



AIDV-WG D4: Guidance for Ethics Committees Reviewing AI and DV

in behalf of WG **Valery Sokolchik**, PhD, Republican Centre on Bioethics,
Belarussian Medical Academy of Postgraduate Education (Belarus,
Minsk)

Why we need Ethical Committees (REC, IRB, IEC) reviewing AI and DV?

- **Protection** of Human rights in research (to protect the **rights, dignity, welfare, confidentiality, etc.** of research volunteers);
- **Protection** of **Human Risks** while using AI;
- **Control** of implementation of ethical principles **for AI**;
- **Control** and Realization of **open dialogue** with society;
- **Control** and Realization of **community engagement** and **dissemination** of knowledge...
- Independent evaluation;
- Evaluating formally and informally;
- Cooperating with institutional secretariats;
- Connecting with scientists and professionals;
- Connecting with public and media;
- Knowing main principles of scientific work (including principles of using AI and DV)....

Values and rules of

- Datasets and Databases
- FAIR (& ALCOA), CARE, TRUST
- Community Engagement
- Dissemination of research results

Open science: Transparency, Scrutiny, Critique and Reproducibility; Equality of opportunities; Responsibility, Respect and accountability; Collaboration, Participation and Inclusion; Flexibility; Sustainability.

**Principles
of Open
science**

**Principles
of
research
integrity**

R. Merton:

universalism, communism, disinterestedness, organized skepticism

RDA:

Openness, Consensus, Inclusive, Harmonization, Community driven, Non-profit, technology-neutral

**Additional
principles of
research
with AI& DV**

**Additional
Principles of
individual
research
sphere**

Autonomy

Justice Non-Maleficence Beneficence

Values & Principles of Open Science 2023

Does REC can reviewing AI successfully ?

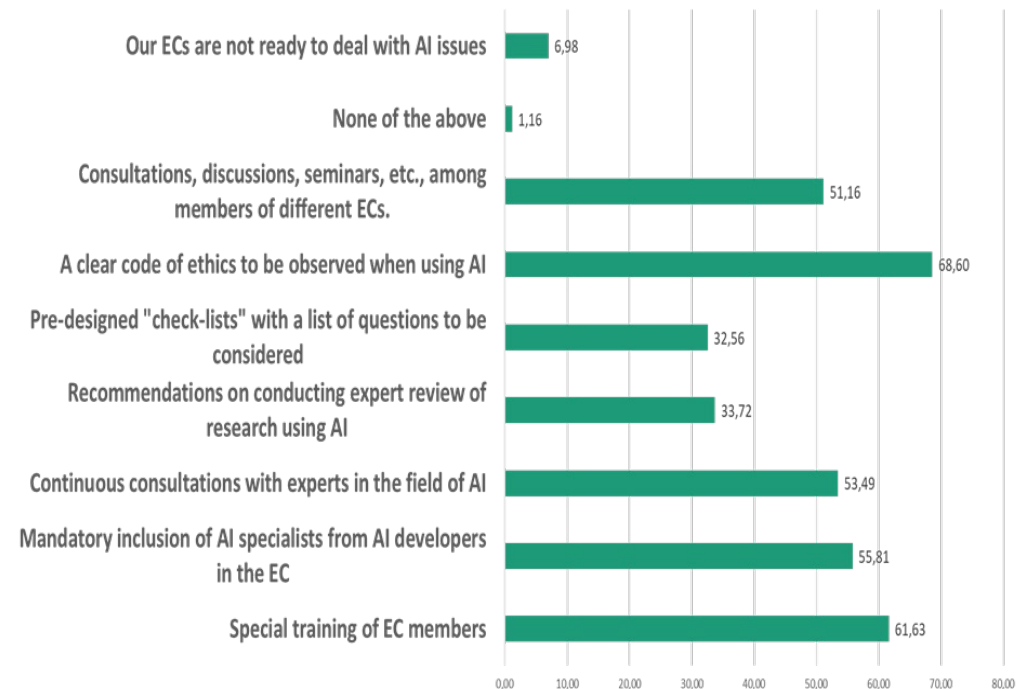
What Ethical Principles do we need for reviewing AI?

Pilot survey

- **Where?** Countries of Eastern Europe and Central Asia (by google-form)
- **When?** January-February 2023
- **Who?** people involved in biomedical research, members of ethics committees (total 105 participants)
- **What?** The prepared questionnaire included 18 questions divided into three blocks:
 - 1 block - general questions;
 - 2 block - questions related to biomedical research;
 - 3 block - questions related to EC

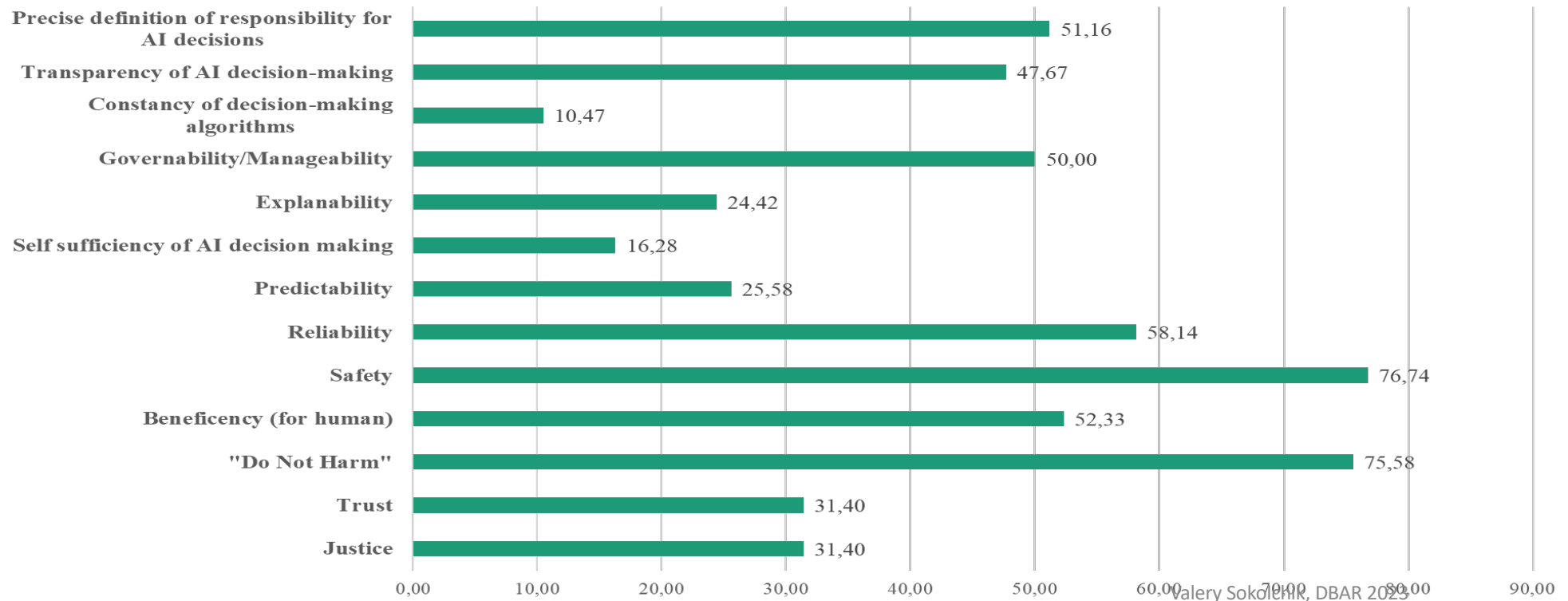
Valery Sokolchik, DBAR 2023

What would help members of EC for reviewing AI



The Pillars for Ethics Committees when reviewing AI

What ethical principles/attitudes are necessary to address contemporary research conducted with AI ?



EOSC-Future & RDA Artificial Intelligence/Data Visitation Workgroup

Deliverable 4: Guidance for Ethics Committees Reviewing AI and DV (draft)

Objective principles:

- Safety& robustness
- Governability&accountability
- Explainability &transparency
- *Effectiveness*

Subjective principles

- Justice/fairness
- Trust



EOSC-Future & RDA Artificial Intelligence/Data Visitation Workgroup

Deliverable 4

Guidance for Ethics Committees Reviewing AI and DV

Draft Recommendations Summary:

1. Building multi-disciplinary review committees
2. Develop criteria that details potential risks
3. Develop material to assist with regulatory review of research including AI
4. Develop targeted training to help identify risks of AI
5. Identify ancillary committees to assist with the review of AI

6. Appendix:

1. Checklist for REC reviewing research with AI/DV (*before the starting of the research*)
2. Checklist for REC reviewing research with AI/DV (*examining the completed research*)
3. Schemes for REC (main ethical principles and values)
4. Survey questions (to determine the Trust in AI/DV)

Thank you for your attention!

valerys0406@gmail.com
biomedicinercb@gmail.com