting Rigor, Reproducibility, and Transparency of Research in an Academic CV.** *Clinical and translational science*
Malički, M., Chandler, Z., Goodman, S. N.
2026; 19 (6): e70575
- **A New Look at P Values for Randomized Clinical Trials.** *NEJM evidence*
van Zwet, E., Gelman, A., Greenland, S., Imbens, G., Schwab, S., Goodman, S. N.
2024; 3 (1): EVIDoa2300003
- **How large should the next study be? Predictive power and sample size requirements for replication studies.** *Statistics in medicine*
van Zwet, E. W., Goodman, S. N.
2022
- **Assessment of the Frequency and Variety of Persistent Symptoms Among Patients With COVID-19: A Systematic Review.** *JAMA network open*
Nasserie, T., Hittle, M., Goodman, S. N.
2021; 4 (5): e2111417
- **Mortality outcomes with hydroxychloroquine and chloroquine in COVID-19 from an international collaborative meta-analysis of randomized trials.** *Nature communications*
Axfors, C., Schmitt, A. M., Janiaud, P., Van't Hooft, J., Abd-Elsalam, S., Abdo, E. F., Abella, B. S., Akram, J., Amaravadi, R. K., Angus, D. C., Arabi, Y. M., Azhar, S., Baden, et al
2021; 12 (1): 2349
- **U.S. Food and Drug Administration Reasoning in Approval Decisions When Efficacy Evidence Is Borderline, 2013-2018.** *Annals of internal medicine*
Janjaud, P., Irony, T., Russek-Cohen, E., Goodman, S. N.
2021
- **The Role of Masks in Mitigating the SARS-CoV-2 Pandemic: Another Piece of the Puzzle.** *Annals of internal medicine*

- Laine, C., Goodman, S. N., Guallar, E.
2020
- **COVID-19 Clinical Trials: A Teachable Moment for Improving Our Research Infrastructure and Relevance.** *Annals of internal medicine*
Kimmel, S. E., Califf, R. M., Dean, N. E., Goodman, S. N., Ogburn, E. L.
2020
 - **Harms From Uninformative Clinical Trials.** *JAMA*
Zarin, D. A., Goodman, S. N., Kimmelman, J.
2019
 - **The high resource impact of reformatting requirements for scientific papers.** *PloS one*
Jiang, Y. n., Lerrigo, R. n., Ullah, A. n., Alagappan, M. n., Asch, S. M., Goodman, S. N., Sinha, S. R.
2019; 14 (10): e0223976
 - **Inappropriate Statistical Analysis and Reporting in Medical Research: Perverse Incentives and Institutional Solutions.** *Annals of internal medicine*
Localio, A. R., Stack, C. B., Meibohm, A. R., Ross, E. A., Guallar, E., Wong, J. B., Cornell, J. E., Griswold, M. E., Goodman, S. N.
2018
 - **Assessing scientists for hiring, promotion, and tenure** *PLOS BIOLOGY*
Moher, D., Naudet, F., Cristea, I. A., Miedema, F., Ioannidis, J. P. A., Goodman, S. N.
2018; 16 (3): e2004089
 - **What does research reproducibility mean?** *SCIENCE TRANSLATIONAL MEDICINE*
Goodman, S. N., Fanelli, D., Ioannidis, J. P.
2016; 8 (341)
 - **Causal inference in public health.** *Annual review of public health*
Glass, T. A., Goodman, S. N., Hernán, M. A., Samet, J. M.
2013; 34: 61-75
 - **The Research-Treatment Distinction: A Problematic Approach for Determining Which Activities Should Have Ethical Oversight** *HASTINGS CENTER REPORT*
Kass, N. E., Faden, R. R., Goodman, S. N., Pronovost, P., Tunis, S., Beauchamp, T. L.
2013; 43: S4-S15
 - **An Ethics Framework for a Learning Health Care System: A Departure from Traditional Research Ethics and Clinical Ethics** *HASTINGS CENTER REPORT*
Faden, R. R., Kass, N. E., Goodman, S. N., Pronovost, P., Tunis, S., Beauchamp, T. L.
2013; 43: S16-S27
 - **Ethical Considerations in Studying Drug Safety - The Institute of Medicine Report** *NEW ENGLAND JOURNAL OF MEDICINE*
Mello, M. M., Goodman, S. N., Faden, R. R.
2012; 367 (10): 959-964
 - **Quasi-random reflections on randomized controlled trials and comparative effectiveness research** *CLINICAL TRIALS*
Goodman, S. N.
2012; 9 (1): 22-26
 - **The Methods of Comparative Effectiveness Research** *ANNUAL REVIEW OF PUBLIC HEALTH, VOL 33*
Sox, H. C., Goodman, S. N.
2012; 33: 425-445
 - **Metabias: A Challenge for Comparative Effectiveness Research** *ANNALS OF INTERNAL MEDICINE*
Goodman, S., Dickersin, K.
2011; 155 (1): 61-U104
 - **Confessions of a chagrined trialist** *BMJ QUALITY & SAFETY*
Goodman, S.
2011; 20: I97-I98

- **Rethinking Randomized Clinical Trials for Comparative Effectiveness Research: The Need for Transformational Change** *ANNALS OF INTERNAL MEDICINE*
Luce, B. R., Kramer, J. M., Goodman, S. N., Connor, J. T., Tunis, S., Whicher, D., Schwartz, J. S.
2009; 151 (3): 206-W45
- **A dirty dozen: Twelve P-value misconceptions** *SEMINARS IN HEMATOLOGY*
Goodman, S.
2008; 45 (3): 135-140
- **Stopping at nothing? Some dilemmas of data monitoring in clinical trials** *ANNALS OF INTERNAL MEDICINE*
Goodman, S. N.
2007; 146 (12): 882-887
- **Reproducible research: Moving toward research the public can really trust** *ANNALS OF INTERNAL MEDICINE*
Laine, C., Goodman, S. N., Griswold, M. E., Sox, H. C.
2007; 146 (6): 450-453
- **Assessing the unreliability of the medical literature: A response to ?Why most published research findings are false?** www.bepress.com/jhubiostat/paper135
Goodman SN, Greenland S
2007
- **Introduction to Bayesian methods I: measuring the strength of evidence** *CLINICAL TRIALS*
Goodman, S. N.
2005; 2 (4): 282-290
- **A Bayesian approach to randomized controlled trials in children utilizing information from adults: the case of Guillain-Barre syndrome** *CLINICAL TRIALS*
Goodman, S. N., Sladky, J. T.
2005; 2 (4): 305-310
- **Of P-values and bayes: A modest proposal** *EPIDEMIOLOGY*
Goodman, S. N.
2001; 12 (3): 295-297
- **Toward evidence-based medical statistics. 2: The Bayes factor** *ANNALS OF INTERNAL MEDICINE*
Goodman, S. N.
1999; 130 (12): 1005-1013
- **Toward evidence-based medical statistics. 1: The P value fallacy** *ANNALS OF INTERNAL MEDICINE*
Goodman, S. N.
1999; 130 (12): 995-1004
- **SOME PRACTICAL IMPROVEMENTS IN THE CONTINUAL REASSESSMENT METHOD FOR PHASE-I STUDIES** *STATISTICS IN MEDICINE*
Goodman, S. N., Zahurak, M. L., PIANTADOSI, S.
1995; 14 (11): 1149-1161
- **ASSOCIATION BETWEEN CIGARETTE-SMOKING AND MUTATION OF THE P53 GENE IN SQUAMOUS-CELL CARCINOMA OF THE HEAD AND NECK** *NEW ENGLAND JOURNAL OF MEDICINE*
Brennan, J. A., Boyle, J. O., Koch, W. M., Goodman, S. N., Hruban, R. H., EBY, Y. J., COUCH, M. J., Forastiere, A. A., Sidransky, D.
1995; 332 (11): 712-717
- **THE USE OF PREDICTED CONFIDENCE-INTERVALS WHEN PLANNING EXPERIMENTS AND THE MISUSE OF POWER WHEN INTERPRETING RESULTS** *ANNALS OF INTERNAL MEDICINE*
Goodman, S. N., Berlin, J. A.
1994; 121 (3): 200-206
- **P-VALUES, HYPOTHESIS TESTS, AND LIKELIHOOD - IMPLICATIONS FOR EPIDEMIOLOGY OF A NEGLECTED HISTORICAL DEBATE** *AMERICAN JOURNAL OF EPIDEMIOLOGY*
Goodman, S. N.

1993; 137 (5): 485-496

- **A COMMENT ON REPLICATION, P-VALUES AND EVIDENCE** *STATISTICS IN MEDICINE*
Goodman, S. N.
1992; 11 (7): 875-879
- **META-ANALYSIS AND EVIDENCE** *CONTROLLED CLINICAL TRIALS*
Goodman, S. N.
1989; 10 (2): 188-204
- **EVIDENCE AND SCIENTIFIC-RESEARCH** *AMERICAN JOURNAL OF PUBLIC HEALTH*
Goodman, S. N., Royall, R.
1988; 78 (12): 1568-1574
- **A scoping study of the whole-cell imaging literature as a foundation for the emerging field of cell anatomy.** *BMC biology*
Mirvis, M., Weingard, B., Goodman, S. N., Marshall, W. F.
2026
- **Registration and reporting of clinical trials affiliated with California universities and with primary completion date from 2014 to 2017.** *Trials*
Malički, M., Nachev, V., Wieschowski, S., Hildebrand, N., Gestrich, S., Yerunkar, S., Zavalis, E., Carlisle, B. G., Franzen, D. L., Salholz-Hillel, M., Goodman, S. N., Strech, D.
2025
- **Key takeaways from Stanford's symposium on AI for Data Science** *JOURNAL OF CLINICAL AND TRANSLATIONAL SCIENCE*
Desai, M., Auerbach, J., Baker, L., Benjamin-Chung, J., Bondy, M., Boulos, M., Bunning, B. J., Deng, N., Goodman, S. N., Horn, I., Linos, E., Musen, M. A., Sanders, et al
2025; 9 (1)
- **Key takeaways from Stanford's symposium on AI for Data Science.** *Journal of clinical and translational science*
Desai, M., Auerbach, J., Baker, L., Benjamin-Chung, J., Bondy, M., Boulos, M., Bunning, B. J., Deng, N., Goodman, S. N., Horn, I., Linos, E., Musen, M. A., Sanders, et al
2025; 9 (1): e237
- **Remembering Drummond Rennie-Champion of Integrity in Science and Scientific Publication.** *JAMA*
Flanagin, A., Godlee, F., Goodman, S. N., Gunsalus, C. K., Ioannidis, J. P., Knoll, E.
2025
- **Single-Arm Trials Can Provide Randomized Real-World Evidence: The Random Invitation Single-Arm Trial Design.** *Annals of internal medicine*
Janiaud, P., Ioannidis, J. P., Kasenda, B., Fretheim, A., Goodman, S. N., Hemkens, L. G.
2025
- **Reply to: On meta-analytic models and the effect of hydroxychloroquine use in COVID-19.** *Nature communications*
Schmitt, A. M., Axfors, C., Moher, D., Goodman, S. N., Ioannidis, J. P., Hemkens, L. G.
2025; 16 (1): 6354
- **CONSORT 2025 statement: updated guideline for reporting randomized trials: a Korean translation.** *Ewha medical journal*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 48 (3): e50
- **SPIRIT 2025 statement: updated guideline for protocols of randomised trials** *LANCET*
Chan, A., Boutron, I., Hopewell, S., Moher, D., Schulz, K. F., Collins, G. S., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 405 (10491): E19-E27
- **SPIRIT 2025 statement: updated guideline for protocols of randomized trials.** *Nature medicine*
Chan, A. W., Boutron, I., Hopewell, S., Moher, D., Schulz, K. F., Collins, G. S., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025

- **SPIRIT 2025 explanation and elaboration: updated guideline for protocols of randomised trials.** *BMJ (Clinical research ed.)*
Hróbjartsson, A., Boutron, I., Hopewell, S., Moher, D., Schulz, K. F., Collins, G. S., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 389: e081660
- **SPIRIT 2025 statement: updated guideline for protocols of randomised trials.** *BMJ (Clinical research ed.)*
Chan, A. W., Boutron, I., Hopewell, S., Moher, D., Schulz, K. F., Collins, G. S., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 389: e081477
- **SPIRIT 2025 statement: updated guideline for protocols of randomised trials.** *BMJ (Clinical research ed.)*
Chan, A. W., Boutron, I., Hopewell, S., Moher, D., Schulz, K. F., Collins, G. S., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 389: e081477
- **CONSORT 2025 statement: updated guideline for reporting randomized trials.** *Nature medicine*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025
- **CONSORT 2025 statement: updated guideline for reporting randomised trials.** *BMJ (Clinical research ed.)*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 389: e081123
- **CONSORT 2025 statement: updated guideline for reporting randomised trials.** *Lancet (London, England)*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025
- **CONSORT 2025 Statement: Updated Guideline for Reporting Randomized Trials.** *JAMA*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025
- **CONSORT 2025 explanation and elaboration: updated guideline for reporting randomised trials.** *BMJ (Clinical research ed.)*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 389: e081124
- **Standardization and Prediction to Control Confounding: Estimating Risk Differences and Ratios for Clinical Interpretations and Decision Making.** *Annals of internal medicine*
Localio, A. R., Henegan, J. A., Chang, S., Meibohm, A. R., Ross, E. A., Goodman, S. N., Couper, D., Guallar, E., Griswold, M. E.
2025
- **CONSORT 2025 statement: Updated guideline for reporting randomised trials.** *PLoS medicine*
Hopewell, S., Chan, A. W., Collins, G. S., Hróbjartsson, A., Moher, D., Schulz, K. F., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 22 (4): e1004587
- **SPIRIT 2025 statement: Updated guideline for protocols of randomised trials.** *PLoS medicine*
Chan, A. W., Boutron, I., Hopewell, S., Moher, D., Schulz, K. F., Collins, G. S., Tunn, R., Aggarwal, R., Berkwits, M., Berlin, J. A., Bhandari, N., Butcher, N. J., Campbell, et al
2025; 22 (4): e1004589
- **A scoping study of the whole-cell imaging literature: a foundational corpus, potential for data-mining and research synthesis, and a call for standardization of an emerging field.** *bioRxiv : the preprint server for biology*
Mirvis, M., Weingard, B., Goodman, S., Marshall, W. F.
2025
- **Author Correction: Mortality outcomes with hydroxychloroquine and chloroquine in COVID-19 from an international collaborative meta-analysis of randomized trials.** *Nature communications*

- Axfors, C., Schmitt, A. M., Janiaud, P., Van't Hoof, J., Abd-El salam, S., Abdo, E. F., Abella, B. S., Akram, J., Amaravadi, R. K., Angus, D. C., Arabi, Y. M., Azhar, S., Baden, et al
2024; 15 (1): 1075
- **Research rigor and reproducibility in research education: A CTSA institutional survey.** *Journal of clinical and translational science*
Axfors, C., Malički, M., Goodman, S. N.
2024; 8 (1): e45
 - **Medulloblastoma and other neoplasms in patients with heterozygous germline SUFU variants: A scoping review.** *American journal of medical genetics. Part A*
Lee, S. G., Evans, G., Stephen, M., Goren, R., Bondy, M., Goodman, S.
2024
 - **Comparative cell anatomy through evidence synthesis**
Mirvis, M., Goodman, S., Marshall, W. F.
AMER SOC CELL BIOLOGY.2024
 - **PNAS establishes a Statistical Review Committee.** *Proceedings of the National Academy of Sciences of the United States of America*
Raftery, A. E., Carriquiry, A. L., Daniels, M. J., Gatsonis, C., Goodman, S. N., Herring, A. H., Reid, N. M.
2023; 120 (47): e2317870120
 - **Researching COVID to Enhance Recovery (RECOVER) adult study protocol: Rationale, objectives, and design.** *PloS one*
Horwitz, L. I., Thaweethai, T., Brosnahan, S. B., Cicek, M. S., Fitzgerald, M. L., Goldman, J. D., Hess, R., Hodder, S. L., Jacoby, V. L., Jordan, M. R., Krishnan, J. A., Laiyemo, A. O., Metz, et al
2023; 18 (6): e0286297
 - **Seeing the Positive in Negative Studies.** *Annals of internal medicine*
Guallar, E., Goodman, S. N., Localio, A. R., Stephens-Shields, A. J., Laine, C.
2023
 - **Race and Ethnicity Reporting and Representation in Pediatric Clinical Trials.** *Pediatrics*
Brewster, R. C., Steinberg, J. R., Magnani, C. J., Jackson, J., Wong, B. O., Valikodath, N., MacDonald, J., Li, A., Marsland, P., Goodman, S. N., Schroeder, A., Turner, B.
2023
 - **The Danish-American Research Exchange (DARE): a cross-sectional study of a binational research education program.** *BMC medical education*
Mehta, K. M., Petersen, K. L., Goodman, S., Sorensen, H. T., Bogsted, M., Olesen, J. D., Burks, S., Shaw, R. E., Hove, J. D., Ousager, J., Milla, C., Andersen, V., Ejskjar, et al
2023; 23 (1): 96
 - **Development of a Definition of Postacute Sequelae of SARS-CoV-2 Infection.** *JAMA*
Thaweethai, T., Jolley, S. E., Karlson, E. W., Levitan, E. B., Levy, B., McComsey, G. A., McCorkell, L., Nadkarni, G. N., Parthasarathy, S., Singh, U., Walker, T. A., Selvaggi, C. A., Shinnick, et al
2023
 - **The Impact of Intermittent Fasting on Patients With Suspected Gastroesophageal Reflux Disease.** *Journal of clinical gastroenterology*
Jiang, Y., Sonu, I., Garcia, P., Fernandez-Becker, N. Q., Kamal, A. N., Zikos, T. A., Singh, S., Neshatian, L., Triadafilopoulos, G., Goodman, S. N., Clarke, J. O.
2022
 - **Robustness of reported postacute health outcomes in children with SARS-CoV-2 infection: a systematic review.** *Archives of disease in childhood*
Hirt, J., Janiaud, P., Gloy, V. L., Schandelmaier, S., Pereira, T. V., Contopoulos-Ioannidis, D., Goodman, S. N., Ioannidis, J., Munkholm, K., Hemkens, L. G.
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