



LATVIJAS  
UNIVERSITĀTE

# Patients as research participants: how to meet ethics standards?

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ASOC. PROF. SIGNE MEŽINSKA

UNIVERSITY OF LATVIA, FACULTY OF MEDICINE

# Outline

- Background
- Quality of informed consent
- Therapeutic misconception
- Research participant involvement

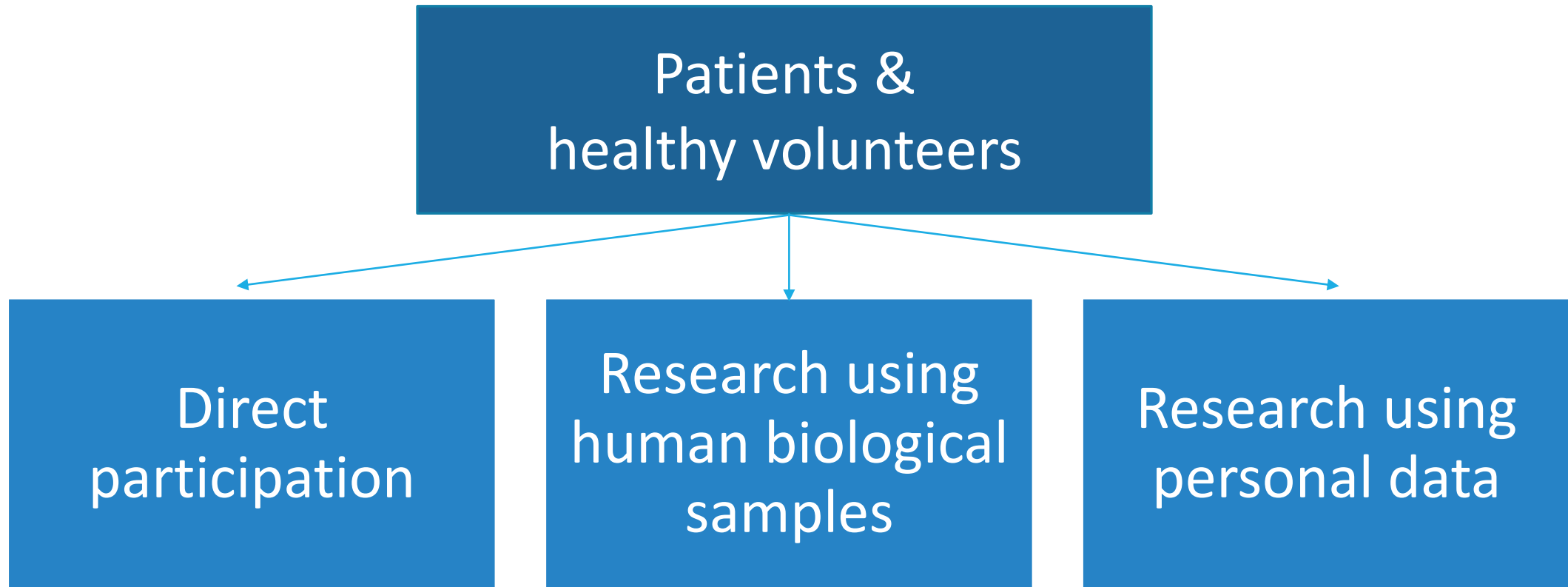


# Background

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# Patient involvement in medical research (human subject research)

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# Biomedical research vs. clinical practice

Human subject research	Clinical practice
Purpose - to benefit future patients	Purpose - to benefit an individual patient by prevention, diagnostics and treatment
Contributes to generalizable knowledge	Provides direct benefit to the patient
Uncertainty about the results	Reasonably foreseeable results
Often - deviation from standard practice: innovative (additional) treatment procedures	Usually, no deviation from the standard practice (clinical guidelines)

# Normative and legal framework

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**Nuremberg Code**

**Declaration of Helsinki  
- Ethical Principles for  
Medical Research  
Involving Human  
Subjects (WMA)**

**International Ethical  
Guidelines for  
Biomedical Research  
Involving Human  
Subjects (CIOMS)**

**WHO Standards**

**Declaration of Taipei  
Ethical Considerations  
regarding Health  
Databases and  
Biobanks (WMA)**

**CoE Convention on  
Human Rights and  
Biomedicine**

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PRINCIPLES OF  
BIOMEDICAL  
ETHICS FIFTH  
EDITION

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TOM L. BEAUCHAMP  
JAMES F. CHILDRESS

# Principles of biomedical ethics

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## Autonomy

- Informed consent

## Beneficence

- Public (and individual) benefits

## Non-maleficence

- Risk-benefit ratio

## Justice

- Fair recruitment and non-discrimination



# Quality of informed consent

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# Elements of consent

## Capacity

- Is a person competent to understand, evaluate, and make a decision on whether to participate or not?

## Information

- Is it complete, comprehensive and fully understood?

## Voluntariness

- Do research participants have a choice to refuse participation or withdraw and are they aware of this choice?

## Different types of consent

Informed consent for a research study

Open consent

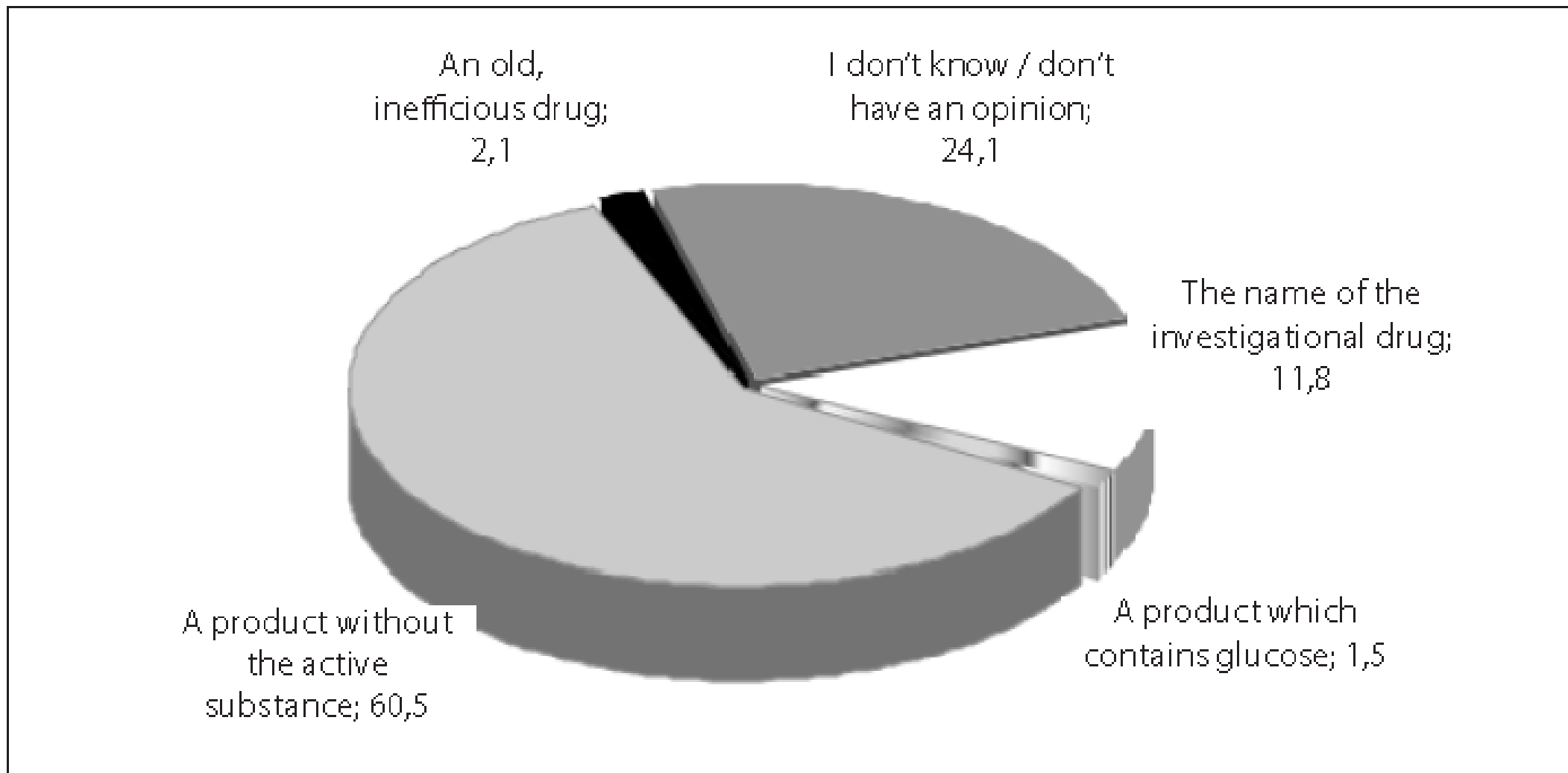
Broad consent

Dynamic consent

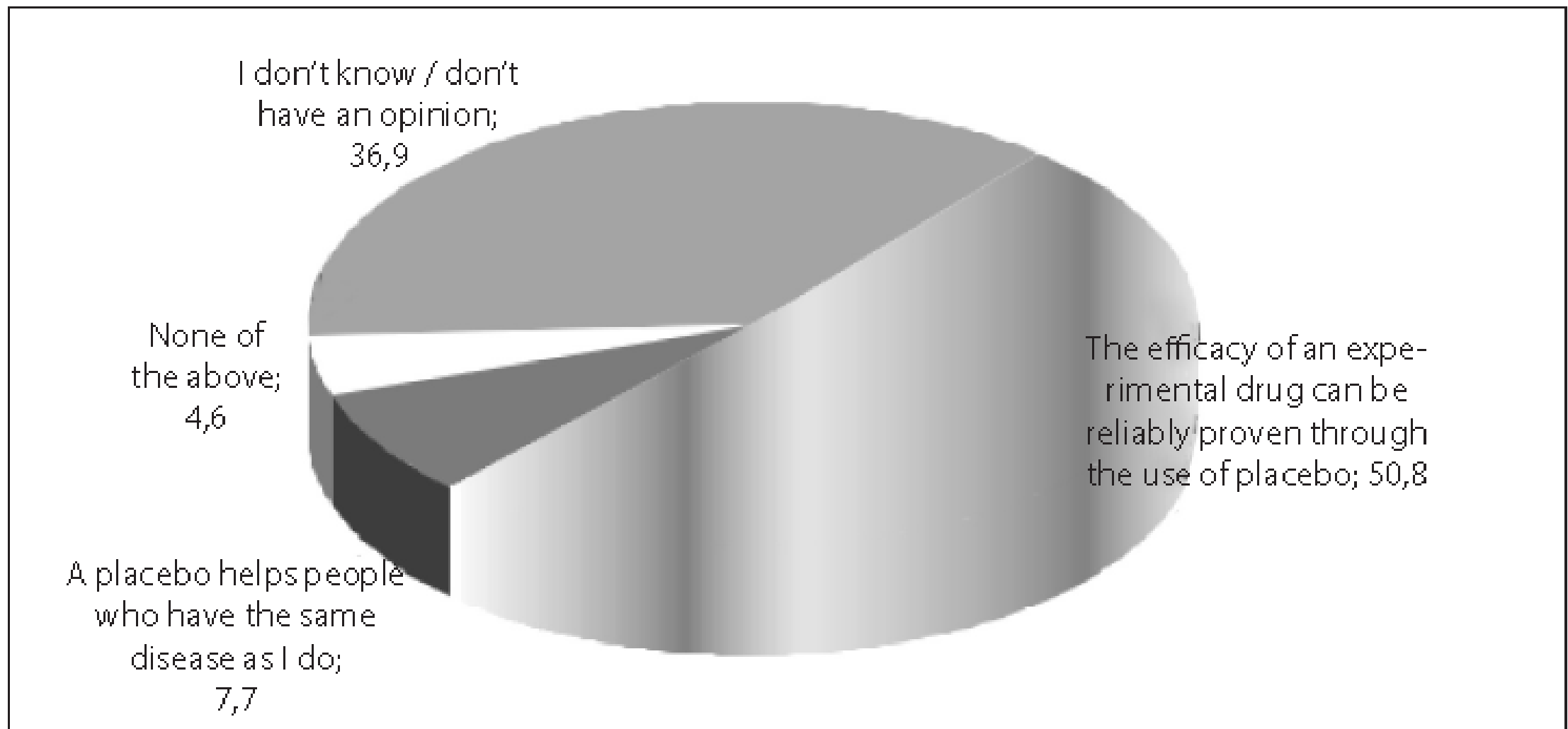
Opt-in/opt-out

## Quality of informed consent

- Research participant has to understand potential risks, benefits, conditions of participation, study design and his/her right to withdraw without penalty
- If consent is not informed, it can be as bad as (or worse than) not getting consent at all



**Fig. 3: Distribution of answers to the question, “What, in your opinion, is a placebo? (percentage)**



**Fig. 4: Distribution of respondents' answers to the question, "Why, in your opinion, is a placebo used in clinical trials?" (percentage)**

«The results of the study reveal that the legal framework sets the basis for adequate informedness about clinical trials of clinical trial participants, however, patients participating in placebo-controlled clinical trials are insufficiently informed about clinical trials. Patients participating in placebo-controlled clinical trials are better informed about the rights of clinical trial participants than about clinical trial design, however, informedness about design is a more important condition for overall informedness. The majority of placebo-controlled clinical trial participants do not understand at least one of the three key elements of clinical trials design and they tend to interpret the scientific methods used in clinical trials therapeutically.»

Čekanauskaitė, A. (2013). Informedness about clinical trials of patients participating in placebo-controlled clinical trials in Lithuania. <https://epublications.vu.lt/object/elaba:1925159/>

«We concluded that there are significant discrepancies in research participants' understanding of voluntary participation, blinding, and freedom to withdraw. Only rarely did all participants respond correctly to questionnaire items, indicating that they actually comprehended what they consented to. We found that participants presented the highest level of understanding (over 50%) about voluntary participation, blinding (excluding knowledge about investigators' blinding), and freedom to withdraw at any time. Further, our results suggest that only a small minority of patients had a clear and accurate understanding of all aspects of their consent. In particular, patients presented significant difficulties in grasping the concept of placebo randomisation, safety, risks, and side effects. [...] Additionally, some patients had very limited comprehension of the research benefits.»

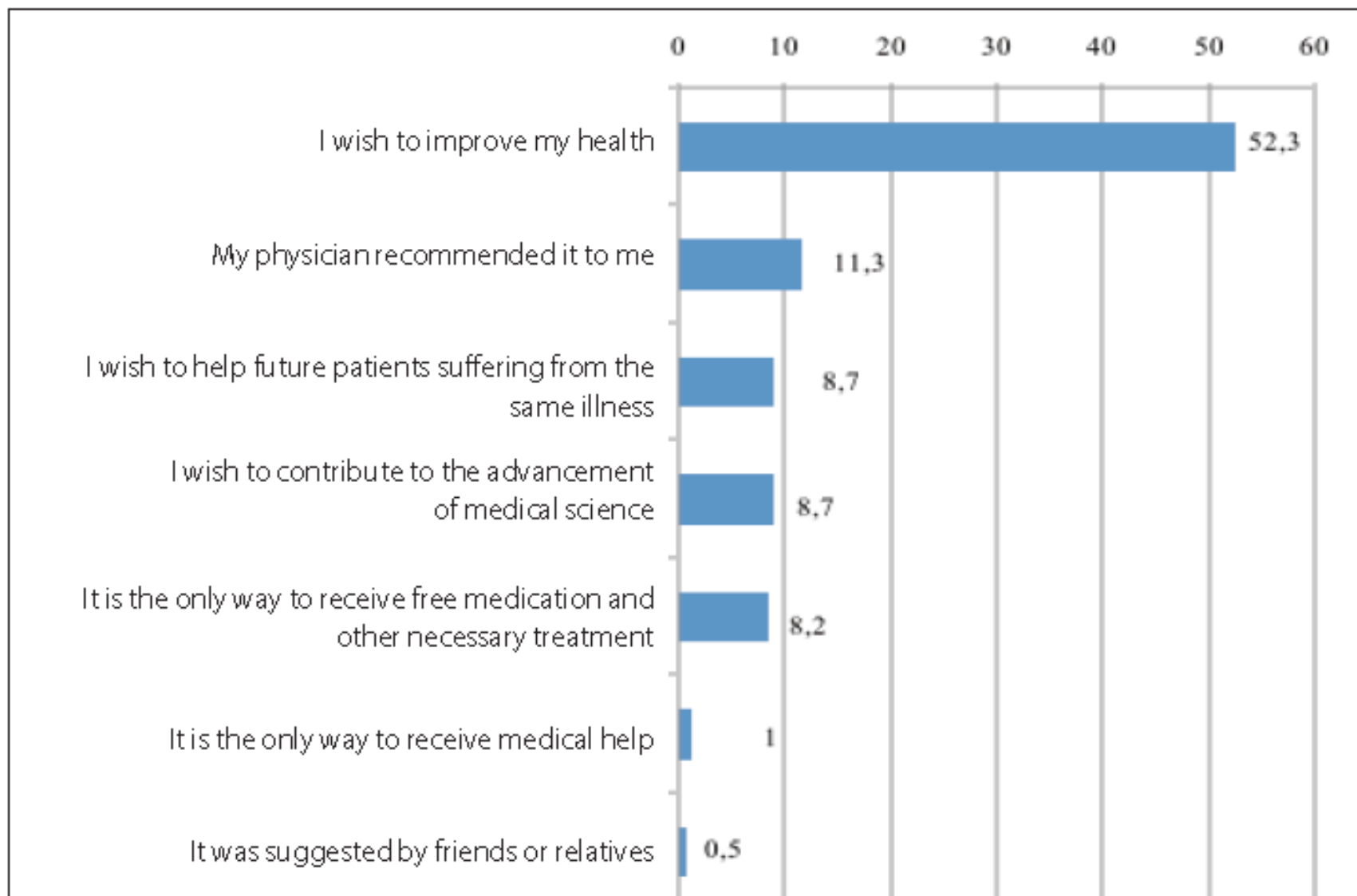
Pietrzykowski, T., Smilowska, K. The reality of informed consent: empirical studies on patient comprehension—systematic review. *Trials* **22**, 57 (2021). <https://doi.org/10.1186/s13063-020-04969-w>



# Therapeutic misconception

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**Fig. 7: The distribution of answers to the question, “Why did you agree to participate in the trial?” (percentage)**

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## Therapeutic misconception

Research subjects may enter research studies because they think they will individually benefit from the research intervention

### Causes:

- Human nature – we hear only what we want to hear
- Confusion of roles of physician and researcher
- The confusing methods of science (placebo, randomization etc.)

«A body of evidence identifies the various vulnerabilities associated with the process of informed consent. Commonly misconceptions about the nature of research, especially those that mistake research for treatment, the ‘therapeutic misconception’, can occur. Serious misconceptions about research potentially undermine the validity of consent. Various factors increase the likelihood of therapeutic and other serious misconceptions, which include the complexity of the research, the timing and context of decisions. Researchers may also contribute to misconceptions, for example by being too optimistic about the benefits of research. Wider factors such as the ‘promissory’ hyperbole that accompanies public discussion of bioscience research also encourage inflated expectations of research.»

# Therapeutic misconception

- Potential participants should not be excluded from participating in research just because a therapeutic misconception is present
- Researchers are responsible for dispelling unrealistic hopes
- Researchers have a duty to ensure that the decision to participate is well-informed and voluntary
- Some guidelines advise to avoid situation where treating physician is the person who recruits the patient for research



# Research participant involvement

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# Participation

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Research ethics  
committees

Community based  
participatory  
research

Citizen science

# Community based participatory research

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«Community-based participatory research (CBPR) is an approach to research that involves collective, reflective and systematic inquiry in which researchers and community stakeholders engage as equal partners in all steps of the research process with the goals of educating, improving practice or bringing about social change »

Tremblay, MC., Martin, D.H., McComber, A.M. *et al.* Understanding community-based participatory research through a social movement framework: a case study of the Kahnawake Schools Diabetes Prevention Project. *BMC Public Health* **18**, 487 (2018).



# Citizen science

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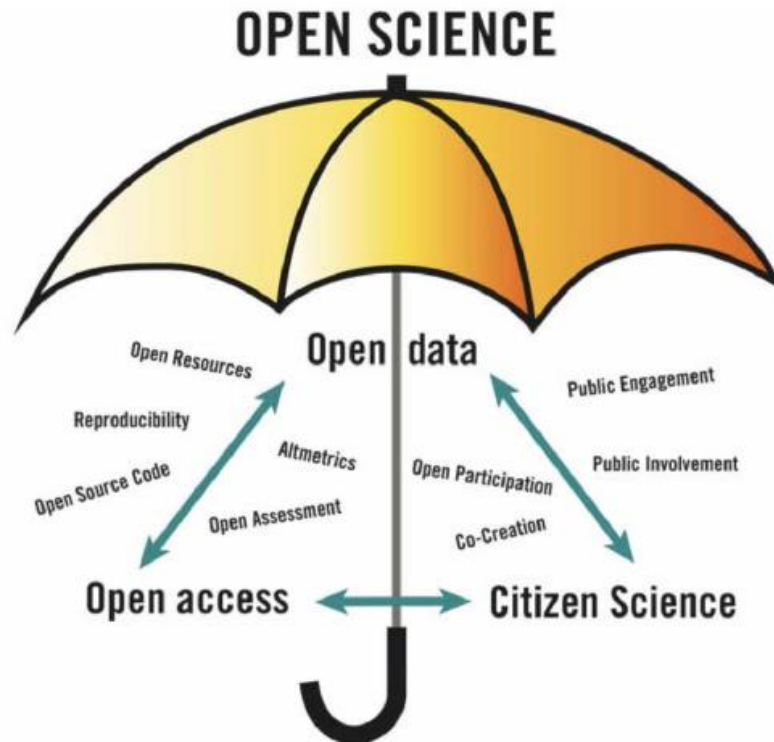


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Responsible open science in Europe

**ROSIE**

<https://rosie-project.eu/>



# IESAISTIES

## SABIEDRĪBAS UN ZINĀTNIKU SADARBĪBA PILOTPROJEKTĀ

Latvijas Mikrobioma projekts ir Latvija pirma sabiedriskās zinātnes iniciatīva, kuras ietvaros ikviens Latvijas iedzīvotājs ir aicināts nodot savu bioloģisko materiālu zarnu traktā dzīvojošo mikroorganismu izpētei un pretī saņemt savu zarnu mikrobioma raksturojumu. Projektā var piedalīties jebkurš Latvijas iedzīvotājs, kas vēlas brīvprātīgi iesaistīties Valsts iedzīvotāju genoma datubāzē, nododot asins un feču paraugu, kā arī var veikt līdzmaksājumu 30 EUR vērtībā, lai daļēji segtu projekta izmaksas.



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Questions?