



## Ariadne Nichol

- Affiliate, Department Funds
- Resident in Medicine

### Bio

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#### BIO

Ariadne Nichol is a resident physician in Internal Medicine at Stanford and a researcher at the Stanford Center for Biomedical Ethics. She earned her bachelor's degree in Human Biology from Stanford University, where she graduated with Honors in Ethics in Society and was named a Public Service Scholar. She earned her medical degree from the UC San Diego School of Medicine, where she developed a biomedical ethics course and received a teaching award from the School of Medicine. She has previously worked on global public health research ethics topics with the World Health Organization, Doctors Without Borders, and the National Public Health Organization of Greece. Her work has been published in several peer-reviewed journals, including the American Journal of Bioethics, PLOS ONE, and JAMA Network Open. Her research interests include ethical issues in biomedical research involving vulnerable populations, as well as the ethical and social implications of big data and machine learning in health care and for precision medicine.

#### PROFESSIONAL EDUCATION

- MD, UCSD School of Medicine
- BA, Stanford University

### Publications

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#### PUBLICATIONS

- **Ethical Considerations in the Design and Conduct of Clinical Trials of Artificial Intelligence.** *JAMA network open*  
Youssef, A., Nichol, A. A., Martinez-Martin, N., Larson, D. B., Abramoff, M., Wolf, R. M., Char, D.  
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- **Moral Engagement and Disengagement in Health Care AI Development.** *AJOB empirical bioethics*  
Nichol, A. A., Halley, M., Federico, C., Cho, M. K., Sankar, P. L.  
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- **Developer Perspectives on Potential Harms of Machine Learning Predictive Analytics in Health Care: Qualitative Analysis.** *Journal of medical Internet research*  
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2021; 11 (7): e052287
- **Ethics of emerging infectious disease outbreak responses: Using Ebola virus disease as a case study of limited resource allocation.** *PloS one*

- Nichol, A. A., Antierens, A.  
2021; 16 (2): e0246320
- **Decision-Making Approaches Used to Limit Potentially Nonbeneficial Life-Prolonging Interventions.** *JAMA network open*  
Batten, J. N., Weiss Goitandia, S., Axelrod, J. K., Chernicoff, H. O., Nichol, A. A., Pereira, L. M., Blythe, J. A., Kruser, J. M., Dzung, E. W.  
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  - **Machine learning for precision medicine: promoting value considerations through perspective-taking hypothetical group design exercises.** *AI and ethics*  
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  - **A Novel Radiographic and Genetic Variant of Adult-Onset Leukoencephalopathy With Axonal Spheroids and Pigmented Glia: Case Report.** *The Neurohospitalist*  
Nichol, A. A., Ngo, A. B., Alharthi, M., Hird, K., Owen, M., Raefsky, S., Yang, J. H.  
2025; 16 (2): 19418744251377118
  - **Validation of a 3D-Printed Silicone-Based Laryngeal Model for Resident Education.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Yousef, A., Ostrander, B. T., Lin, J. T., Nichol, A. A., Vahabzadeh-Hagh, A. M., Cates, D., Morimoto, T. K., Weissbrod, P. A.  
2025; 172 (1): 214-223
  - **Assessing Long-Term Quality of Life Concerns Through Survivorship Clinic in Head and Neck Cancer Patients.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Yousef, A., Nichol, A., Luu, B., Montesa, C., Ramsey, C., Verpukhovskiy, P., Blumenfeld, L., Linnemeyer-Risser, K., Guo, T.  
2025; 172 (1): 167-175
  - **A case report of sinonasal glomangiopericytoma: An important reminder to always collect specimen.** *Science progress*  
Nichol, A. A., Bernard, B. J., Gilani, S.  
2024; 107 (2): 368504241253679
  - **The clinical utility of three frailty measures in identifying HIV-associated neurocognitive disorders.** *AIDS (London, England)*  
Moore, D. J., Sun-Suslow, N., Nichol, A. A., Paolillo, E. W., Saloner, R., Letendre, S. L., Iudicello, J., Morgan, E. E.  
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  - **Emerging Infectious Diseases at the Intersections of Human, Animal, and Environmental Health.** *AMA journal of ethics*  
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2024; 26 (2): E99-102
  - **Not in my AI: Moral engagement and disengagement in health care AI development.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*  
Nichol, A. A., Halley, M. C., Federico, C. A., Cho, M. K., Sankar, P. L.  
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  - **Rapid Review of COVID-19 Vaccination Access and Acceptance for Global Refugee, Asylum Seeker and Undocumented Migrant Populations.** *International journal of public health*  
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  - **The ethics of COVID-19 vaccine distribution.** *Journal of public health policy*  
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  - **A Typology of Existing Machine Learning-Based Predictive Analytic Tools Focused on Reducing Costs and Improving Quality in Health Care: Systematic Search and Content Analysis.** *Journal of medical Internet research*  
Nichol, A. A., Batten, J. N., Halley, M. C., Axelrod, J. K., Sankar, P. L., Cho, M. K.  
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  - **Ethics in Research: Relevance for Nephrology.** *Seminars in nephrology*  
Nichol, A. A., Mwaka, E. S., Luyckx, V. A.  
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- **Potential Implications of Testing an Experimental mRNA-Based Vaccine During an Emerging Infectious Disease Pandemic.** *The American journal of bioethics : AJOB*  
Nichol, A. A.  
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- **The One Health Approach to Zoonotic Emerging Infectious Diseases.** *The American journal of bioethics : AJOB*  
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