Ethical, Legal and Societal consideration in the design of Canadian Longitudinal Study on Aging (CLSA)

Parminder Raina, Susan Kirkland and Christina Wolfson

McMaster University

BCNAR Vancouver

February 1st, 2007















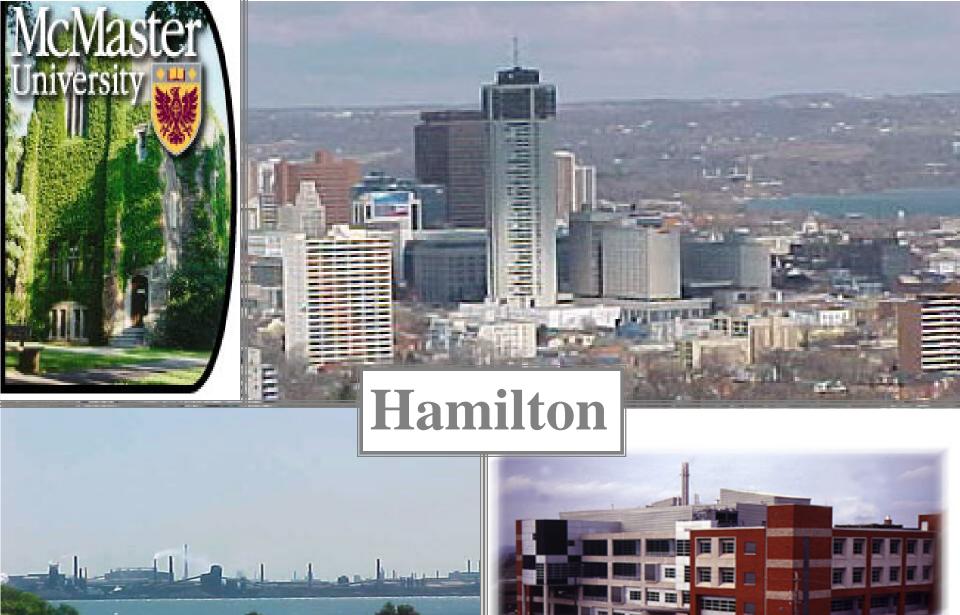














Overview

- Quick and Dirty overview of the CLSA?
- Ethical and legal issues: Balancing act
- Feasibility studies informing the methodological development of the CLSA

Informed consent



The Canadian Longitudinal Study on Aging (CLSA)

- A key component of the Canadian Lifelong Health Initiative, a strategic initiative of CIHR
 - The Canadian National Birth Cohort
 - The Canadian Longitudinal Study on Aging
- More than 160 researchers 26 institutions
- Multidisciplinary biology, genetics, medicine, psychology, sociology, demography, economics, epidemiology, nursing, nutrition, health services, biostatistics, population health

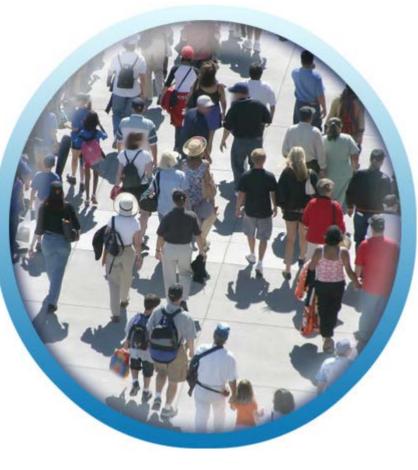




Innovation - Cell to Society

- Mid life to old age
- Quantitative traits
 - Physical
 - Social
 - Psychological
- Gene-environment interactions
- Disease, disability, psychosocial consequences
- Adaptation







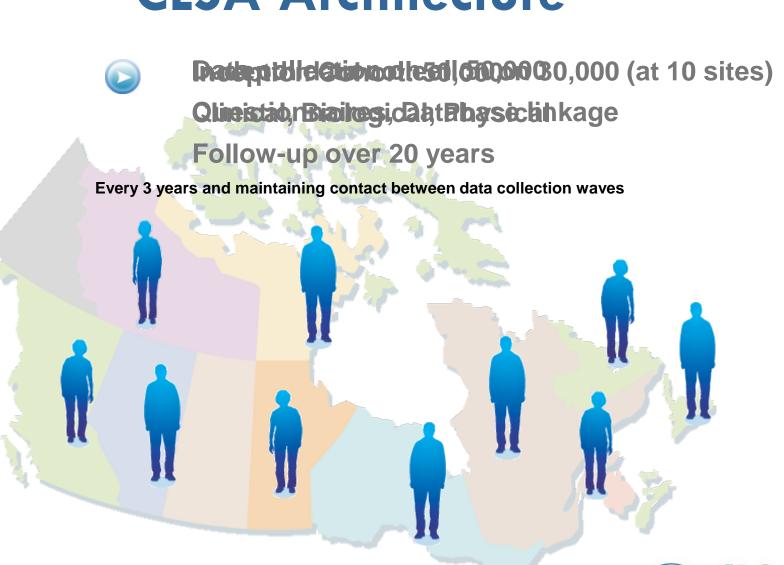
Focus of Measurement Biomedical Psychosocial

- Activities of daily living/disability/injuries
- Frailty/co-morbidities
- Chronic diseases
- Cognitive function
- Mental Health
- Oral health
- Vision, hearing
- Medications
- Health Care Use
- Institutional care
- Genetics/Biomarkers
- Nutrition

- Lifestyle/behaviours
- Social networks and social support
- Values and meaning
- Everyday competence, adaptive functioning, coping
- Personality, emotion, psychopathology
- Work to retirement transitions
- Structural inequalities
- Built environments/physical environment
- Economics (wealth)
- Healthy aging and well being



CLSA Architecture



Data collection: Basic

- Questionnaire data (50,000)
 - Telephone interviews
 - Common core of questions
 - Basic demographics, social, economic, nutrition, lifestyle
- Linkage to existing data bases (50,000)
 - Administrative: physician services, hospitalizations
 - Homecare, community services, mental health services
 - Mortality
 - Environmental, neighbourhood indicators



Data collection: Comprehensive

- Comprehensive assessment (30,000)
 - Additional questionnaire based information via inperson interviews
 - Social, behavioural, economic, nutrition, lifestyle
 - Clinical assessment
 - Medical, neuropsychological, physical measures
 - Blood and urine samples
 - Blood chemistry panel, biomarkers, genetics, genomics



Ethical, Legal and Societal Issues



Ethical and Legal Issues

- Informed consent
 - For 20 year duration
 - For storage of biological samples, clinical, questionnaire based information
 - Genetic and biochemical testing
 - Products from biological samples: cell lines
 - For unspecified research projects in the future



Ethical and Legal Issues

- Informed consent
 - Capacity to consent
 - Cognitive versus other factors that impact capacity to consent
 - Proxy consent
 - Full consent versus staged consent
 - Blanket consent versus issues related to reconsent



Ethical and legal issues

- Informing participants/family physicians
- Risks and benefits
- Linkage with existing healthcare and other data bases
 - Privacy and confidentiality
 - Data ownership issues
- Public access of CLSA data



Feasibility Studies



Phase 1 Studies and progress

- 1. Exploring the acceptability and feasibility of conducting a large longitudinal population-based study in Canada---Complete
- 2. Testing the CCHS as a potential participant recruitment vehicle for the CLSA—Complete
- 3. Feasibility of blood and urine specimen collection and OGTT in private and hospital based clinical laboratories ---Complete
- 4. Feasibility of accessing health care utilization databases-complete
- 5. Return of individualized test results to participants and/or nominated health care providers---complete



Phase 1 Studies and progress

- 6. Development and evaluation of disease ascertainment algorithms ---ongoing
- 7. Telephone cognitive tests as tools for the identification of eligible study subjects in population based research--ongoing
- 8. Assessment of the logistics of data collection methods and data transfer for text material---complete
- 9. Exploring attitudes about mental incapacity and long term participation in the CLSA Protocol ---ongoing
- 10. Improving the informed consent process for complex population based research: finding the optimal information strategy---ongoing

Views of Canadians

Objectives

 To explore Canadians' beliefs and attitudes toward a multi-faceted, long term study on aging

Methods

 Focus groups conducted in six Canadian cities: Vancouver, Calgary, Winnipeg, Hamilton, Montreal, Halifax

Themes

Healthy aging
Benefits to participants
Collection of biological samples, DNA
Unforeseen uses of data
Commercialization

Importance of research
Impact on participant behaviour
Response burden
Data linkage
Privacy & confidentiality

Key Findings

- General willingness to provide blood and urine samples
 - Adds credibility to the study
- Few concerns with respect to privacy and confidentiality
 - Trust that confidentiality would be protected
 - "Only those with something to hide would be concerned about providing a DNA sample"
- Most concerns centered around the use of DNA
 - Information not be shared with insurance companies, third parties
 - Why do you need it
 - How would it be used
 - Who would have access to it
- Private companies should not profit from the study results



Data Linkage with Health Care Utilization Data Bases

Objectives

- Examine barriers and facilitators to accessing and linking with health care utilization databases
- Explore the feasibility of using health insurance registries as the sampling frame for a national study
- Develop best practice guidelines for use of and access to health care utilization data

Methods

 Telephone interviews conducted with P/T Data Stewards (n=20) and P/T Information Privacy Commissioners / Ombudsmen (n=13)

HCU Databases

- Health insurance registration
- Physician claims
- Hospitalization data
- Prescription drug plan databases



Key Findings

- Informed consent: study questions, data accessed, for how long, where stored, how used, who has access, periodic re-consent
- Data access agreement: Provincial/territorial MOH
- Privacy Impact Assessment
- Provincial privacy legislation AND health information legislation is constantly evolving
- Complex process, but possible
- Requires extensive "up front" work with data stewards, managers

Development and Testing of Informed Consent for CLSA



Defining Informed consent

Legally fit to give consent (competence)

 Have the free power of choice (voluntariness)

 Have sufficient knowledge and comprehension of the elements of the proposed research (adequate information)



Components of the CLSA Informed Consent form

- Capacity to consent
- Questionnaire
- Physical examination
- Neuropsychological testing
- Biological sample
- Linkage to databases
- Storing blood for future analysis
- Voluntary participation
- Privacy and confidentiality
- Use of data
- Commercial issues (if any)



Consent Process

- Preferences for presentation of the form
 - One long consent or divide into several components
- Review of the consent form
 - In person at participant's house
 - In person at clinical data collection site
 - Over the phone



Consent Process

- Detailed versus Basic
 - Basic points of the study and participant involvement
 - Basic points followed by a detailed information about each component
- Renewal of consent
- Withdraw from study and future use of data
- Linkage to HCU databases



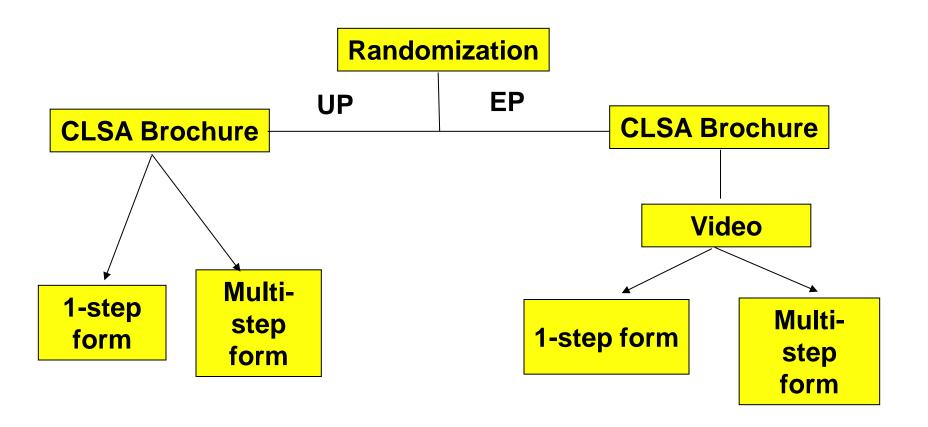
Consent Study

Objectives

- To examine the impact on the level of comprehension and acceptability of different methods of obtaining informed consent
- To determine the best way of presenting the content of the consent form



Optimal Consent study





Ethical, Legal, Societal Issues (ELSI)

- Lawyers
- Ethicists
- Philosophers
- Geneticists
- Epidemiologists
- Social scientists
- Privacy commissioner









Email: CLSA@epid.jgh.mcgill.ca

Website: www.CLSA-ELCV.ca

