Radiologists overwhelmed in Brescia, Italy

Violate patient privacy for CXRs?

Alone and depressed

Do you deepfake?

Parallel tendencies
in cancer vulnerability and AI efficacy

Can technical bias be socially fair?

TITLE
NEW HEALTHCARE ETHICS TO MANAGE AI POTENTIAL

ARGUMENT

AI healthcare creates dilemmas disproportionate
to the human-scaled ethics of traditional biomedicine

New tools & logic required for AI healthcare

JAMES BRUSSEAU, PACE UNIVERSITY, NYC AND UNIVERSITY OF TRENTO, ITALY

PRINCIPLES: 1979 VERSUS 2021
TRADITIONAL BIOETHICS VERSUS AI ETHICS

Autonomy
Beneficence
Nonmaleficence

Justice

Autonomy
Dignity
Privacy

Fairness
Solidarity
Social Wellbeing

Performance
Explainability
Accountability

Principles of Biomedical Ethics,
Beauchamp & Childress, 1979

EC Ethics Guideline for Trustworthy AI,
adapted/modified by Brusseau, 2021

Examples:
AI ethics tools managing dilemmas
that are disproportionate
to traditional biomedical ethics

① PRIVACY

Dilemma: Violate privacy for CXRs in Brescia?
Prodigious health benefits apply previously
inconceivable pressure on individual privacy
to benefit society, to benefit oneself

New questions:
Must personal biological information be shared?
When? Based on what?

Can we live without biological privacy?
  • Re-imagine experience w/ predictable health:
    Do I want insurance company to know?

  • Do *I want to know* = limited versus absent time

Examples:
AI ethics tools managing dilemmas
that are disproportionate
to traditional biomedical ethics

② **DIGNITY**

DILEMMA:
DEEPFAKE THE DEPRESSED FOR THEIR OWN HAPPINESS?

Structural, not one-off: Healthcare *as* deception
Commission, not omission like a placebo

NEW QUESTIONS:
Sacrifice human dignity for biological health?

Rethink (radically) the value of truth?

How are lies justified?
- Autonomy (Freedom possible w/o truth)?
- Happiness? (Where does the privileging
  of happiness lead?)

Examples:
AI ethics tools managing dilemmas
that are disproportionate
to traditional biomedical ethics

③ **FAIRNESS**

DILEMMA: CAN AI TECHNICAL BIAS BE SOCIALLY FAIR?

1. Fairness versus Solidarity (Aristotle *v.* Rawls)
2. Fairness = switch from social/legal categories to technical
   - Brescia case – those living near highways diagnosed less accurately by CXRs
   - No human way to predict where imbalances may accrue / Everyone always at risk

NEW QUESTION:

90% success of a diagnostic AI conceals 90% failure for those whose last name starts with W. How to balance social/lottery welfare against the individual vulnerability?

TITLE
New Healthcare Ethics to Manage the Potential of AI

CONCLUSION
Dilemmas of AI healthcare are disproportionate to traditional biomedical ethics, and require the new tools of contemporary AI ethics.

JAMES BRUSSEAU, PACE UNIVERSITY NYC & UNIVERSITY OF TRENTO, ITALY
DECK AT: ai.ethicsworkshop.org/Library/AISummitNYC2021.pdf