

## The Canadian Longitudinal Study on Aging: A Platform for Studying Transitions and Trajectories of Aging and Health

Christina Wolfson, PhD, McGill University, Montreal on behalf of Parminder Raina, PhD, McMaster University, Hamilton Susan Kirkland, PhD, Dalhousie University, Halifax and the CLSA Research Team

### Canadian Longitudinal Study on Aging (CLSA)

- A CIHR strategic initiative
- 50,000 Participants from across Canada
- Aged 45-85 at recruitment
- 20 year follow up with major data collection every 3 years
- More than 160 researchers in 26 institutions





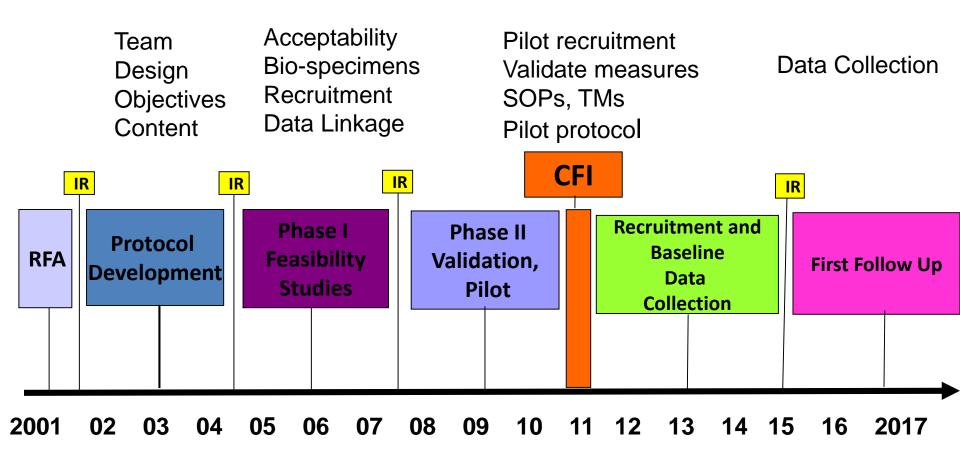
#### The CLSA Research Platform Vision and Scientific Aim

Platform: Infrastructure to enable state-of-the-art, interdisciplinary population-based research and evidenced-based decision-making that will lead to better health and quality of life for Canadians.

Scientific Aim: To study aging as a dynamic process, examining the interrelationships among intrinsic and extrinsic factors from mid-life to end-of-life



## **Timeline and Milestones**







## **Research Team**

#### (Co-PIs, Site PIs, Working Group leaders)

**U Victoria**: Debra Sheets, Lynne Young, Holly Tuokko **UBC**: Max Cynader, Michael Kobor, Theresa Liu-Ambrose SFU: Andrew Wister, Scott Lear U Calgary: David Hogan, Marc Poulin U Manitoba: Verena Menec, Phil St. John McMaster U: Cynthia Balion, Christopher Patterson, Parminder Raina, Lauren Griffith, Harry Shannon U Ottawa: Larry Chambers, Vanessa Taler McGill U: Christina Wolfson, Ron Postuma **U Sherbrooke:** Hélène Payette, Benoit Cossette Dalhousie U: Susan Kirkland **Memorial U:** Gerry Mugford, Patrick Parfrey **U Waterloo:** Mary Thompson, Changbao Wu, Mark Oremus

+ Scientific Working Groups and Co-Investigators www.clsa-elcv.ca



## Major support for the Study and the Platform\*

#### **Development: 2002-2009**

CIHR, FRSQ, Universities

#### Platform: 2009-2014

- CFI infrastructure/equipment
  - CFI + Provinces + Universities and other partners

#### **Operations: 2009-2015**

- CIHR 2009-2015
  - 86% of required funds

#### Analysis of data/biospecimens

No Funding

#### First Follow-up: 2015-20

- CIHR 2015-2020
  - (86%)
  - Maintaining the platform
  - Analysis of selected baseline biomarkers



\*International Scientific Peer Review at every step

#### Infrastructure 1 "Enabling" Units



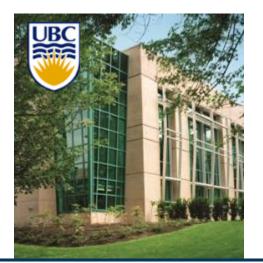


National Coordinating Centre (NCC) Director: Parminder Raina





Biorepository and Bioanalysis Centre (BBC) Director: Cynthia Balion



Genetics and Epigenetics Centre (GEC) Directors: Michael Kobor and Michael Hayden



Statistical Analysis Centre (SAC) Director: Christina Wolfson

Étude longitudinale canadienne sur le vieillissement



## **CLSA Infrastructure** 11 Data Collection Sites



SIMON FRASER UNIVERSITY ENGAGING THE WORLD



a place of mind THE UNIVERSITY OF BRITISH COLUMBIA

> University <u>o</u>₽ Manitoba







uOttawa

Bruyère continuing care

INSTITUT DE RECHERCHE BRUYÈRE RESEARCH INSTITUTE Attiliated with the University of Ottawes





Institut de recherche Centre universitaire de santé McGill Research Institute McGill University Health Centre











### **CLSA Infrastructure** Telephone Interview Centres\*











\*University of Victoria CATI until 2015







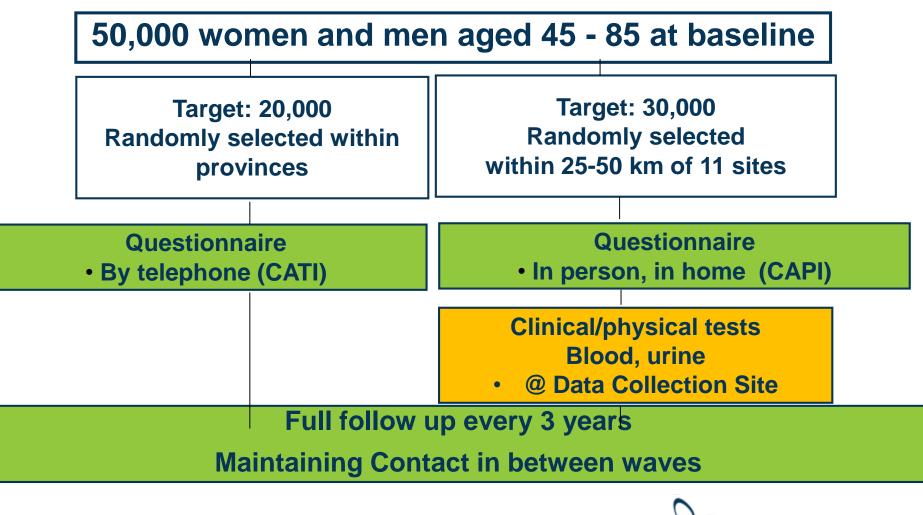




## **Methods**



## **Design Overview**



**Data Linkage** 



## Terminology

- Tracking Cohort
  - Target of 20,000 participants from all 10 provinces, followed through Computer Assisted Telephone Interviews (60 minutes)
- Comprehensive Cohort
  - Target of 30,000 participants living within 25 km (or 50 km as required) of a CLSA Data Collection Site
  - Followed through inhome interviews (60 minute) and physical assessments
- Maintaining Contact Interview
  - All 50,000 computer assisted interview (30 minutes)
  - 18 months after baseline



## **National Scope**



## **Recruitment: Multiple Sampling Frames**

- 1. Partnership with Statistics Canada
  - CCHS 4.2 Healthy Aging Survey Content Development
    - 2006 Census as an area frame to select households
  - Agreement to share contact information
- 2. Partnership with provincial Ministries of Health (MOH)
  - Health Card Registration databases
  - Mailouts, return Consent-to-Contact form
- 3. Random Digit Dialing
  - Pre-recruitment



## **Exclusion Criteria**

#### **Based on CCHS exclusion criteria**

- Residents of the 3 territories
  - i.e. Northwest Territories, Nunavut, Yukon
- Living in an institution
- Living on First Nations Reserves
- Full time members of the armed forces
- Temporary visa holders
- Cognitive impairment
- Unable to communicate in French or English



## **Baseline Content development**

**Scientific Management Team and Content Working Groups** 

#### SMT

- Parminder Raina
- Christina Wolfson
- Susan Kirkland
- Lauren Griffith
- Mark Oremus
- Ine Wauben

#### CWGs

- Clinical Chris Patterson
- Biology Cynthia Balion
- Lifestyle Hélène Payette
- Social Andrew Wister
- Health Services Verena Menec
- Psychology Holly Tuokko
- Methodology –Harry Shannon



## **Content: Tracking Modules**

**60 minute Computer Assisted Telephone Interviews** 

- Sociodemographic
- Lifestyle
- Health
  - General, women's, vision, hearing, chronic conditions,
- Functional Status
- Cognition (recorded)
  - Rey Auditory Verbal LT
  - Mental Alternation Test
  - Animal Naming

- Depression
- PTSD screener
- Satisfaction with life
- Social networks/support
- Caregiving
- Care receiving
- Injuries
- Labour force participation
  - retirement
- Income



## **Content: Comprehensive**

InHome Computer Assisted Personal Interviews

- Includes the content of the Tracking CATI minus the Social module (moved to the DCS)
- Plus
  - Short diet questionnaire
  - Sleep questions
  - Medication (questions plus visual assessment by interviewers)



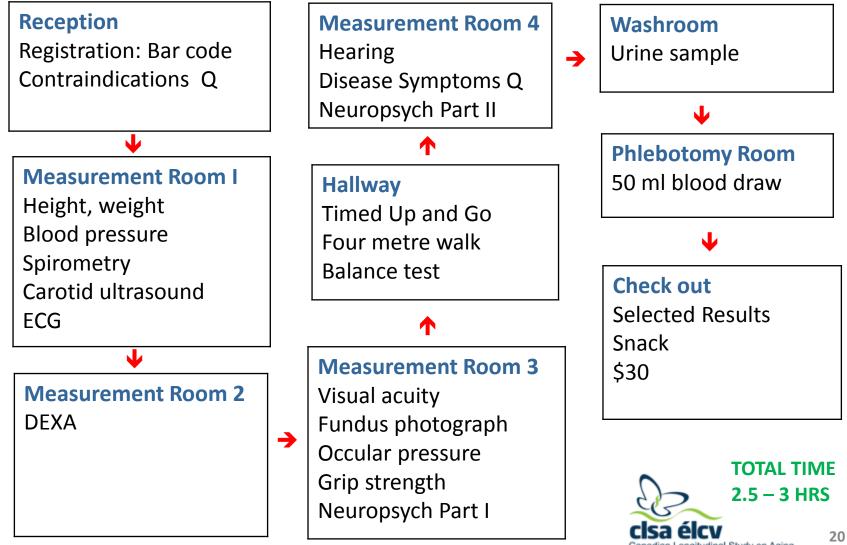
## **Content: Comprehensive** @ the Data Collection Site

- Contraindications questionnaire
- Disease symptoms questionnaire
- Neuropsychological measures
- Social Support
- Social Participation
- Physical Assessments
- Blood/urine specimen





## **@ the Data Collection Site**



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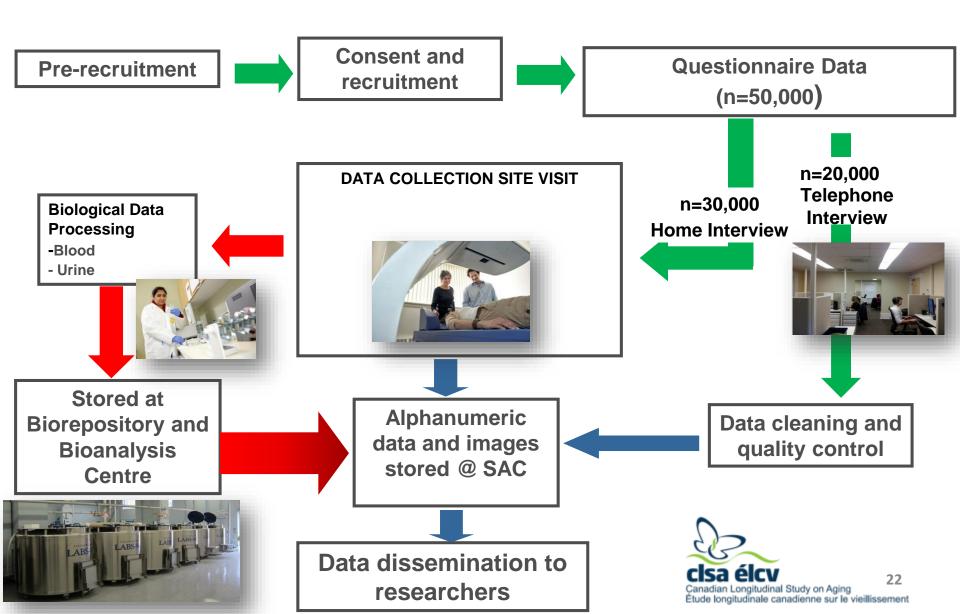
## Content: Maintaining Contact 30 minutes CATI

- Falls
- Pain
- Oral Health
- Health Care Utilization
- Dietary Supplement Use
- Nutritional Risk
- Physical Activity
- Social Inequality
- Online social networking
- Transportation, migration, mobility
- Built Environment
- Wealth

- Parkinsonism (T)
- Medication (T)
- Snoring (C)
- Psychological Distress (C)
- Personality Traits (C)



### **Standardized Paperless Process**



## **Status**

### As of May 1st, 2015



#### Recruitment & Data Collection Update Telephone Interviews Tracking Cohort

- Recruitment of 21,241\* participants, 60 minute telephone interviews every 3 years:
  - ✓ From....Statistics Canada CCHS on Healthy Aging
  - From....Provincial Ministries of Health
  - From....Random Digit Dialing
- Recruitment and baseline data collection are complete!
- Data available for release to researchers<sup>‡</sup>
  - Maintaining contact interviews initiated 2013 (~15,000 completed, ~2% lost)
- First full follow-up begins summer 2015

\*21,241 result of over sampling low SES
‡ cognition data and some open text in second release



#### Recruitment & Data Collection Update Home Interviews and Data Collection Site Visits Comprehensive Cohort

- Recruitment of 30,000 for Home Interviews and Data Collection Site Visits:
   ✓ From...Provincial Health Care Registries
  - ✓ From…Random Digit Dialing
- Baseline data collection 2012 to 2015:
  - In Home Interviews: 30,531 (28,915 viable)
  - DCS visits: 27,864
  - Data release target: Spring 2016
  - Maintaining Contact 10,519 to date (~2% lost)
- First full follow-up begins summer 2015





## "Results" Tracking Only

N=21,241

Acknowledgements to SAC team, Jennifer Uniat, Susan Kirkland, Andrew Wister, Verena Menec and Lauren Griffith



	Count	%	Weighted %
Age			
45-54	5826	27.5	38.2
55-64	6554	30.9	31.2
65-74	4525	21.8	18.8
75-85	4203	19.8	11.8
Sex			
Male	10387	49.0	48.3
Female	10821	51.0	51.7
Language			
English	17457	82.3	75.9
French	3751	17.7	► 24.1
Born in Canada	18486	87.2	84.5
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	Count	%	Weighted %
Province			
British Columbia	2619	12.4	13.8
Alberta	2110	10.0	9.3
Saskatchewan	1388	6.5	2.9
Manitoba	1472	6.9	3.3
Ontario	4722	22.3	38.3
Quebec	3603	17.0	24.7
New Brunswick	1350	6.4	2.4
Nova Scotia	1564	7.4	3.1
Prince Edward Island	1132	5.3	0.5
Newfoundland, Lab	1248	5.9	1.7
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	Count	%	Weighted %
Arthritis	8194	38.9	35.1
Asthma	2344	11.1	11.7
COPD	1433	6.8	5.8
Hypertension	8090	38.2	33.4
Diabetes	3542	16.7	15.1
Heart disease	2189	10.3	9.0
Angina	1149	5.4	4.3
Heart attack	1299	6.2	4.9
Stroke	388	1.8	1.5
Dementia	43	0.2	0.2
Parkinson's, Parkinsonism	78	0.4	0.3
Multiple Sclerosis	141	0.7	0.6
Cancer	3262	15.4 🜔	13.2
Osteoporosis	2008	9.5 <b>ds</b>	ia élcv 8.7

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	Count	%	Weighted %	
Marital status				
Single/Never married	1694	8.0	8.4	
Married/Common Law	14586	68.8	73.0	
Widowed	2355	11.1	7.3	
Divorced	1988	9.4	8.5	
Separated	579	2.7	2.7	
Education				
Less than Secondary	1978	9.3	7.0	
Secondary School	2875	13.6	12.8	
Some Post-Secondary	1622	7.7	7.6	
Post Secondary Degree/ Dipl	14650	69.1	72.2	
Annual Household Income				
Less than \$20,000	1341	6.8	5.5	
\$20,000 - < \$50,000	5841	29,4	23.9	
\$50,000 - < \$100,000	7212	36.3	35.9	
\$100,000 - < \$150,000	3212	16.2	<sup>19.4</sup> clsa élcy	
\$150,000+	2237	11.3	Canadian Longitudinal Study on Aging 15.4 Étude longitudinale canadienne sur le vieillissemer	nt

Count	%	Weighted %	
3972	18.8	20.8	
8115	38.3	38.3	
6249	29.5	28.7	
227	10.5	9.6	
624	2.9	2.7	
11188	53.0	52.1	
432	2.0	1.9	
9492	45.0	46.0	
2068	9.8	9.8	
850	4.0	4.5	
18264	86.2	85.6	
	3972 8115 6249 227 624 11188 432 9492 2068 850	3972       18.8         8115       38.3         6249       29.5         227       10.5         624       2.9         11188       53.0         432       2.0         9492       45.0         2068       9.8         850       4.0	3972     18.8     20.8       8115     38.3     38.3       6249     29.5     28.7       227     10.5     9.6       624     2.9     2.7       11188     53.0     52.1       432     2.0     1.9       9492     45.0     46.0       2068     9.8     9.8       850     4.0     4.5

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## **Data Access**

# Alphanumeric data from 21,241 CLSA participants who completed 60 minute CATIs



### Data Access Steps Tracking Data Only

Application process via CLSA DataPreview portal

- 1. Administrative Review
- 2. Data and Sample Access Committee Review
- 3. Recommendation to Scientific Management Team
- 4. Notification of applicant
  - Steps 1 to 4 take 3-4 weeks
- 5. CLSA Access Agreement preparation and signatures
  - Institutional review/signature timing is unpredictable
- 6. Raw data provided to approved investigator
  - Step 6 takes 5 working days following completion of step 5





## **Data Access Continued**

- Costing
- Cost Recovery (for alphanumeric data only)
  - a. \$1,000 for a straightforward alphanumeric dataset
  - b. No cost for data for graduate student theses
  - c. One free dataset for postdoctoral fellows
  - d. No cost for data requests to conduct methodological projects that will directly benefit the CLSA
- DSAC Meetings 2015
  - February, April, June, September, December
- Application deadlines
  - March 23<sup>rd</sup>, May 15<sup>th</sup>, August 14<sup>th</sup>, November 16th

## **DataPreview Portal** https://datapreview.clsa-elcv.ca/

CLSA DataPreview Portal   ×	
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💭 CLSA Overview 🗸 Datasets Access - FAQs Contact Us CLSA Main Page	Sign in

#### **CLSA DataPreview Portal**



Welcome to the DataPreview Portal for the Canadian Longitudinal Study on Aging (CLSA)! The CLSA data and biological samples are available to approved Canadian and international public sector researchers, with no preferential or exclusive access for any individual. As you navigate the site you will find information about the application process and requirements for data and sample access. If you are new to using the portal we recommend you begin by reading the Frequently Asked Questions.



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## **DataPreview Portal**

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Home		
Datasets		
A Canadian Longitudinal Study on Aging (CLSA) dataset holds and describes variables collected from participants at each wave of data collection. The variable search tool enables researchers to locate items of interest within all available data collected from CLSA participants.	Variables (June 2014) Variables currently available in the first wave of the data release, with filtering and search options.	
variables collected from participants at each wave of data collection. The variable search tool enables researchers to locate items of interest within all	Variables currently available in the first wave of the data release, with	

#### **Q** Questionnaire

Baseline 60-minute Telephone Interview questionnaire (Tracking).

#### Study design

Study design of the Canadian Longitudinal Study on Aging (Tracking participants).



# **DataPreview Portal**

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Current search Search found 1000 variables	Home / Datasets		
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Tracking - Baseline Interview (1000)	variables		
DISEASES HISTORY AND RELATED HEALTH PROBLEMS	Help: To obtain all the variable	es contained in a CLSA questionnaire module, type t	he two- or three- letter module prefix
Injury, poisoning and certain other consequences of external causes (102)     Neoplasms (42)     Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (14)		phic variables) into the full-text search box.	
Symptoms and signs involving cognition, perception, emotional state and behaviour (14)	Name	Label	Dataset
Diseases of the circulatory system (10) Show more	startdate	Date and time at start of interview	Tracking - Baseline Interview
MEDICAL HEALTH INTERVENTIONS/HEALTH	startlanguage	Language at start of interview	Tracking - Baseline Interview
Physical/Physiological therapeutic interventions	AGE_NMBR_TRM	Age (years)	Tracking - Baseline Interview
(3)	SEX_ASK_TRM	Sex	Tracking - Baseline Interview
MEDICATION     Medication Intake (7)	SDC_COB_TRM	Country of birth	Tracking - Baseline Interview
<ul> <li>Genito urinary system and sex hormones</li> <li>(7)</li> </ul>	SDC_COB_OTSP_TRM	Country of birth other, Specify	Tracking - Baseline Interview
▼ REPRODUCTIVE HEALTH AND HISTORY	SDC YACA YR TRM	Year arrival in Canada	Tracking - Baseline Interview
Menopause (2) Number of children (1)	SDC_ETHN_CA_TRM	Parental ethnic background Canadian	Tracking - Baseline Interview
Pregnancy (1)			



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Name	Label	Dataset
HRG_HRG_TRM	Hearing rating	Tracking - Baseline Interview
HRG_NOIS_TRM	Hearing difficulty with background noise	Tracking - Baseline Interview
HRG_USE_AID_TRM	Uses Hearing aid	Tracking - Baseline Interview
HRG_USE_OT_TRM	Uses Another hearing aid	Tracking - Baseline Interview
HRG_USE_DK_NA_TRM	Type of hearing aids used, Don't know	Tracking - Baseline Interview
HRG_USE_REFUSED_TRM	Type of hearing aids used, Refused to answer	Tracking - Baseline Interview
HRG_USE_OTSP_TRM	Uses Another hearing aid, Specify	Tracking - Baseline Interview

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Name	Label	Missing	Good	(31.4%)
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2	Very good		Fair	2238 (10.5%)
3	Good		Poor	423
4	Fair			(2%)
5	Poor		[DO NOT READ] Don't know/No answer	19
8	[DO NOT READ] Don't know/No answer	~	[DO NOT READ] Refused	0
9	[DO NOT READ] Refused	· ·	All	21241

### Data and Sample Access Committee (Inaugural and Interim)

- Christina Wolfson (Chair)
- Cynthia Balion: CLSA Biorepository and Bioanalysis Centre, McMaster
- Max Cynader: CLSA Lead Site Investigator, UBC
- Pierrette Gaudreau: CLSA Co-Investigator, Université de Montréal
- Joan Lindsay: Canadian Study of Health and Aging Investigator, Epidemiologist, Health Surveillance and Epidemiology Division, PHAC
- Verena Menec: Lead Health Services Working Group.CLSA Lead Site Investigator. University of Manitoba
- Margaret Penning: Past lead, CLSA Social Health Working Group, University of Victoria
- Brent Richards: CLSA Co-Investigator, McGill University
- Harry Shannon: Lead Methodology Working Group, McMaster University
- CIHR representative ex officio
- Jennifer Uniat: Statistical Analysis Centre Manager



### **Approved Applications**

Applicant Title	Location
Consumer Product related senior falls and injury risk assessment	Ontario
CLSA Neurological conditions initiative (CLSA-NCI)	Quebec
Multiple chronic conditions in relation to disability and social participation	Ontario
The association between hearing loss and social function in older Canadians	British Columbia
The Veterans' Health Initiative within the CLSA (CLSA-VHI)	Quebec
Physical functioning and disability	Ontario (Postdoc)
Labour force participation: Retirement Transitions, Expectations and Planning	Ontario (Student)
Who is at risk of social isolation and loneliness?	Manitoba
Companion animals and the aging population	Alberta (Student)
Factorial invariance of the CES-D	Saskatchewan
The development of normative data and comparison standards for the comparison measures employed in the CLSA	British Columbia
Describing social networks and caregiver capacity in Nova Scotia	Nova Scotia
Menopause and mental well-being	Ontario (Postdoc)
Longterm exposure to ambient air pollution and effects on health	Ontario

18 applications received

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# Linking CLSA Data Work in progress

- Linkage is a key CLSA research strategy
  - Enormous potential for collection of information that is difficult to get from participants due to time, accuracy limitations; unknown to participants
- Types of databases
  - Individual level administrative provincial health databases (priority)
  - Disease registries
  - Population level databases of community characteristics, climate, pollution
  - Individual level economic characteristics



### \*Selected Collaborations and Partnerships

- Canadian Consortium on Neurodegeneration in Aging (CCNA)
- Veterans Affairs Canada
- Canadian Institute for Military and Veteran Health Research
- LegerMarketing
- Health Charities Coalition of Canada
- Public Health Agency of Canada
- Health Canada
- Ontario Minister of Transport
- Statistics Canada
- Neurological Health Charities Canada
- CARP

- Maelstrom Research
- Calgary Laboratory Services
- Ontario Brain Institute
- Vocantas Inc.

. . . . . . . . .

Canadian Mortgage and Housing Corporation

Cisa élcv Canadian Longitudinal Study on Aging Etude longitudinale canadienne sur le vieillissement

## First Follow up



### First Follow Up (2015-2018)

- 1<sup>st</sup> follow up Tracking (June 2015 to May 2018)
  - Re-contacting 21,242 participants for their follow up telephone interviews
    - Planning underway
- 1<sup>st</sup> follow up Comprehensive (June 2015-May 2018)
  - Re-contacting 30,000 participants for their follow up inhome interviews and DCS visits
    - Planning underway



### **First Follow Up - New Content**

- Child maltreatment\*
- Elder Abuse\*
- Epilepsy
- Hearing
- Arterial stiffness
- Decedent information
  - date and cause of death, trajectory of functional decline, residential transitions, health care utilization in 3 months prior to death
- Workability
- Subjective cognitive decline
- Transportation\*
- Health care use
- Preventive health behaviours



\*External funding

### First Follow-up Additional Considerations

- Changing circumstances
  - Moving
  - Cognitive impairment
  - Physical impairment
  - Sensory impairment



## **Governance and Advice**



- Scientific Management Team
- International Scientific Advisory Board
- CLSA Advisory Council
- Knowledge Translation and Communications Cttee
- Training and Research Capacity Cttee
- Data and Sample Access Committee
- Ethical, Legal, Social Issues Advisory Committee (CIHR)

# Take Home Messages

- The platform is up and running
- The data and biospecimens are being collected
- Alphanumeric data on more than 20,000 participants from across Canada are now available
- These data are free for student thesis research
- Visit the website https://datapreview.clsa-elcv.ca/
- Apply now!



# Acknowledgements CLSA Montreal



#### Data Collection Site

- Josee Mayer(Manager)
- Katya Lopez
- Claudia Greco
- Sanjivlall Balgobin
- Jessica Noseworthy
- Shannon Sinclair
- Roselene Baltus

#### In home Interviewers

- Amy Striemer
- Christina DelGaudio
- Claudia Greco
- Liliane Mefanche
- Elizabeth Grou

- Statistical Analysis Centre
  - Isabel Fortier (Assoc Director)
  - Jennifer Uniat (Manager)
  - Bin Zhu (Statistician)
  - Sarah Youssef (Data Curator)
  - Khaled Boulsaien
  - Caterina DeLeo (Research assistant)
- Translation
  - Marie-Eve Veilleux (Coordinator)
  - Laurie Torres
- Administration
  - Karen Zabowski



Transforming Everyday Life into Extraordinary Ideas



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