Good Research Ethics and Conduct: I Ethics, Morals and Research

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What Ethics Dictates and the Law of Demands

Key References

► Swedish Research Council, SRC (2017). Good Research Practice. Vetenskapsrådet, Stockholm.

What Ethics Dictates and the Law of Demands



⁰Source: http://theprofitrecipe.com

What Ethics Dictates and the Law of Demands

Ethics and Morals

- ► A clear distinction between "ethics and morals"
- ► Morals: everyone has a set of morals reflected in choices, actions and behaviour towards others
- ► Ethics: a set of principles acquired consciously and reflectively
 - ▶ Ethics therefore means a type of theory in the area of morals
- ► Ethics contains moral precepts that are conscious, reflected on and motivated

What Ethics Dictates and the Law of Demands

Ethics and Morals Cont.

- Research Ethics: norms, (principles) formulated by the research community
 - ► These norms work together and offer guidance
- ► A Code: a collection of research ethics rules
 - More specified norms regarding a certain research area or certain stages of research projects
- Normative assumptions that dictate what is good or bad and that recommend or forbid different behaviours are parts of both ethics and morals

What Ethics Dictates and the Law of Demands

Research Ethics and Professional Ethics

- Research Ethics: not well-defined
 - Links research and ethics as well as ethical standards
 - Key aspect: how people who participate in research as subjects or informants can be treated
 - People should be protected to the highest degree possible from harms or wrongs!
- ► Professional ethics: the researchers responsibility towards research and the research community
- Many of the issues we will discuss are of the professional ethics type

What Ethics Dictates and the Law of Demands

Merton's CUDOS Norms

- Robert Merton (an American Sociologist in the 1940's): CUDOS norms
 - Communism/Communalism: the research community and society as a whole have the right to be informed of the results of research
 - Universalism: scientific work should be evaluated with reference to scientific criteria alone
 - ▶ Disinterestedness: the researchers should have no other incentive for his/her research than a desire to contribute new knowledge
 - ► Organized Scepticism: the researcher should constantly question and scrutinise, but also refrain from expressing an assessment until he or she has sufficient evidence on which to base it

What Ethics Dictates and the Law of Demands

Merton's CUDOS Norms Cont.

- ► The position of the researcher changed a lot since formulation of Merton's CUDOS norms
 - ► Loyalty to organizations, superiors, financial and job security issues come into play
- Merton's norms are difficult to live up to in reality:
- The disinterestedness norm
 - ► Common for researchers to research to have other motives to do research e.g., promotion
 - ► The key issue is to follow a good/ethical research conduct
- ► The communism norm difficult to live up to in some cases e.g., industrial setting

What Ethics Dictates and the Law of Demands

Ethics Codes

- ▶ No harms or wrongs on research participants (the protection of the individual criterion) - but trivial amount of harm should not prevent research
 - Research is important to improve health, the environment and quality of life
 - Research results are important in their own right (the research) criterion)
- We need balance between the two criteria
- The discussion or research ethics took off after WWII
- ► The most significant code is the medical Declaration of Helsinki - 1964 & 2013
 - ► Rules from it have been effective in other-research areas as well @ 9/24

Research Ethics Scandals



⁰Source: http://www.evident.net.au

Research Ethics Scandals

Research Ethics

- ► Some famous and some less-known research scandals
- See how they ultimately led to the practice of Ethics Committees
- ► The acts of Nazi Germany are assumed to be the main starting points for Ethics Committees
 - ► Both unethical research and ethical regulations preceded those events though

Research Ethics Scandals

Edward Jenner's Smallpox Vaccine, England, 1776

- ► An 8-year-old child was injected with pus from a cowpox infection deliberately
- Reason: to study their acquired immunity
- ► The research was a great step forward
 - ▶ But it will be unlikely to be approved to be conducted today

Research Ethics Scandals

The Neisser Case, Prussia, 1898

- Clinical trials on serum therapy in patients with syphilis
- Serum from patients with syphilis was injected into those who were admitted for other reasons
 - The patients were not informed + no consent = no informed consent
- Some of these patients contracted syphilis
- ► The tried vaccination for syphilis failed!
- ► This caught public attention

Research Ethics Scandals

The Neisser Case, Prussia, 1898 Cont.

- ► Led to the Minister for religious, educational and medical affair's directive
 - ► All non-therapeutic research must have unambiguous consent
- ► Led also to the 1931 Guidelines for New Therapy and Human Experimentation
 - ► Calls for the necessity of considering the risks involved in research and seeking informed consent
 - ▶ In particular for non-therapeutic research

Research Ethics Scandals

Medical Experimentation in Nazi Germany, 1939-45

- ► A number of horrific experiments conducted in Nazi concentration camps
 - Involuntary sterilisation
 - Subjection to radiation
 - ► Freezing to induce hypothermia
 - Intentionally infecting research subjects with malaria and tuberculosis
 - ► Conducted without the consent of subjects
 - ▶ Resulted in extreme pain, suffering, mutilation and death!

Research Ethics Scandals

Medical Experimentation in Nazi Germany, 1939-45

- ▶ Big controversy arising from the results of these experiments
 - Whether using the results is ethical not to do so does not help the victims
 - ► On the other hand, using the results implies endorsing the gathering of the data
 - Not an issue to ethics committees though they work prospectively, not retrospectively
- ► The Nazi experiments led to the Nuremberg Code of 1947
 - A legal code that labeled Nazi research unethical and but also code for future research
 - ► Also played a role in the development of the Helsinki Declaration in 1964



Research Ethics Scandals

Tuskegee Syphilis Study, United States, 1932-72

- ► A clinical study carried out 1932-72 in Tuskegee, Alabama by the US public health service
- Recruited 400 illiterate African-American men with syphilis, as well as 200 healthy controls
- ► Main aim: to study the natural progression of the disease when left untreated
 - ► Particularly to compare the results with earlier results from European origin subjects
- ► The participants were not told they were a part of a trial
- ► The tests were described to them as "special free treatments"



Research Ethics Scandals

Tuskegee Syphilis Study, United States, 1932-72 Cont.

- During the trial, there was no effective treatment for syphilis
 - ▶ But since 1947, Penicillin had become effective in treating it
 - The subjects were neither informed nor provided penicillin!
 - ► They were even blocked from military conscription which could have given them access for treatment
- ▶ At the end of the experiment, 74 subjects remained alive
- ▶ 40 of their wives had been infected
- ▶ 19 children were born with syphilis which could have been prevented if the men received treatment!
- ► The Tuskegee scandal led to the formalisations of research ethics review in the US

Research: What, Why, How and for Whom?



⁰Source: https://www.uah.edu

Research: What, Why, How and for Whom?

Some Types of Research

- ► Diverse types of research
 - Hypothesis-generating vs hypothesis-testing
 - Qualitative vs quantitative
 - Research to explain why something has happened by showing that it can be explained under a natural law vs research that tries to increase and deepen our knowledge about events, processes or texts
 - From research ethics point of view:
 - Basic research: seeking new knowledge without a particular application in mind - may lead to unexpected/ground breaking discoveries
 - ► Applied & commissioned research: aimed at being of use to the party who initiated or ordered the research, the latter is more driven by the commissioning party

Research: What, Why, How and for Whom?

Some Types of Research Cont.

- ▶ Research ⇒ systematic search for knowledge
 - ► The knowledge must be new not a simple compilation of what is known
- Replicating earlier studies however is research
 - ▶ Replication ⇒ confirms soundness of the finidings
- ► A systemic-critical review and compilation of previous studies is also research
 - ► If it raises our knowledge

Research: What, Why, How and for Whom?

Whv?

- Scientific research is an important element of society
- Basic research to develop new knowledge
- Applied research develop knowledge
 - That can lead to improved clinical diagnostics and treatment in medicine
 - ► To improve production or products
 - Improve planning and production decisions
- The benefits of research extend beyond producing more and new products and jobs
 - ► To promoting critical thinking and better quality of life



Research: What, Why, How and for Whom?

Why?

- Unfortunately, research may have unintended consequences
 - ▶ Used for negative purposes by countries, terrorists or others
- ► A vibrant ethical discourse is necessary to way the benefits with costs
- ► The environment is crucial in determining what type of research is conducted
 - ▶ Commercialisation and patents are emphasised ⇒ basic research will be limited
 - ► Too much focus on basic research ⇒ isolated and elitist environment
- It is important to have balance!



► End of Presentation!