



Det Sundhedsvidenskabelige Fakultet



Ethical considerations, engagement, trust and transparency in HBM

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My background

Lisbeth E. Knudsen., MSc, PhD professor in toxicology has worked with ethics and HBM since 1987 in designing, performing and reporting field studies. Appointed scientific member of the Regional ethics committee and chair of Committee. The chair of the institutional ethics committee. Partner in several EU programs/projects with human samples: NANOTEST, COPHES/DEMOCOPHES, ESBIO, NEWGENERIS, CANCERRISK BIOMARKERS, BIOMODEM, HBM4EU

Ethics advisor in PARC and more



ISSUES of HBM and Ethics

Funding agencies

Ethically sound studies with hypotheses and qualified independent personell securing trust and transparency

Institutions performing the studies

Independent, certified, trusted

Participants

RECRUITMENT on informed basis with written consent

Donating samples (Blood, urine, hair)

Providing personal information by questionnaires and interviews-demographic, lifestyle, health

Engagement, personal interest in individual participation and/or Altruism, confidentiality following the GDPR rules



What is ethics?

- An academic discipline. Ethics is the critical study of the norms that guide our actions.
- Practical skills. Ethics is the practical art of knowing how to apply moral principles in concrete situations
- Value systems. Ethics deals with the core values that guide a person or an organisation on the way to its shared vision
 - *Ethics is the result of our pursuit to systematically reflect on, analyse, and question the norms and values that guide human action.*

Göran Hermerén, President of the European Group on Ethics (EGE)



Principles of European research ethics

- The principle of respect for human dignity
- The principle of utility
- The principle of precaution
- The principle of justice

A moral principle is a general guide of action that provides a standard of relevance or "reasonableness"

A moral principle is applied *prima facie*, i. e. it must be observed unless it comes in conflict with any other, equally pertinent, consideration.



How do you strengthen the ethical perspective?

Conditions:

- The initiative must include all partners and all individual researchers participating in research
- Ethical questions that arise must be addressed with transparency
- The initiative must reflect the genuine desire to foster best ethical practices (no window dressing)
- Recourse to independent expert advice in ethics maybe necessary
- Need for periodical review within the management structure of how ethical issues are dealt with



Ethical issues

Human embryos/foetus

Stem cells, embryos, foetal cells

Human participation: Study persons/tissues

Who, where, how

Informed consent

data privacy,

bio banking

Secondary use

Animal experiments

3Rs Replacement, refinement, reduction

Non EU-countries

Environmental protection and safety

AI



Ethics check list

Informed Consent

Does the proposal involve children?

Does the proposal involve patients or persons not able to give consent?

Does the proposal involve adult healthy volunteers?

Does the proposal involve Human Genetic Material?

Does the proposal involve Human biological samples?

Does the proposal involve Human data collection?

Research on Human embryos/foetus

Does the proposal involve Human Embryos?

Does the proposal involve Human Foetal Tissue/Cells?

Does the proposal involve Human Embryonic Stem Cells?

Privacy

Does the proposal involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?

Does the proposal involve tracking the location or observation of people?



An informed consent form is required in the following cases:

When the research involves:

Patients

Children

Incompetent/Incapacitated persons

Healthy volunteers

Immigrants

Others (i.e. prisoners)

When the research uses/collects:

Human Genetic Material

Biological samples

Personal data



A statement that the study involves research subjects and an **explanation of the purposes of the research.**

The **expected duration of the subject's participation.**

A **description of the procedures to be followed/ of the medicine that is going to be tested**, and an identification of any procedures which are experimental.

A statement that participation is **voluntary.**

Information about who is organising and funding the research.

A description of any reasonably **foreseeable risk, discomfort or disadvantages.**

A description of any **benefits to the subject or to others which may reasonably be** expected from the research avoiding inappropriate expectations.

A disclosure of appropriate **alternative procedures for treatment/diagnosis if any**, that might be advantageous to the subject.



A statement describing the procedures adopted for ensuring **data protection/confidentiality/privacy including duration of storage of personal data.**

A description of how **incidental findings are handled.**

A description of any planned **genetic tests.**

For research involving more than minimal risk, an explanation as to whether there are any **treatments or compensation if injury occurs and, if so, what they consist of,** or where further information may be obtained. Insurance coverage should be mentioned.

A reference to **whom to contact for answers to pertinent questions about the** research and research subjects' rights, and whom to contact in the event of a research-related injury to the subject.

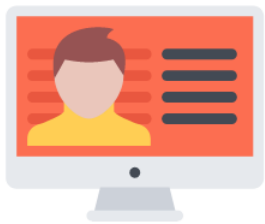
A statement offering the subject the **opportunity to ask questions and to withdraw at any time from the research without consequences.**

An explanation of what will happen with the **data or samples at the end of the research period and if the data/ samples are retained or sent/sold to a third party for** further research.

Information about what will happen to the **results of the research.**



Original survey data with personal ID



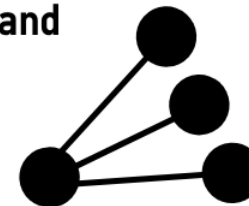
Personal ID replaced with study ID



Key between personal ID and study ID



Coded data



Sharing the data research groups in same institute, same country, different countries

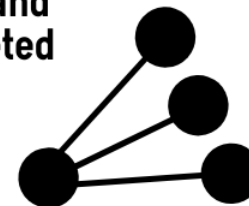
Pseudonymized



Key between personal ID and study ID deleted



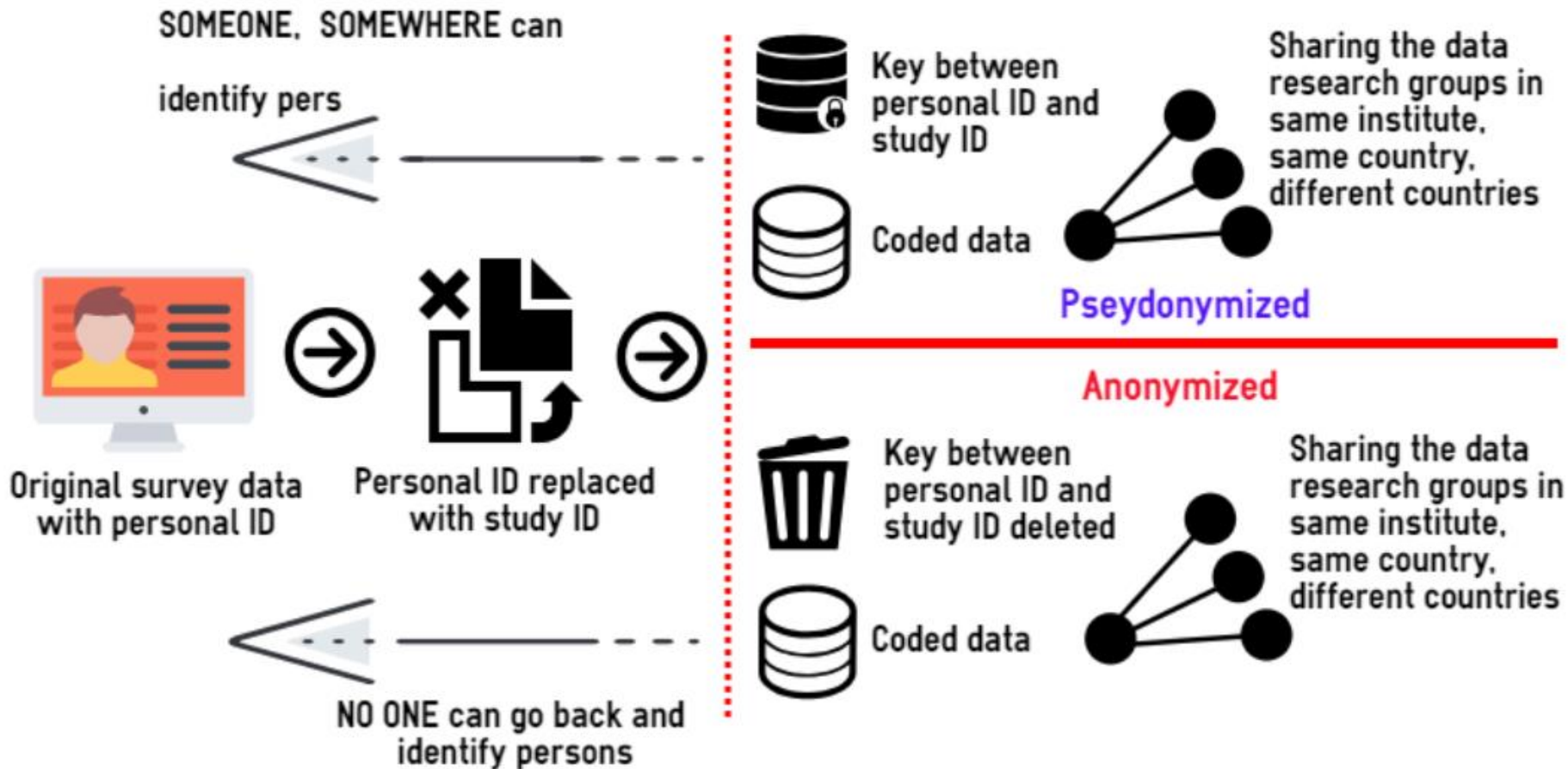
Coded data



Sharing the data research groups in same institute, same country, different countries

Anonymized





Before submission of proposal

- Identification by all partners of actual and potential ethical issues in the research program
- Preliminary reflection on how these will be addressed in the proposal
- Formulation of a policy outlining how ethical issues will be dealt with overall and within each individual workpackages

During funding period

- Implementation of the ethical policy
- Continual feedback from parties about ethical issues
- Periodic review of ethical strategy in view of feedback
- Formulation of updated ethical policy as need be



Study planning



Funding



Study approval



Recruitments



Informed assent/consent



Sampling of biological material



Analyses of biological samples



Verification of results



Communications of results



Follow up

Researchers, Statistician, Communities, Participants representatives

Regulators, Politicians, Industry

Research ethics committees (regional and/or institutional)

Study persons, Parents or other relatives, School teachers, Patients organisations, Nurses, Technicians, Paediatricians, Researchers

Researchers, Technicians, Statistician

Researchers, Paediatricians, Nurses, Technicians, Media

Regulators, Communities, Industry, Participants representatives

Researchers, Paediatricians, Nurses, Technicians, Media



Before initiating a study

Ethics Review (study protocol approval-apply well in advance!)

Reporting study to individual participants- publishing/releasing data

Respect the rights of study participants

Adverse discoveries/Incidental findings



Confidentiality

Informed written Consent

PLACENTA PROJEKT 2011	
<p>Samtykkeerklæring</p> <p>Videnskabelig undersøgelse om passage af kemiske forbindelser mellem mor og barn samt deres tilstedeværelse og tidlige effekter målt i moderkage og blod.</p>	<p>Videnskabelig undersøgelse om passage af kemiske forbindelser mellem mor og barn samt deres tilstedeværelse og tidlige effekter målt i moderkage og blod.</p>
<p>Vi henvender os til dig for at spørge, om vi, efter forløbet, vil anvende din moderkage med vedfæstet arternetvæg med henblik på denne videnskabelige undersøgelse.</p>	<p>Jeg bekræfter at have modtaget ovenstående information og har fået stillet passende vejledning til rådighed. Jeg er informeret om, at det er frivilligt at deltage. Jeg kan således selv trække mig ud af undersøgelsen, uden at det vil påvirke min behandling af mit barn.</p>
<p>Formålet er at undersøge, i hvilket omfang stoffer kan overføres fra mor til barn gennem moderkagen. Det kan disse og som forebyggingsmuligheder i forbindelse med abort, for eksempel bekæmpelse af stoffer i blodet eller reduktion i blodniveauet vil i nogle tilfælde være, som kan give information om forskellige mulige konsekvenser af moderkagen. Dermed vil vi analysere prøver fra moderkagen og arternetvæg for udvalgte stoffer.</p>	<p>JÅ, jeg giver tilladelse til, at min moderkage og arternetvæg vil anvendes til den videnskabelige undersøgelse beskrevet ovenfor.</p>
<p>I forbindelse med disse undersøgelser har vi brug for oplysninger om din alder, om du er første eller fjerdefødsels, om du er gravid og hvorvidt du har haft tidligere fødsler. Disse oplysninger indsamles gennem et spørgeskema. Information om dit navn og fødselsdato vil blive holdt tilbage, så det efter registrering ikke kan identificeres af overførselsmyndigheden.</p>	<p>NEJ, jeg ønsker ikke, at mit navn skal bruges i den videnskabelige undersøgelse.</p>
<p>Deltagelse i undersøgelsen kræver, at du er i stand til at forstå og acceptere, og at du er i stand til at give dit tillæg om at deltage i undersøgelsen - og at du ikke har brug for nogen form for tvungne undersøgelser. Hvis du har brug for nogen form for tvungne undersøgelser, vil du blive tilbudt at deltage i undersøgelsen, hvis du ønsker det.</p>	<p>Navn: _____ København d ____/____/2011</p> <p>Underskrift: _____</p>
<p>Projektet er godkendt af Den Videnskabelige Komité for København og Fødselslægekommissionen under journalnummer: 01-14/03. Den yder økonomisk støtte fra Miljøstyrelsen Bekæmpelsesmidler Fundet samt EU-projektet ReProTera (Development of a novel approach to handle and risk assessment of reproductive toxicity by a combination and application of in vitro toxic and toxic technologies) og NeoCensus (A new European research project on children's health, food and the environment).</p>	<p>Oplysninger, der anvendes til formålet:</p> <p>Fødselsdato: _____</p> <p>Fødselsstedsnummer: _____ modtager: _____ parnummer: _____</p> <p>Barnets køn: _____</p> <p>Barnets vægt: _____ kg</p> <p>Barnets længde: _____ cm</p> <p>Barnets fødsels- og graviditetsuge: _____</p> <p>Moderkagen: vægt _____ g, diameter _____ cm, højde _____ cm</p>
<p>Det er frivilligt, om du vil give tilladelse til anvendelsen af din moderkage til denne videnskabelige undersøgelse. Dit tillæg kan på ethvert tidspunkt - og uden begrænsning, trækkes tilbage, uden at det vil få nogen indflydelse på din behandling af dig og dit barn.</p>	<p>2</p>
<p>Har du spørgsmål angående dette materiale eller foresøger, at du ønsker yderligere oplysninger om dette materiale, kan du kontakte Lisbeth E. Knudsen (Ph.D.) eller Lene Mathiesen (Ph.D.) under følgende telefonnumre eller e-mail: lisbeth.knudsen@ksh.ku.dk eller lene.mathiesen@ksh.ku.dk. Kontakt: Lisbeth E. Knudsen (Ph.D.), Professor, Arbejds- og Miljømedicin, Institut for Fødselslægevidenskab, København University, Tlf: 35 32 76 57</p> <p>Med venlig hilsen</p> <p>Lisbeth E. Knudsen (Ph.D.) Professor, Arbejds- og Miljømedicin, Institut for Fødselslægevidenskab, Københavns Universitet</p> <p>Morten Holstgaard Kliniskchef, Ph.D. Oversættelse af tekst, tlf. 4031 E-mail: morten.holstgaard@ksh.ku.dk Tlf. 35 32 76 53</p>	

