

# Law & Policy for Learning Health Care Systems

Frank Pasquale '01

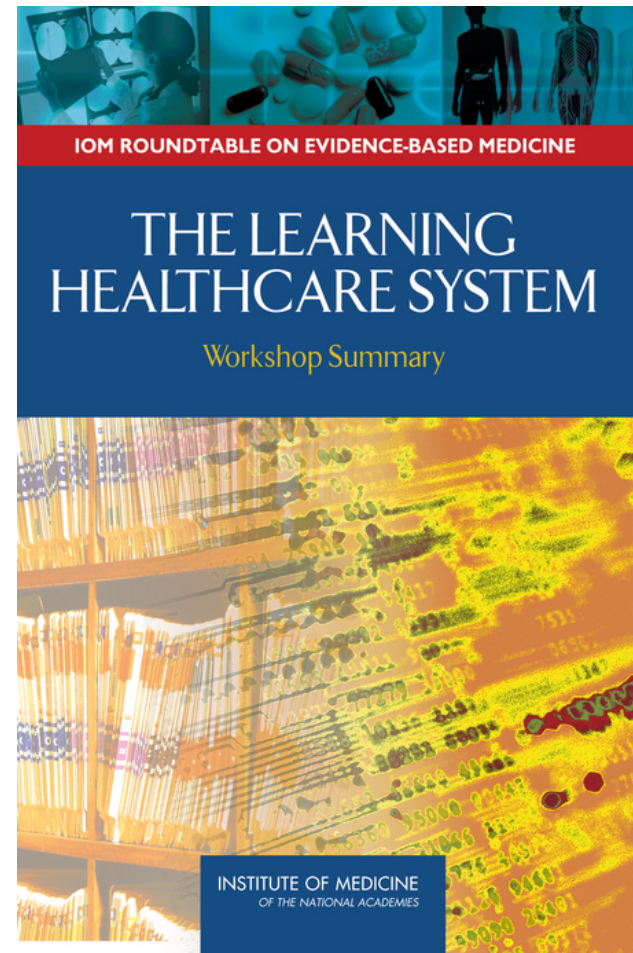
Professor of Law, University of Maryland

Presentation for Yale Reunion '16

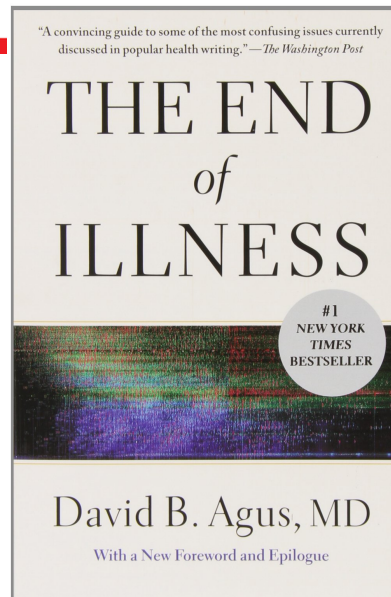
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# Clinical Care as Research Opportunity

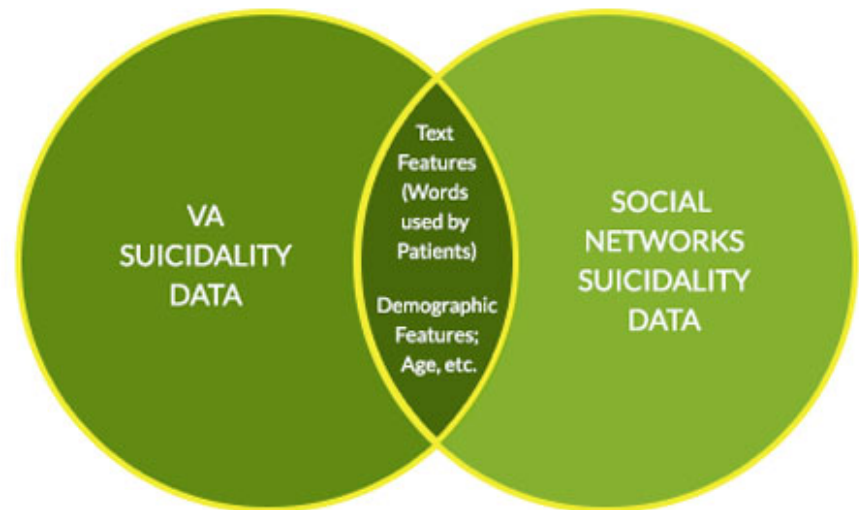
- The traditional distinction between clinical care and research is breaking down.
- “Learning health care systems” (LHCSs) are one result
- The hope:
  - generalizable research
  - personalized comparisons of treatment effectiveness



# Hype or Hope?

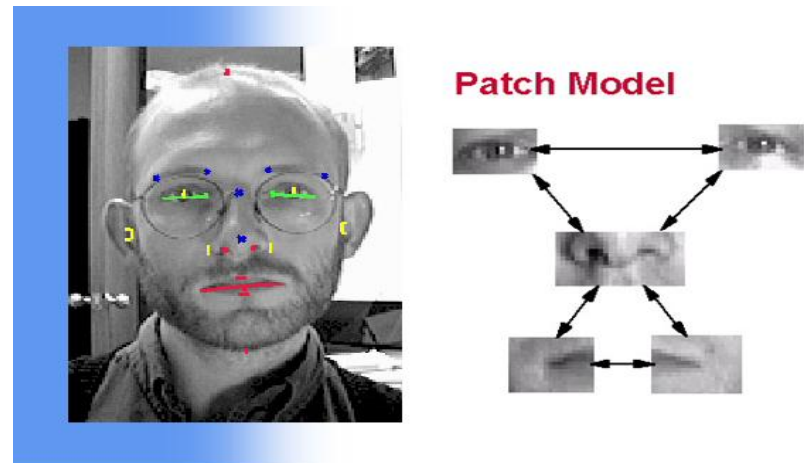


# Mental Health & Automation

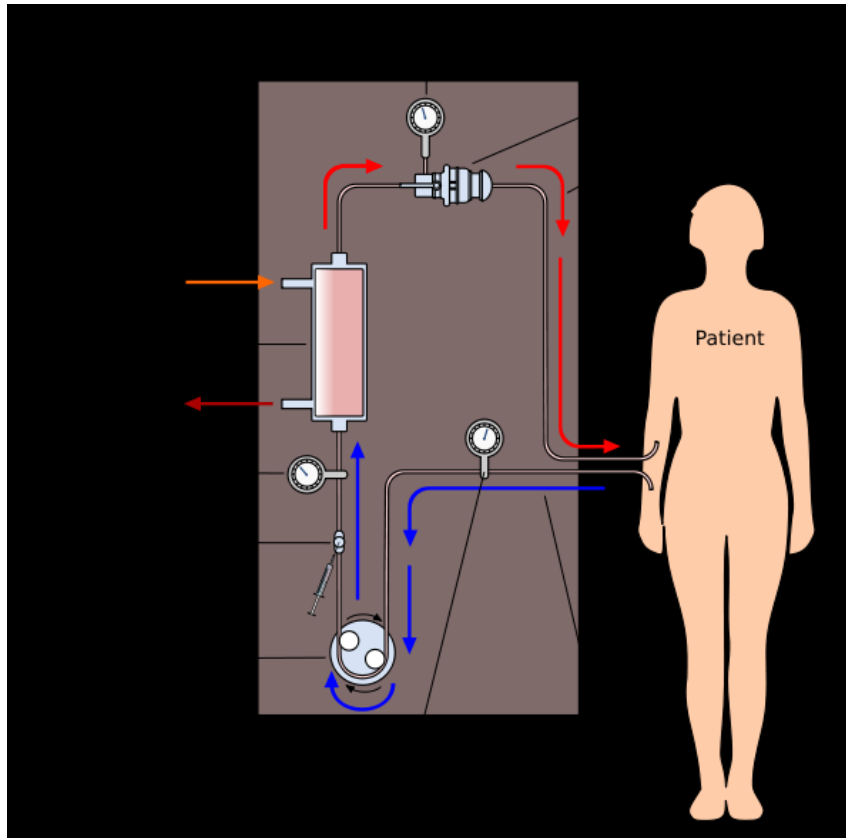


# Machine Learning for Diagnostics or Decision Support

- Facial recognition software may eventually support depression screening.
- Should policymakers encourage it as standard care?
  - Embedded CDSS?
  - Facilitating HIE of face images?



# At-Risk Patient Sorting



- A predictive analytics program might
  - Analyze data from 1000 dialysis patients
  - Identify 15 most at-risk
  - Nudge nephrologist to make appointment with them
    - Must they be told about this process?
    - Must the other 985?

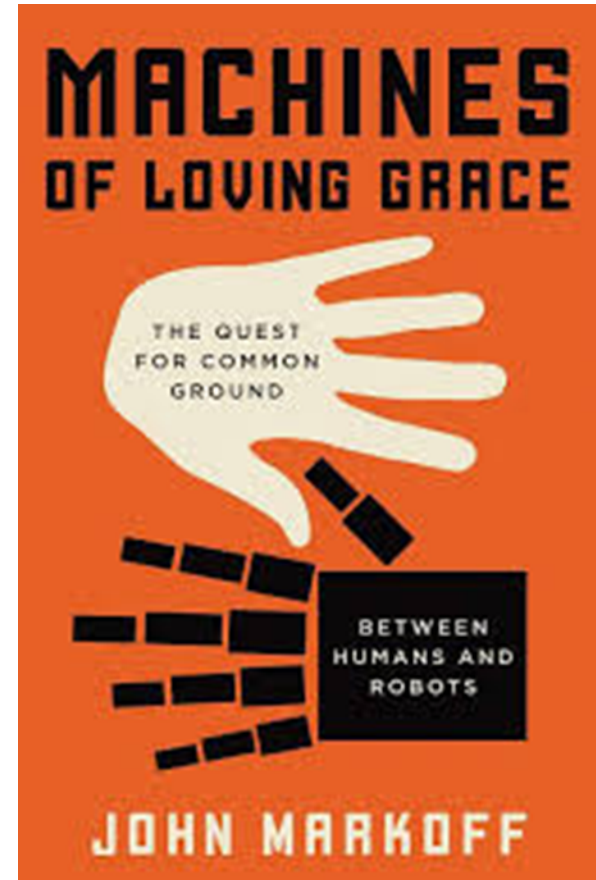


# Cloud Robotics Systems Learning to Comfort or Support the Elderly



# Ideas for Informed Consent in the LHCS

- Complexity does not mean lack of regulability
- Access to data important for both
  - Autonomy
  - Privacy
  - Scientific and clinical validity
- Intelligence Augmentation vs. AI





# *Thanks for listening!*

- I have more health & technology law links @HealthPI on Twitter
- & in my book:

