



***Artificial Intelligence and
Machine Learning in Health
Care: Bioethics and AI***

I. Glenn Cohen, JD

**Deputy Dean and James A. Attwood and
Leslie Williams Professor, Harvard Law
School**

**Director, Petrie-Flom Center for Health
Law Policy, Biotechnology and
Bioethics**

igcohen@law.harvard.edu

Ethics of Building + Implementing Predictive Analytics

Phase 1: Acquiring Data

- Consent
- Data Set Representativeness
- Governance

Phase 2: Building and Validating Model

- Auditing
- Transparency
- Trade Secrecy

Phase 3: Testing Model in Real World Settings

- Notice and Consent for Use on Patients?
- Liability
- Regulator Role

Phase 4: Broad Dissemination

- Equitable Access

AI and Bias: More Complex than Meets the Eye

Science

Current Issue

First release papers

Archive

About ▾

Submit manus

HOME > SCIENCE > VOL. 366, NO. 6464 > DISSECTING RACIAL BIAS IN AN ALGORITHM USED TO MANAGE THE HEALTH OF POPULATIONS

RESEARCH ARTICLE



Dissecting racial bias in an algorithm used to manage the health of populations

ZIAD OBERMEYER , BRIAN POWERS, CHRISTINE VOGELI, AND , SENDHIL MULLAINATHAN  [Authors Info & Affiliations](#)

SCIENCE • 25 Oct 2019 • Vol 366, Issue 6464 • pp.447-453 • DOI: 10.1126/science.aax2342

↓ 14,951 🗨️ 576



 GET ACCESS

Racial bias in health algorithms

The U.S. health care system uses commercial algorithms to guide health decisions. Obermeyer *et al.* find evidence of racial bias in one widely used algorithm, such that Black patients assigned the same level of risk by the algorithm are sicker than White patients (see the Perspective by Benjamin). The authors estimated that this





Thank you!



ново nordisk fonden

GORDON AND BETTY
MOORE
FOUNDATION