Melbourne Collaborative Cohort Study [MCCS]

**GENERAL INFORMATION**

<table>
<thead>
<tr>
<th>Name</th>
<th>Melbourne Collaborative Cohort Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acronym</td>
<td>MCCS</td>
</tr>
<tr>
<td>Last update</td>
<td>09/11/2013</td>
</tr>
</tbody>
</table>

**Principal investigators**

- Gianluca Severi (Dr / Deputy Director, Cancer Epidemiology Centre)
- English Dallas (Prof / Director, Centre for MEGA Epidemiology)
- Giles Graham (Prof / Director, Cancer Epidemiology Centre)

**Contact**

- Allison Hodge (Research Coordinator-Core Programs)
  - Phone: +61 3 9635 5063
  - Email: allison.hodge@cancervic.org.au

**Website**


**Funding agencies**

- The Cancer Council Victoria
- National Health and Medical Research Council, Australia
- VicHealth

**OBJECTIVES**

The main objective is to determine whether diet and other lifestyle factors affect the risk of chronic disease.

**Research Focus**

- Broad approach with no specific target of interest (study built as an infrastructure for a broad range of unspecified scientific activities/questions).
- Target specific questions of interest (predefined scientific targets like, cardiovascular diseases, social environment, specific health trajectories etc.) (Chronic disease, cancer, prostate cancer, breast cancer, bowel cancer, colorectal cancer, cardiovascular disease, type 2 diabetes, diet, lifestyle, genetics (Greek, Italian, southern European))

**METHODS**

<table>
<thead>
<tr>
<th>General design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study design</td>
</tr>
<tr>
<td>Type of participants</td>
</tr>
<tr>
<td>Supplementary informations</td>
</tr>
<tr>
<td>Target or final number of participants</td>
</tr>
<tr>
<td>Target or final number of DNA</td>
</tr>
</tbody>
</table>

**Participant selection / Characteristics of the population**

**Selection criteria**

- Age: Minimum: 40 years  Maximum: 69 years
- Country of residence: Australia (Melbourne)
- Ethnic origin: (About 30% of the cohort are southern European migrants to Australia who were deliberately over-sampled to extend the range of lifestyle exposures and to increase genetic variation.)

**Data Sources**

<table>
<thead>
<tr>
<th>Cross-sectional</th>
<th>Longitudinal follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Questionnaires to participants/respondents</td>
<td>YES</td>
</tr>
<tr>
<td>Direct physical measures</td>
<td>YES</td>
</tr>
</tbody>
</table>
Biological samples

<table>
<thead>
<tr>
<th>Sample management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological samples</td>
</tr>
<tr>
<td>✓ Blood</td>
</tr>
<tr>
<td>✓ Cord blood</td>
</tr>
<tr>
<td>✓ Saliva</td>
</tr>
</tbody>
</table>

Genome-Wide Association (GWA) analyses

✓ Already or currently generating GWA data. Approximate number of participants: 200

GOVERNANCE

Allow access to data or samples to external researchers

✓ Data (questionnaire-derived, measured...)

✓ Biological samples

STATUS

Current status

<table>
<thead>
<tr>
<th>Phase</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation phase/Pilot</td>
<td>1985</td>
<td>1990</td>
</tr>
<tr>
<td>Baseline recruitment / initial data collection</td>
<td>1990</td>
<td>1994</td>
</tr>
<tr>
<td>Follow-up of participants</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Supplementary informations

Participants were followed up between 1997-2000 and then again 2003-2006. This study continues with an end date as yet undecided.

Current number of participants recruited | 41514

Current number of collected DNA samples | 41514

COMMENT

The Melbourne Collaborative Cohort Study is also known as Health 2000 and Health 2020.
Questionnaire

Food Frequency Questionnaire version 1

This Catalogue was archived on: 2013-12-09. Information included in this Catalogue is for informational purposes only.

General Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Food Frequency Questionnaire version 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last update</td>
<td>02/27/2009</td>
</tr>
<tr>
<td>Version or reference year</td>
<td>Food Frequency Questionnaire version 1, 1990-1994</td>
</tr>
<tr>
<td>Phase</td>
<td>Baseline</td>
</tr>
<tr>
<td>Year interval</td>
<td>1990 to 1994</td>
</tr>
<tr>
<td>Supplementary informations</td>
<td>Online also referred to as &quot;Health 2000 Answer Sheet: Eating Habits&quot;</td>
</tr>
</tbody>
</table>

Questionnaire owner

Cancer Epidemiology Centre, Cancer Council Victoria

Contact

Cassandra Quick (Project Manager)
Cancer Council Victoria
Carlton 3053
Phone: +61 3 9635 5164
Email: Cassandra.Quick@cancervic.org.au

Utilization conditions

Version 1 of the questionnaire is available by contacting us. Since baseline we have updated this questionnaire and version 2 is currently available from the Cancer Council Victoria website on a fee-for-service basis. It is called the Dietary Questionnaire for Epidemiological Studies (DQES version 2) see: http://www.cancervic.org.au/about-our-research/cancer-statistics/nutritional_assessment_services/

References


Methods

<table>
<thead>
<tr>
<th>Legend</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

Respondent

- Participant
- Proxy
- Other (Participant's spouse occasionally provided information about participant's diet where appropriate)

Administration environment

- Over the phone
- Hospital, clinic, university or recruitment center
- Respondent / Proxy residence

Administration mode

- Auto administered
- Auto administered with face to face validation by trained personnel
- Administered by trained personnel / Physician

Administration format

- Paper questionnaire
- Computerized

Administration language

- English
- Greek
- Italian

Documents

Available Format
- Adapted questionnaire
- Baseline Eating Habits
NOTICE: HTML document format may differ slightly from the actual questionnaire. Please refer to the original PDF document for exact reproduction.

### General Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Food Frequency Questionnaire version 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Question Blocks</td>
<td>13</td>
</tr>
</tbody>
</table>

### Questionnaire and Question Block List

Click on the to see the block of questions related to a domain or a group of domains.

- **Block 1**
  - Life Habits/Behaviours / Nutrition / Nutritional Behaviours and Perception of Nutritional Habits

- **Block 2**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Sweets, Baked goods
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Fat Intake

- **Block 3**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Fat Intake
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Beverages (other than water or alcohol)
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Milk products

- **Block 4**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Milk products
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Caffeine
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Beverages (other than water or alcohol)

- **Block 5**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Salt and Food Supplement

- **Block 6**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Salt and Food Supplement

- **Block 7**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Salt and Food Supplement
  - Health Information / Medication Intake (ATC/DDD) / Various

- **Block 8**
  - Physical Environment / Environmental exposures / Physical environmental exposures / Radiation (ionizing and non ionizing)
  - Body structures / Skin

- **Block 9**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Sweets, Baked goods
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Cereals, Bread, Starches

- **Block 10**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Milk products
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Meat, Eggs, Fish and Alternatives
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Fat Intake

- **Block 11**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Meat, Eggs, Fish and Alternatives

- **Block 12**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Vegetables and Fruits
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Beverages (other than water or alcohol)

- **Block 13**
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Sweets, Baked goods
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Caffeine
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Beverages (other than water or alcohol)
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Salt and Food Supplement
  - Life Habits/Behaviours / Nutrition / Food intake and Frequency / Vegetables and Fruits
Melbourne Collaborative Cohort Study Lifestyle Questionnaire

This Catalogue was archived on: 2013-12-09. Information included in this Catalogue is for informational purposes only.

General Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Melbourne Collaborative Cohort Study Lifestyle Questionnaire</th>
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</thead>
<tbody>
<tr>
<td>Last update</td>
<td>03/17/2010</td>
</tr>
<tr>
<td>Phase</td>
<td>Baseline</td>
</tr>
<tr>
<td>Year interval</td>
<td>1990 to 1994</td>
</tr>
<tr>
<td>Supplementary informations</td>
<td>Only one version of the questionnaire was used</td>
</tr>
</tbody>
</table>

Questionnaire owner

Cancer Epidemiology Centre, Cancer Council Victoria

Contact

Damien McCarthy (Data Management Coordinator)
Cancer Council Victoria
Carlton 3053
Phone: +61 3 9635 5211
Email: Damien.McCarthy@cancervic.org.au

Utilization conditions

None, but we would like to be informed if this questionnaire is used

Information on validity

Validated questions were used where available

References


Methods

Respondent

✓ Participant
✗ Proxy

Administration environment

✗ Over the phone
✓ Hospital, clinic, university or recruitment center
✗ Respondent / Proxy residence

Administration mode

✗ Auto administered
✓ Auto administrated with face to face validation by trained personnel
✓ Administred by trained personel / Physician

Administration format

✓ Paper questionnaire
✗ Computerized

Administration language

English
Greek
Italian

Documents

Available Format

- Adapted questionnaire
- Baseline Attendance
- Baseline English Lifestyle Qx
- Baseline Feelings

NOTICE: HTML document format may differ slightly from the actual questionnaire. Please refer to the original PDF document for exact reproduction.
### Questionnaire and Question Block List

Click on the link to see the block of questions related to a domain or a group of domains.

<table>
<thead>
<tr>
<th>Block 1</th>
<th>Sociodemographic Characteristics / Age/Birth Date / Subject age / birth date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sociodemographic Characteristics / Ethnicity/Race</td>
</tr>
<tr>
<td></td>
<td>Sociodemographic Characteristics / Gender</td>
</tr>
</tbody>
</table>

| Block 2 | Sociodemographic Characteristics / Residence / Residential History |

| Block 3 | Sociodemographic Characteristics / Household Status / Subject Household Status |

| Block 4 | Sociodemographic Characteristics / Residence / Current Residence |

| Block 5 | Sociodemographic Characteristics / Household Status / Structure of the Household |

| Block 6 | Social Environment / Familial and social environment |

| Block 7 | Socioeconomic Characteristics / Education level / Subject education level |

| Block 8 | Socioeconomic Characteristics / Working status / Subject Working status/history |

| Block 9 | Sociodemographic Characteristics / Age/Birth Date / Subject's Relatives Age / Birth Date |

| Block 10 | Health Information / Familial Disease History (ICD10*) / Diseases of the circulatory system |
|          | Health Information / Familial Disease History (ICD10*) / Endocrine, nutritional and metabolic diseases |
|          | Health Information / Familial Disease History (ICD10*) / Neoplasms |

| Block 11 | Sociodemographic Characteristics / Kinship |

| Block 12 | Health Information / Reproductive history / Number of children |

| Block 13 | Sociodemographic Characteristics / Kinship |

| Block 14 | Body structures / Anthropometric structures / Anthropometric measures / Weight |

| Block 15 | Health Information / Individual Disease history / Diseases of the circulatory system |
|          | Health Information / Individual Disease history / Endocrine, nutritional and metabolic diseases |
|          | Health Information / Individual Disease history / Diseases of the musculoskeletal system and connective tissue |
|          | Health Information / Individual Disease history / Diseases of the respiratory system |
|          | Health Information / Individual Disease history / Diseases of the genitourinary system |
|          | Health Information / Individual Disease history / Neoplasms |

| Block 16 | Life Habits/Behaviours / Tobacco use |

| Block 17 | Life Habits/Behaviours / Alcohol use |

| Block 18 | Life Habits/Behaviours / Physical activity / Activities/Exercise and Frequency |

| Block 19 | Health Information / Women's health / Menstruation |

| Block 20 | Health Information / Women's health / Breast feeding |
|          | Health Information / Reproductive history / Number of children |
|          | Health Information / Reproductive history / Parity/Gravidity |

| Block 21 | |
http://localhost:8080/catalogue.htm?studyId=179

- Health Information / Medication Intake (ATC/DDD) / Genito urinary system and sex hormones (G)

**Block 22**
- Health Information / Women's health / Menopause

**Block 23**
- Health Information / Medical Health Intervention (C239) / Physical/Physiological Therapeutic Interventions / Therapeutic Interventions on the Genitourinary System

**Block 24**
- Health Information / Medication Intake (ATC/DDD) / Genito urinary system and sex hormones (G)

**Block 25**
- Health Information / Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified / Symptoms and signs involving cognition, perception, emotional state and behaviour
## General Information

**Study name**: Melbourne Collaborative Cohort Study [MCCS]

**Last update**: 02/01/2012

**Contact**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Damien McCarthy (Data Management Coordinator)</td>
<td>Cancer Council Victoria</td>
<td>Carlton 3053</td>
<td>+61 3 9635 5211</td>
<td><a href="mailto:Damien.McCarthy@cancervic.org.au">Damien.McCarthy@cancervic.org.au</a></td>
</tr>
<tr>
<td>Suzi Neumann (Department Manager)</td>
<td>Cancer Council Victoria</td>
<td>Carlton 3053</td>
<td>+61 3 9635 5154</td>
<td><a href="mailto:Suzi.Neumann@cancervic.org.au">Suzi.Neumann@cancervic.org.au</a></td>
</tr>
</tbody>
</table>

## Access

Data or samples can be accessed by researchers outside the study/biobank (i.e. a researcher who is not an internal researcher of the study/biobank with research privileges)

- Access to at least part of the collected **data** is available for researchers outside the study
- Access to at least part of the collected **samples** is available for researchers outside the study

Data/samples can leave the study/biobank facility/country under the policies and regulations of your study

- **Data**
  - Can leave study/biobank facility
  - Can leave the country

- **Samples**
  - Can leave study/biobank facility
  - Can leave the country

Additional information

- To any country.

Participants can not be contacted for additional information or sampling

Restriction to the category/type of investigator requesting access to your study

- **Data**
  - Access to data may be granted only to investigators inside the country
  - Access to data may be granted only to investigators contributing to the study (with research privileges)
  - Access to data may be granted only to Investigators affiliated with academic, non-profit or public institutions
  - Other restrictions to investigators access

- **Samples**
  - Access to samples may be granted only to investigators inside the country
  - Access to samples may be granted only to investigators contributing to the study (with research privileges)
  - Access to samples may be granted only to Investigators affiliated with academic, non-profit or public institutions
  - Other restrictions to investigators access

Limitations regarding the scientific scope of the projects that can use the study’s data/samples

- There is no limitation to the scope of the projects using the data
- There is no limitation to the scope of the projects using the samples

## Additional Information

Approval process leading to access

To grant access, the study requires approval/authorization/documents by the following entities of the applicant’s institution

- Ethics committee of applicant’s institution (or another organization having jurisdiction or required by local governance rules)
- Scientific committee of applicant’s institution (or another organization having jurisdiction or required by local governance rules)
- Others
To grant access, the study requires approval/authorization/documents by the following entities of the study:

- Ethics committee having jurisdiction over the study/biobank
- Scientific committee having jurisdiction over the study/biobank
- Another local committee/organization relevant to the study (Approval by a scientific committee and approval by an access committee.)

Information regarding fees to access data/samples

Data:

- There are fixed fees to access data
- There are scalable costs to access data varying according to the investigator (e.g. national investigators, students, public/private institutions, etc.)

Samples:

- There are fixed fees to access samples
- There are scalable fees to access samples varying according to the investigator (e.g. national investigators, students, public/private institutions, etc.)

To protect confidentiality, access will be provided in the following format:

- Samples are anonymized (irreversible destruction of the identity of the participant)
- Data is anonymized (irreversible destruction of the identity of the participant)
- Samples are coded (identification by a code(s), with possible reversible process to identify the participant)
- Data are coded (identification by a code(s), with possible reversible process to identify the participant)

Investigators will be have to:

- Submit their publications (articles, presentation, etc) to the study for review prior to public disclosure
- Periodically report to the study on the uses of data/samples and/or publications made possible thanks to the use of this research material
- Recognize the study as a co-author on their publication
- Acknowledge the study in their publication (either in the text or in the footnotes)

Others:

Additional information:

Intellectual property rights resulting from the research using data/samples have to be negotiated with study representative. Return of results/data back to the study (e.g. GWAS, biochemical tests, etc).

Study in-house analysis services

<table>
<thead>
<tr>
<th>Offered</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-house laboratory analysis for applicants</td>
<td>✔</td>
</tr>
<tr>
<td>In-house statistical analysis for applicants</td>
<td>✔</td>
</tr>
</tbody>
</table>