

A Brief Introduction to Research Ethics



Presented by Dr. Emma E. Buchtel, Sept 14, 2022 With thanks to Prof. Dennis M. McInerney's April 2013 HREC presentation

Two goals:

- The Practical question: Before you do research with human participants, the project must be ethically approved. How to get through it?
- The Ethical question: What kinds of things are "ethical problems" in research? How do we fix them?
- This workshop aims to help you be aware of and solve possible ethical issues in research, helping you:
 - Know the basic rights of participants
 - Know how to SOLVE ethical risks (= to minimize risks for participants)
 - Know about the Ethics Review process & how to facilitate

The Practical question:
Process of Applying for Ethics review

What is the purpose of human research ethical review?

Why does research need to undergo review by a Research Ethics Committee? It is not to "ensure" that the research is ethical—this is ultimately the researcher's responsibility.

REC provides an outside, wider, experienced perspective on:

- the potential negative implications/effects of the research for/on the participants,
- any unforeseen consequences of the research on participants or other associated parties, and
- Methods of reducing risk / increasing benefits to participants

Ethical review **helps protect** participants, but also the researchers / the Institute

Also, if your data is collected without the approval of an Ethics Committee, it cannot be used in a thesis or, generally, published in a reputable journal.

The ethics application

- FORM: changes from time to time.
 - Staff & Research Pg students (EdD / PhD / Mphil)
 - -> Online Application https://workflow.eduhk.hk/HREC/
- Taught PG students (MA / MEd / PGDE etc.) & Undergraduate students (BEd, etc.)
- -> Currently: Printed Application Form
- Download the most recent forms from the HREC
- -> Webpage: http://www.eduhk.hk/rdo/human.html
- To fill out the application, first READ the guidelines (BOTH):
- "University's Guidelines on Ethics in Research" for general advice
- "HREC Operational Guidelines and Procedures" (from Procedures page) for specific advice (e.g. types of consent required for different ages)



The application process: Flow

- Staff:
- Submit your online application to the HREC
- · Can be drafted by another person first
- RDO Staff will check for common problems (missing docs, etc.)
- Application reviewed by a) an HREC member, and b) HREC chairperson
- Research Pg students (EdD / PhD / Mphil):
- · Seek endorsement from principal supervisor (PS) before online submission:

 $1) \ draft \ an \ application \ at \ the \ Online \ System \ (save \ it \ but \ not \ submit) \ and \ save \ as \ a \ PDF \ file, \ then \ email \ .pdf \ to \ PS \ for \ PS' \ endorsement;$

2) then, attach an email reply from PS showing endorsement to the online application

- Then, application reviewed by RDO staff & HREC as above
- Taught Pg students (MEd / PGDE etc.):
- · Forms submitted to thesis supervisor for his/her approval
- Then, supervisor submits it to the HOD or HOD's delegate for ethical review & approval (FEHD: Faculty-level review board)
- Undergraduate students (BEd, etc.):
- Submit to thesis supervisor for his/her approval
- Then, supervisor submits it to the HOD / HOD's delegate for ethical review & approval

See "Flow of Application..." at https://www.eduhk.hk/human_hrec/view.php?secid=2551

Time: A major issue!



- To apply for research ethics approval , you need to submit:
 - Application Form for Ethical Review, including open-ended sections describing research, protection of participants & data, etc.
 - Research proposal
 - Questionnaires, interview scripts
 - Consent forms to be given to participants / parents / school (organization)
- After ethics approval given: School/organization approval and parental consent may be required.
 - Signatures from school principal, parents, as well as participants...?

Time: Solutions

- Please submit the Ethics application more than a month before you wish to begin the research
 - Students need to plan even more time, as both the supervisor and approving committees need to find time to review the application
- Questionnaires / Interview scripts: submit the "best draft"
 - Minor changes after the ethical approval may be OK (don't need separate approval) as long as experimental procedures will not change in ethically important ways.
 - For example:
 - do not newly ask any potentially sensitive information of the participants (e.g. drug use; sexual activity; etc.),
 - do not newly recruit children as participants,
 - do not introduce new recruitment procedures that could pressure potential participants to participate
 - do not change anonymity or confidentiality of data (e.g. newly deciding to take videotapes or other recordings)
- When planning your project, you may need to plan time to get organizational & parental consent

When reviewing TPg or UG ethics: Which of these do you focus on?

- Research Merit:
 - Important research questions, excellent methods
- Research Integrity:
 - Honesty, Accuracy, and Objectivity in evaluating and reporting evidence
- Protection of Human Participants:
 - Prioritizing rights of participants over your own selfinterest
 - Right to informed consent; Right to refuse; Right to avoid harm; Right to know what will happen to their data.

Rules of thumb: RESIST improving their research; focus *on preventing harm while the student gets his/her learning experience*; try to have only 1 round of revisions (only ask for 2nd revision if new BIG problems become apparent)

Goal 2 General Ethical Issues in doing Research with Human Participants

A question for you:

Please ANNOTATE: which ones are NOT

- The Human Research Ethics Committee (HREC) has reviewed a study and determined that participating in the study will likely make the participants feel uncomfortable and embarrassed. Could the HREC allow the researchers to begin this study?
 - No; if any aspects of research studies are harmful in any way, HRECs cannot allow them.
 - b. Yes; the HREC examines only whether participants will be in physical
 - Yes; as long as participants are not overly harmed and the research has significant value.

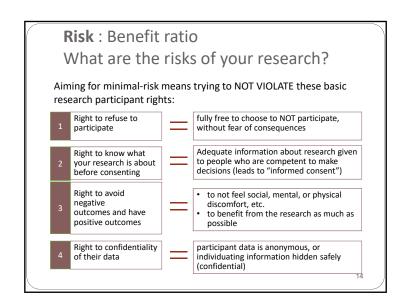
Ethical Research will Balance Risks and Benefits

All research should be designed:

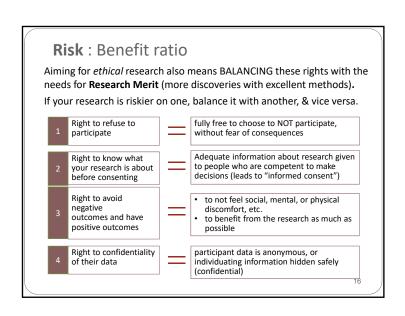
- With a positive purpose in mind and be of benefit to individuals and society
- To avoid harm or risks to participants
- But sometimes some risks are unavoidable!
- Risks should be reduced as much as possible (try to make your research "<u>Minimal Risk</u>") and if risks are unavoidable, risks and benefits should be in balance.
 - E.g. if deception is necessary, are the benefits great enough to outweigh the deception?
- Benefits to participants can be increased, too

Risk: **Benefit** ratio What are the benefits of your research?

- Doing your research WELL can benefit everyone
- Research Merit:
 - Important research questions, excellent methods
- Research Integrity:
 - Honesty, Accuracy, and Objectivity in evaluating and reporting evidence
 - https://grants.nih.gov/policy/research_integrity/what-is.htm
 - For example: If your results do NOT support your hypothesis, you report that, honestly, strictly, and with thoughtful analysis! (Students: It's TOTALLY FINE and YOU CAN STILL GET AN A.)



Minimal risk research means: 1 No excessive to participate (right to refuse) 2 No "Constitution in the research, with no bad consequences 2 No "Constitution in the research, with no bad consequences 2 No "Constitution in the research, with no bad consequences 2 No "Constitution in the research, with no bad consequences 4 Ouestions / methods will avoid embarrassment or discomfort for participants or participants or



How to solve potential ethical issues at all stages of research

- 1. Recruitment of participants
 - How will you find them without violating privacy? How will you ask them to participate without coercing them?
 - Compensation: How much will you be giving them? Is it too much?
- 2. Informed consent and Consent & Information Sheet
 - What do participants need to know so that they can give informed consent? Have you told them everything about compensation, method, risks & benefits, privacy?
 - · Is parental/guardian consent needed? Etc.
- 3. Methodology: Care and protection of participants
 - Could the kinds of questions or activities cause discomfort, embarrassment, loss of reputation, etc? How can you minimize this?
- 4. Privacy and confidentiality of Data
 - How will you anonymize data? If your data will not be anonymous, what promises do you
 make about keeping it confidential?
 - How will you prevent data leakage, esp. individually identifying information? Or, will you
 publicly share data— if so, how to hide individually identifying information?

(Stage 1 / 4) Recruitment

Participants may worry:

How will you find me & persuade me to participate?

Examples of potential issues: Recruitment

- Main concerns: Privacy / confidentiality (4), Right to refuse (1)
- Does how you recruit particular populations make privacy an issue?
- E.g. students with ADHD: Parents don't want you to know...
 - Possible solution: Ask teachers who already know the diagnosis to privately pass consent / information sheets to potential participants
- Are power relations existent and an issue?
 - . E.g. recruiting one's own students; difficult to refuse you
 - Possible solution: Verbal assurance / explanation to participants that this
 is not a school assignment; they have the right to refuse to participate &
 can do so without consequence
 - Possible solution: Make refusal of participation as anonymous / hidden as possible.
- Are you tempting participants too much?
 - E.g. Paying poor participants a lot of money; difficult to refuse
 - Possible solution: Find evidence of what an appropriate payment for time is in that context

(Stage 2 / 4) Consent & Information sheets

Participants may worry:

Before I agree, tell me: what will I do, and why?

Examples of potential issues: Informed Consent

Main concern: Right to know before consenting (2)

Before starting a study, the participant should read an *Information Sheet* and sign a *Consent Form*.

The person signing should be giving *informed* consent: So that they understand **what** they will do and **why** the research is being done.

 Sample editable consent form templates, for participants, parents, and organizations, may be downloadable. But....



DO NOT BLINDLY USE THE TEMPLATE PROVIDED!!!

- …if it is not totally applicable…! (e.g. data anonymous, not confidential; addressed to children instead of parents; written in language participants wouldn't understand)
- Carefully consider if they are suitable for your purpose, and please EDIT.

What should be included in information sheet?

- Participants need to know:
 - What is the purpose of your research?
 - What will they be asked to do as part of your research? (Procedures: What kinds of questions or activities? How long will it take?)
 - Where will the findings and data go later? (Journal? Conference? Etc) Will identifying information be shown?
 - How will their data be stored—will it be anonymous, etc.?
 - What are the **potential risks** of participating in your research?
 - What are the potential benefits? (e.g. is there payment? Or benefits to your academic field, in general?)
 - They also need to be REMINDED that they have the right to halt participation (choose not to participate) at any time

Informed consent from whom?

But: Carefully consider **who** should be informed of an individual's participation

- Who would expect to be informed that the research is happening?
- What if participants are not able to give consent?

Informed consent: from whom?

- Who should be asked for consent, additionally or instead of the participant?
 - Consider: Who can or should give "informed" consent: the participant, a parent/guardian, an organization?
- If your participants are:
- 5-year-olds in a kindergarten
- EdUHK Students, 18 years old
- Some other school's students, 18 years old
- · Adult cancer patients currently in the hospital
- 16-year-olds
- Autistic 16-year-olds
- 16-year-olds, and you'll ask them to do something potentially harmful to them

EdUHK rules about who must give consent:

If taking place in a non-EdUHK site, find out if you need approval (e.g. generally required from school principals)

Age-specific rules: from the "HREC Operational Guidelines and Procedures:"

- (i) For children aged below 9, only signature of their parents/guardians on consent form is required; completion of the task, after verbal explanation of its nature by the researcher, provides implied consent by the child;
- (ii) For children aged 9 to 15, signature of both the children and their parents/guardians on consent form is required; and
- (iii) For adolescents aged 16 to 17, signature of the adolescents on consent form would be required, while consent from their parents/guardians is optional for studies involving [only] minimal risk.

If it is more than minimal risk, parental/guardian approval is required.

(Stage 3 / 4) Methodology

Participants may worry: Will I suffer if I do in this study??

Examples of potential issues: Methodology: Surveys

- Main concern: Avoiding negative outcomes (3)
- Be careful of your wording.
 - Is there possibility of questions being intrusive, inappropriate, offensive?
- Are demographic details appropriate/necessary?
- Are the topics under investigation/measurement appropriate to the participants?
- Are there religious, social, gender, economic, or cultural issues that might make particular questions and demographic details inappropriate?

What kinds of questions would be inappropriate to ask:
University students in Mainland China?
Elementary school students in a class that you teach? Etc

Examples of potential issues: Methodology: Experiments



Is it ethical if you do not reveal the existence of two conditions (in the consent form)?

- Main concern: Right to know about research before consenting (2)
- Is the deception absolutely necessary (for "research merit")?
- What can you do to minimize the negative effect?
- Debriefing; Minimize the deception (don't actively deceive)

Is it ethical if you provide a presumably beneficial treatment to the experimental group but not to the control group?

- Main concern: Right to avoid negative & have positive outcomes (3)
- If unequal benefits accrue (e.g. educational benefits), what can you do to reduce unfariness?
- Control group = waitlist group?
- Note: For very strong benefits (e.g. lifesaving medical interventions), experiment may be ended as soon as benefits are evident, & provided to control group.

(Stage 4 / 4) Data Confidentiality

Participants may worry:

Where will my personal data go-- who will know my answers?

Examples of potential issues: Confidentiality/Data management

- Main concern: Right to confidentiality of data (4)
- Information about data storage should be given to participants, in their Information Sheet.
 - Participants should be told how long you will keep their data, and in what format (identifiable or not, etc.)
 - Personally identifiable data should be kept confidential, and ideally anonymous (= identifiable information destroyed)
 - Security issues related to data must be addressed:
 - How will you anonymize stored data?
 - · Do you even NEED to collect non-anonymous data ...?
 - Where will you store the data: office, password protected computer? Who can get access to the data? How long the data will be kept for?
 - More sensitive data = more sensitive data storage

Examples of potential issues: Confidentiality/Data management

- Especially if data is (initially) not anonymous, how could you help prevent that non-anonymous data from being "leaked" to outsiders? (Think about both on-paper and on-computer data)
 - Have identifiable data on a separate page from the rest of the survey; tear it off and make the connection with codes only
 - Have two separate data files on the computer, connection made with codes only
 - Computers (and, ideally, files) should be password-protected;
 only certain people should be able to see identifiable data

Benefits: How to increase them?

- Main concern: Benefit vs. risks
- You may think about, and tell REC about, the specific benefits that will come about from your research; either for participants directly, or for the world at large
 - Address the benefits in your research proposal (why this study is important to the field, why it is high-quality research, etc...)
 - Do you plan to publish your findings, so as to benefit... (who or what...?)
- Can you report your findings to your participants, so that they may personally benefit from them?
 - E.g. give participants a link to a webpage where you will eventually post the findings...? Collect email addresses to which you will eventually send a soft copy of the final report...?

Final words

Importance of Ethical Clearance

Ethical clearance will help to **PROTECT** the following parties:

- The participants
- The researcher himself/ herself
- The University



Declaration of Ethical Clearance

For any **thesis-like research** (that is not just a class project/exercise):

- Make sure that ethical approval has been obtained BEFORE contacting any participants!
- You MUST NOT proceed with any data collection until ethical clearance has been obtained. This is both an international and UGC requirement.



Research Ethics is all of these:

Increasing benefits

- Research Merit:
 - Important research questions, excellent methods
- Research Integrity:
 - Honesty, Accuracy, and Objectivity in evaluating and reporting evidence

Reducing risks

- Protection of Human Participants:
 - Prioritizing rights of participants over your own selfinterest
 - Right to informed consent; Right to refuse; Right to avoid harm;
 Right to know what will happen to their data.

Thank you!

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