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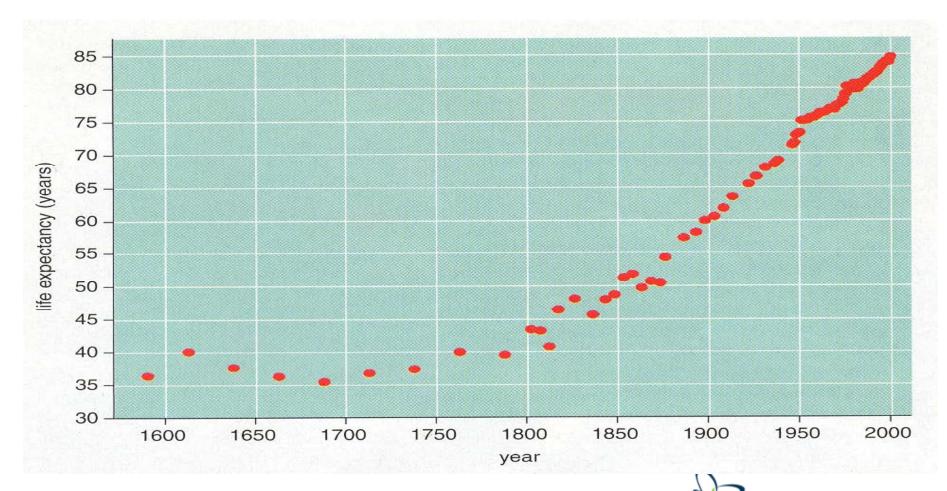


### Population Aging in Canada



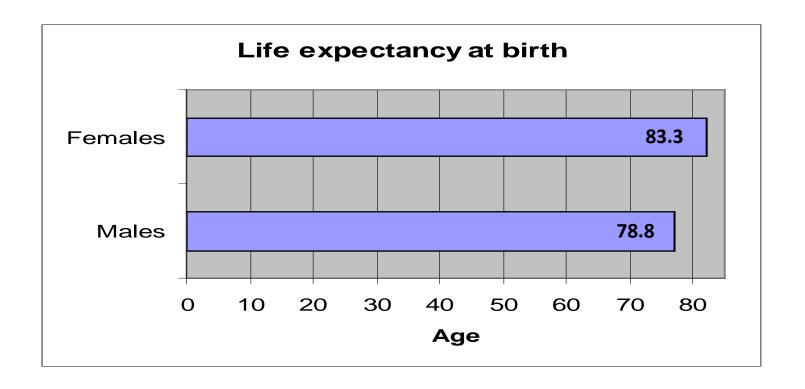
- Canadians are living longer and older people are making up a larger share of the population
- 1 in 6 Canadians (16%) are 65 or older
- By 2025 1 in 5 (20%, 8M) will be over 65

# Life expectancy continues to increase by about 2 years per decade



# Life expectancy

#### **Statistics Canada**



At age 65: Women 21.6 years (86.6)

At age 65: Men 18.5 years (83.5)



## Challenge: Live long AND well

#### Need to shift our focus:

- Mortality
- Morbidity
- Longevity



- Ability/Disability
- Well being
- Quality of life
- Autonomy/Independence





# The Canadian Longitudinal Study on Aging (CLSA)



- Team of 3 principal investigators, more than 160 coinvestigators from 26 institutions
- Involves experts from a wide range of disciplines biology, genetics, medicine, psychology, sociology, economics, epidemiology, nutrition, health services
- Largest study of its kind to date in Canada
- An epidemiologist's dream!



### Design Overview

50,000 women and men aged 45 – 85 living in the community at baseline

Tracking (20,000)
Randomly selected
10 provinces

Comprehensive (30,000)
Randomly selected
25-50 km of 11 sites in 7 provinces

Questionnaire
• By telephone (CATI)

QuestionnaireIn person, in home (CAPI)

Physical Assessments
Blood, Urine
At Data Collection Site

20 year study: Full follow up every 3 years, maintaining contact in between

**Data Linkage** 



# National Scope Representative Sampling Frame



# CLSA covers a wide range of aspects relevant to aging



- DEMOGRAPHIC
- Education
- Marital status
- Ethnicity
- HEALTH BEHAVIOURS
- Smoking, alcohol
- Nutritional risk
- Food frequency
- Physical activity
- Health care utilization
- Medication use
- Supplement use
- Sleep
- Consumer products (assistive devices)
- HEALTH STATUS
- General health
- Women's health

- Chronic conditions, symptoms
- Oral health
- PHYSICAL
- Injuries, falls
- Mobility
- Pain, discomfort
- Functional status
- ADL, IADL
- Life space index
- PSYCHOLOGICAL
- Cognition—Executive function, memory, psychomotor speed
- Depression
- Mood
- Psychological distress
- Veteran identifier
- Satisfaction with life

- PTSD
- SOCIAL
- Social networks
- Social support
- Social participation
- Online communication
- Social inequality
- Care receiving
- Care giving
- Retirement status
- Labour force participation
- Retirement planning
- Transportation
- Mobility, Migration
- Built environments
- Home ownership



#### **CLSA Data Collection**

#### **Data Collection Site**

#### **Physical Assessments:**

- Height, Weight, BMI
- Bone Density, Body Composition, Aortic Calcification
- Blood Pressure
- ECG
- Carotid Intimal-Medial Thickness
- Pulmonary Function
- Vision & Hearing
- Performance testing



#### **Cognitive Assessments:**

- Neuropsychological Battery
  - Memory
  - Executive function
  - Reaction time





# What you don't get to see...



### Data and Biospecimen Access

#### Fundamental tenets:

- The rights, privacy and consent of participants must be protected and respected at all times
- The confidentiality and security of data and biospecimens must be safeguarded at all times
- CLSA data and biospecimens are resources that will be used optimally to support research to benefit all Canadians
- Available to researchers at public institutions by applying to the CLSA Data and Sample Access Committee





### Milestones

- Recruited 51,338 participants
- Baseline data available for use by researchers
- Will finish the first follow up in Spring 2018
- 99 projects approved to date to use the CLSA data



### The CLSA includes....

- Veterans
- Aboriginal peoples
- Francophone population
- Ethnic groups
- Urban and rural populations
- People living with chronic diseases
- Caregivers
- Retirees



# Interesting facts about CLSA participants...

- 19% chose to be interviewed in French
- 84% live in a house
- 46% have a pet
- 93% voted in the last election
- 16% were born outside of Canada
- 23% use an assistive device for hearing, vision, mobility
- 40% say their health is excellent, 20% say their health is very good, 30% say their health is good, 10% say their health is fair or poor
- 86% are satisfied with their life



# CLSA Research Team Operations Committee and Scientific Leads



### **CLSA Funders and Partners**



















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Anciens Combattants Canada



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but we couldn't do it without our participants.

#### **THANK YOU!**



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