

# Canadian Health Measures Survey Clinic Questionnaire

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# Introduction

The following conventions are used in this document:

- 1. Question text in **bold** font is read to the respondent. Text in normal font is not read to the respondent. Instructions to the person asking the questions or taking the measures are prefaced by the word "<u>INSTRUCTION</u>", and are not read aloud.
- 2. Question text in **bold** font enclosed by brackets () is read to the respondent at the discretion of the person asking the questions.
- 3. Text enclosed by square brackets [] is dynamic and may or may not appear on the computer screen based on the age, sex or other characteristics of the respondent.
- 4. The options "Don't Know" (DK) and "Refusal" (RF) are allowed on every question/measure unless otherwise stated. However, these response categories are shown in this document only when the flow from these responses is not to the next question/measure.

# **Respondent Verification Component**

Upon arrival at the mobile clinic, the respondent is logged into the clinic by the clinic coordinator, which involves the following steps.

- RVB\_N11 INSTRUCTION: Print the Respondent Verification Sheet.
- RVB\_R11 Here is the first of several forms we will be asking you to complete. Please read it carefully and provide the information requested.

<u>INSTRUCTION</u>: Provide the respondent with the Respondent Verification Sheet. When the respondent returns the form, check to ensure that all requested information has been filled in and is legible. DK and RF are not allowed.

RVB\_N12 INSTRUCTION: Print the labels with the respondent's CLINICID as a bar code identifier. Attach the first label to a bracelet, and place the bracelet around the wrist of the respondent. Attach the second label to the Physical Activity Readiness Questionnaire (PAR-Q) form. DK and RF are not allowed.

The respondent's full name as reported on the Respondent Verification Sheet is confirmed or updated.

NSC\_N16 <u>INSTRUCTION</u>: Print the labels with the respondent's short name. Attach the first label to the respondent's file folder. Attach the second label to a urine sample container, and give the container to the respondent.

Note: The bar code portion of the label should be the CLINICID. DK and RF are not allowed.

NOTE: The respondent's gender, date of birth and their preferred official language are confirmed or updated.

Then the Component List Screen is presented with the list of clinic components to be completed.

RVC\_END

## **Consent Component**

To be completed by all respondents.

#### Consent (CON)

CON\_Q11 Before we start the clinic tests, we need to review the consent booklet that was given to you during the interview at your home. Did you have a chance to read that booklet?

INSTRUCTION: Show the respondent the consent package.

- 1 Yes 2
  - No

- (Go to CON R13
- Do you have any questions about any of the information in the consent CON R12 booklet or about the clinic portion of the survey?

**INSTRUCTION:** Answer any questions as thoroughly as possible

Go to CON\_R14

Here is a copy of the booklet. Please take a few minutes to read through it. CON R13 If you have any questions about the information in the booklet or the clinic tests, I can answer them for you.

> INSTRUCTION: Hand the consent package to the respondent and give them time to read through it (approximately 5 minutes).

CON\_R14 Here is the Consent form for participation in the clinic portion of the survey. Please read the form carefully and mark either the "Yes" or "No" box for each item.

> INSTRUCTION: Provide [the parent or guardian/the respondent] with the Consent form. When [the parent or quardian/the respondent] returns the form. check to ensure that it has been completed correctly. Sign and date the form as the witness.

- CON\_C15 If respondent is 14 or older, go to CON\_N16.
- CON N15 INSTRUCTION: Record whether a parent or guardian has consented to the respondent participating in the physical measure tests.
  - Yes No

1

2

(Go to CON END)

CON R16 Your parent or guardian has said you can take part in the tests today. If you would like to participate we need you to write or print your name on this form.

> INSTRUCTION: Provide the child with the Assent form. When the child returns the form, check to ensure that it has been completed correctly. Sign and date the form as the witness.

- CON N16 **INSTRUCTION:** Record whether the respondent has consented to participating in the physical measure tests.
  - 1 Yes 2 No

(Go to CON END)

- CON N21 **INSTRUCTION:** Record whether a Report of Laboratory Tests has been requested.
  - 1 Yes 2
    - No
- CON C23A If respondent's age is 6 to 13, go to CON N24.
- CON N23 INSTRUCTION: Record whether Statistics Canada has been authorised to provide information regarding Hepatitis B and C to the appropriate provincial authority.
  - 1 Yes 2 No
- If respondent has requested a Report of Laboratory Tests or if the respondent CON C23B has declined to share Hepatitis B and C results with the appropriate provincial authority, go to CON C24.
- CON R23 You have indicated on your consent form that you do not want to receive a copy of your laboratory test results. However, you have agreed that Statistics Canada can test your blood for Hepatitis B and C. I just want you to be aware that, by agreeing to have the Hepatitis B and C tests done, you will receive the results if you test positive.

INSTRUCTION: Answer any questions as thoroughly as possible.

- CON\_C24 If respondent is 14 or older, go to CON N25.
- INSTRUCTION: Record whether a parent or guardian has consented to storage CON N24 of the respondent's blood and urine.
  - Yes 1 2 No
- CON\_N25 INSTRUCTION: Record whether the respondent has agreed to storage of blood and urine.

(Go to CON END)

- Yes 1 2 No
- CON C26 If respondent is 19 or younger, go to CON END.
- INSTRUCTION: Record whether the respondent has agreed to storage of DNA. CON N26
  - 1 Yes 2 No

CON END

#### Report (REP)

- REP\_C11 If the parent or guardian has not consented to the respondent participating in the physical measures tests or if the respondent has not consented to the physical measures tests, go to REP\_END. If the respondent has declined a Report of Laboratory Tests, go to REP\_C21.
- REP\_R11 You will receive a copy of [your/[name of respondent]'s] physical measurement test results at the end of the clinic visit today but we will not have the results of the blood and urine tests for about 8-12 weeks.
- REP\_Q12 What delivery method would you prefer?

**INSTRUCTION:** Read categories to respondent.

- 1 Regular mail
- 2 Courier
- REP\_C13 If respondent is 14 or older, go to REP\_C21.
- REP\_N13 INSTRUCTION: Record the name of the person who signed the Consent form. Enter the person's first and last name.
- REP\_C21 If no mailing address exists (i.e., the street and city fields in the mailing address are empty), go to REP\_B22.
- REP\_Q21 I would like to confirm your mailing address. Is it: [Address]
  - Yes No

(Go to REP\_END)

REP\_B22 What is your mailing address?

1

2

INSTRUCTION: Record the mailing address.

REP\_END

#### Urgent Condition (URG)

URG_C11	If no telephone number exists, go to URG_B12.		
URG_Q11	l would like to confirm your telephone number. Is it: [TelephoneNumber]		
	1 2	Yes No	(Go to URG_END)
URG_B12	What is your telephone number?		
	<u>INSTRUCTION</u> : Enter the area code and telephone number. Enter "000" if no telephone.		

URG\_END

# **Screening Component**

To be completed by all respondents.

#### Screening Component Introduction (SCI)

SCI\_R1 The following questions are asked to ensure that you are given all the tests for which you are eligible. Some questions may have been asked during the home interview, but we need to ensure that our information is up-to-date. We also need to know if any changes have occurred since the home interview. It is important to note that some medications and physical conditions may exclude you from certain tests. Please answer to the best of your knowledge, as accurate information about you is important.

Note: If the respondent is younger than 14 then the following sentence is added:

Your parent or guardian may need to help you answer some of these questions.

SCI\_END

#### Adherence to Guidelines (ATG)

ATG_R11	At the time of the home interview you were given a set of pre-testing guidelines. We will now review those guidelines.		
ATG_Q11	When did you last eat or drink anything other than water?		
	INSTRUCTION: Enter the time followed by "AM" or "PM".		
	_ : _  Time (MIN: 01:00) (MAX: 12:59)		
ATG_C12	If difference between AppointmentTime and ATG_Q11 is 10 hours or more, go to ATG_C13.		
ATG_N12	<u>INSTRUCTION</u> : Probe to determine what and how much the respondent ate or drank.		
	Record whether the respondent met the fasting requirements.		
	1 Yes		
	2 No		
ATG_C13	If respondent is older than 69, go to ATG_Q21.		
ATG_N13	INSTRUCTION: Record whether the respondent should be screened out of the mCAFT.		
	1 Yes 2 No		

ATG_Q21	Have you smoked cigarettes or used other tobacco or nicotine products during the <u>past 2 hours</u> ?		
	1 2	Yes No	
ATG_Q31	Have y	ou consumed any alcohol since midn	ight?
	1 2	Yes No	(Go to ATG_Q41)
ATG_N32	<u>INSTRUCTION</u> : Probe to determine when and how much the respondent dra Record whether the respondent should be excluded from one or more tests.		
	1 2	Yes No	(Go to ATG_Q41)
ATG_N33	From w	which tests should the respondent be excl	luded?
	INSTR	UCTION: Mark all that apply.	2
	1 2 3 4	Grip strength mCAFT Sit and reach Partial curl-ups	
ATG_Q41	Have you exercised <u>today</u> ? (e.g., running, swimming, weight training, etc		vimming, weight training, etc.)
	1 2	Yes No	(Go to ATG_END)
ATG_Q42	For ho	w long did you exercise?	
	1 2 3 4	1 to 15 minutes 16 to 30 minutes 31 to 60 minutes More than one hour	
ATG_END	2		
<u> </u>			

#### Physical and Health Conditions (PHC)

- PHC R11 I am now going to ask you about your current health and physical condition.
- PHC\_C11 If the respondent is male, or if the respondent is a female younger than 14 or older than 55, go to PHC Q31.
- PHC\_Q11 Are you currently pregnant?
  - Yes 1 2 No
- If respondent is pregnant, go to PHC Q12. Otherwise, go to PHC Q31. PHC C12
- PHC Q12 In what week are you?

1

1

2

2

Week (MIN: 1) (MAX: 45)

- PHC\_Q31 Have you been diagnosed with exercise induced asthma or a breathing condition that worsens with exercise? (For example: chronic bronchitis, emphysema, COPD.)
  - (Go to PHC C36) Yes 2 No
- PHC C32 If according to the household interview the respondent has been diagnosed with asthma, go to PHC Q32. Otherwise go to PHC C33.
- PHC\_Q32 During the interview in your home, it was reported that you had asthma. Is this correct?
  - Yes No

(Go to PHC Q36)

- If according to the household interview the respondent has been diagnosed with PHC C33 chronic bronchitis, go to PHC Q33. Otherwise go to PHC C34.
- PHC Q33 During the interview in your home, it was reported that you had chronic bronchitis. Is this correct?
  - Yes (Go to PHC\_Q36) No
- PHC\_C34 If according to the household interview the respondent has been diagnosed with emphysema, go to PHC Q34. Otherwise go to PHC C35.
- PHC Q34 During the interview in your home, it was reported that you had emphysema. Is this correct?

1	Yes	(Go to PHC_Q36)
2	No	

PHC C35 If according to the household interview the respondent has been diagnosed with chronic obstructive pulmonary disease, go to PHC Q35. Otherwise go to PHC C36.

PHC Q35 During the interview in your home, it was reported that you had chronic obstructive pulmonary disease (COPD). Is this correct?

- 1 Yes 2
  - No
- If respondent has been diagnosed with exercise induced asthma or a breathing PHC C36 condition that worsens with exercise, go to PHC Q36. Otherwise go to PHC Q41.
- Are you currently taking any medication for your breathing condition(s)? PHC Q36
  - 1 Yes 2 No

(Go to PHC Q41)

(Go to PHC Q36)

- PHC\_C37 If respondent is older than 69, go to PHC Q41
- PHC Q37 Do you have your medication with you?
  - 1 Yes
  - 2 No
- Do you have an acute condition (e.g., sprained ankle, cold, flu, other PHC Q41 infection) that may prevent you from participating in any of the tests today?
  - 1 Yes - Specify (Go to PHC Q51) 2 No
- From which tests should the respondent be excluded because of this condition? PHC\_N42

INSTRUCTION: Probe to determine the seriousness of the condition. Mark all that apply (1-11) or select 12.

- Phlebotomy 1
- 2 Urine

3

- Height and Weight
- Skinfolds
- 5 Activity monitor
- 6 Spirometry
- 7 mCAFT
- 8 Grip strength
- 9 Sit and reach
- Partial curl-ups 10
- 11 Oral health
- 12 None

PHC Q51 Do you have hemophilia?

- 1 Yes
- 2 No

PHC\_Q52 Have you received chemotherapy in the past four weeks?

- Yes 1 2
- No

PHC\_END

#### **Spirometry Questions (SPQ)**

- SPQ C11 If respondent is older than 12, go to SPQ R21.
- SPQ R11 The next set of questions is related to the health of [respondent's first name]'s lungs.

INSTRUCTION: Ask the questions of the parent or guardian of the respondent.

- Has your child ever had wheezing or whistling in the chest at any time in SPQ Q11 the past?
  - 1 Yes 2 No

(Go to SPQ Q16)

- Has your child had wheezing or whistling in the chest in the last 12 SPQ Q12 months?
  - 1 Yes 2 No

(Go to SPQ Q16)

How many attacks of wheezing has your child had in the last 12 months? SPQ Q13

INSTRUCTION: Read categories to respondent.

- 1 to 3 attacks 1
- 2 4 to 12 attacks
- 3 More than 12 attacks
- In the last 12 months, how often, on average, has your child's sleep been SPQ\_Q14 disturbed due to wheezing?

INSTRUCTION: Read categories to respondent.

- 1 Never woken with wheezing
- 2 Less than one night per week
- 3 One or more nights per week
- SPQ Q15 In the last 12 months, has wheezing ever been severe enough to limit your child's speech to only one or two words at a time between breaths?
  - Yes
  - No

1

2

SPQ Q16 In the last 12 months, has your child's chest sounded wheezy during or after exercise?

- 1 Yes
- 2 No

- SPQ Q17 In the last 12 months, has your child had a dry cough at night, apart from a cough associated with a cold or a chest infection?
  - 1 Yes 2 No

Go to SPQ\_END.

- SPQ\_R21 The next set of questions is related to the health of your lungs.
- SPQ\_Q21 Do you cough regularly?
  - Yes 1 2
    - No
- SPQ Q22 Do you cough up phlegm regularly?
  - Yes 1 2
    - No
- SPQ\_Q23 Do even simple chores make you short of breath?
  - Yes 1
  - 2 No
- SPQ\_Q24 Do you wheeze when you exert yourself, or at night?
  - 1 Yes
  - 2 No
- Do you get frequent colds that persist longer than those of other people SPQ\_Q25 you know?
  - 1 Yes 2 No

SPQ END

#### Medications and Health Remedies (MHR)

#### **Prescription Medications**

- **MHR C100** If no prescription medications were reported in the household interview, go to MHR Q121.
- **MHR R100** Now I'd like to confirm your use of prescription medications.

INSTRUCTION: For each medication listed from the home interview, ask the following two questions.

- CDP Q1 During the interview in your home, it was reported that you were taking [name of #th prescription medication]. Are you still taking that medication?
  - 1 Yes
  - 2 No

3

(Go to next medication or MHR Q121) (Go to next medication or MHR\_Q121)

CDP\_Q2 When was the last time that you took that medication?

Never took the medication

**INSTRUCTION:** Read categories to respondent.

- 1 Today
- 2 Yesterday
- 3 Within the last week
- 4 Within the last month
- 5 More than one month ago
- Are you taking any [other] prescription medications? [Remember to include MHR Q121 prescribed medications such as insulin, nicotine patches and birth control (pills, patches or injections).]
  - 1 Yes 2 No

(Go to MHR C200, Over-thecounter medications)

**MHR Q122** How many?

> Medications (MIN: 1) (MAX: 95)



INSTRUCTION: For each other prescription medication, to a maximum of five, ask the following five questions.

NDP\_Q1

#### Is a Drug Identification Number (DIN) available for the [#th] medication?

INSTRUCTION: If necessary, help the respondent to find the DIN on the bottle, tube or box.

1	Yes	
2	No	(Go to NDP_Q4)

(Go to NDP\_Q5)

(Go to next medication or MHR Q221)

#### NDP Q2 What is the DIN of the [#th] medication?

INSTRUCTION: Record DIN from the bottle, tube or box. Be sure to use eight digits; use leading zeros to fill the field if necessary (e.g., 00012345).

|\_|\_|||||| Drug Identification Number (MIN: 0000001) (MAX: 99999995)

NDP\_N3 INSTRUCTION: Medication name for DIN [number] is [medication name]. Please confirm.

Yes
No

1 2

#### NDP Q4 What is the exact name and dosage of the [#th] medication?

INSTRUCTION: Record the exact name and dosage of the #th medication from the bottle, tube or box.

#### NDP\_Q5 When was the last time that you took that medication?

**INSTRUCTION:** Read categories to respondent.

- 1 Today
- 2 Yesterday
- 3 Within the last week
- 4 Within the last month
- More than one month ago 5

#### **Over-the-Counter Medications**

**MHR C200** If no over-the-counter medications were reported in the household interview, go to MHR Q221.

Now I'd like to confirm your use of over-the-counter medications. **MHR R200** 

> INSTRUCTION: For each medication listed from the home interview, ask the following two questions.

During the interview in your home, it was reported that you were taking [name of #th over-the-counter medication]. Are you still taking that medication?

- Yes 1 2
  - No
- 3 Never took the medication (Go to next medication or MHR Q221)

CDP\_Q1

#### CDP\_Q2 When was the last time that you took that medication?

INSTRUCTION: Read categories to respondent.

- 1 Today
- 2 Yesterday
- 3 Within the last week
- 4 Within the last month
- 5 More than one month ago
- MHR\_Q221 Are you taking any [other] over-the-counter medications? [Pain killers, antacids, allergy pills and hydrocortisone creams are all examples of over-the-counter medications.]
  - 1 Yes 2 No

(Go to MHR\_C300, Health Product and Herbal Remedies)

MHR\_Q222 How many?

|\_| Medications (MIN: 1) (MAX: 95)

<u>INSTRUCTION:</u> For each other over-the-counter medication, to a maximum of five, ask the following five questions.

#### NDP\_Q1 Is a Drug Identification Number (DIN) available for the [#th] medication?

<u>INSTRUCTION</u>: If necessary, help the respondent to find the DIN on the bottle, tube or box.

1 Yes 2 No

1

2

(Go to NDP\_Q4)

NDP\_Q2 What is the DIN of the [#th] medication?

<u>INSTRUCTION</u>: Record DIN from the bottle, tube or box. Be sure to use eight digits; use leading zeros to fill the field if necessary (e.g., 00012345).

[]\_\_\_\_\_ Drug Identification Number (MIN: 00000001) (MAX: 99999995)

INSTRUCTION: Medication name for DIN [number] is [medication name]. Please confirm.

Yes (Go to NDP\_Q5) No

NDP\_Q4 What is the exact name and dosage of the [#th] medication?

<u>INSTRUCTION</u>: Record the exact name and dosage of the <u>#th</u> medication from the bottle, tube or box.

NDP N3

#### NDP Q5 When was the last time that you took that medication?

INSTRUCTION: Read categories to respondent.

- 1 Today
- 2 Yesterday
- 3 Within the last week
- 4 Within the last month
- 5 More than one month ago

#### Health Product and Herbal Remedies

- If no health product or herbal remedies were reported in household interview, go **MHR C300** to MHR Q321.
- Now I'd like to confirm your use of health products and herbal remedies. **MHR R300**

INSTRUCTION: For each product or remedy listed from the home interview, ask the following two questions.

- During the interview in your home, it was reported that you were taking CDP Q1 [name of #th product or remedy]. Are you still taking that product?
  - 1 Yes
  - 2 No

3

(Go to next product or MHR Q321) (Go to next product or MHR Q321)

CDP Q2 When was the last time that you took that product?

Never took the product

INSTRUCTION: Read categories to respondent.

- 1 Today
- Yesterday 2
- 3 Within the last week
- 4 Within the last month 5
  - More than one month ago
- Are you taking any [other] health products or herbal remedies such as MHR Q321 vitamins, minerals, fish oils and other oils, and botanical or homeopathic preparations?
  - Yes No

2

(Go to MHR C411, Other Substances)

**MHR Q322** 

How many?

Products (MIN: 1) (MAX: 95)

INSTRUCTION: For each other product or remedy, to a maximum of five, ask the following five questions.

#### NDP\_Q1 Is a Drug Identification Number (DIN) available for the [#th] product?

<u>INSTRUCTION</u>: If necessary, help the respondent to find the DIN on the bottle, tube or box.

1 Yes 2 No

(Go to NDP\_Q4)

(Go to NDP\_Q5)

#### NDP\_Q2 What is the DIN of the [#th] product?

<u>INSTRUCTION</u>: Record DIN from the bottle, tube or box. Be sure to use eight digits; use leading zeros to fill the field if necessary (e.g., 00012345).

|\_|\_|||||||| Drug Identification Number (MIN: 0000001) (MAX: 99999995)

- NDP\_N3 <u>INSTRUCTION</u>: Product name for DIN [number] is [product name]. Please confirm.
  - 1 Yes 2 No

#### NDP\_Q4 What is the exact name and dosage of the [#th] product?

<u>INSTRUCTION</u>: Record the exact name and dosage of the <u>#th</u> product from the bottle, tube or box.

#### NDP\_Q5 When was the last time that you took that product?

**INSTRUCTION:** Read categories to respondent.

- 1 Today
- 2 Yesterday
- 3 Within the last week
- 4 Within the last month
- 5 More than one month ago

#### Other Substances

MHR\_C411 If respondent is younger than 14, go to MHR\_N611.

- MHR\_R411 Now I am going to ask you some questions about your use of other substances such as performance enhancing or recreational drugs. We ask these questions because these drugs can affect the results of the physical and biological measures that we will be taking today. You can be assured that anything you say will remain confidential.
- MHR\_Q411 In the past week have you used any performance enhancing or recreational drugs such as steroids, marijuana or cocaine?
  - 1 Yes
  - 2 No

MHR\_N611 From which tests should the respondent be excluded because of medication use?

INSTRUCTION: Mark all that apply.

- 1 Spirometry
- mCAFT
- 2 3 Grip strength
- 4 Sit and reach
- 5 Partial curl-ups
- 6 None

MHR\_END

#### **Physical Activity Readiness (PAR)**

#### PAR\_R01 For respondents 14 or older:

Next you need to complete a questionnaire called the Physical Activity Readiness Questionnaire. These questions are used to identify people for whom certain tests might be inappropriate. Please read the questionnaire and answer each question thinking about the tests that you will be doing today. If you have any questions please ask me. When you have completed the questionnaire, sign and date the bottom of the form.

<u>INSTRUCTION</u>: Provide the respondent with a blank PAR-Q (shown in Appendix 1). Show the laminated card with pictures of each testing component to the respondent. Ensure that all PAR-Q questions have been answered. Ensure that the respondent has signed and dated the form. Sign and date the form as the witness.

#### For respondents younger than 14:

Next you need to complete a questionnaire called the Physical Activity Readiness Questionnaire. These questions are used to identify people for whom certain tests might be inappropriate. Your parent or guardian may need to help you read and answer some of these questions. If you have any questions please ask me. When you're done, please write or print your name at the bottom of this form.

<u>INSTRUCTION</u>: Provide the respondent with a blank PAR-Q (shown in Appendix 1). Show the laminated card with pictures of each testing component to the respondent. Ensure that all PAR-Q questions have been answered. Ask the parent or guardian to sign and date the form. Sign and date the form as the witness.

# PAR\_R02 I am now going to enter that information into our computer system. I may have some additional questions about your responses.

PAR\_N11 Has your doctor ever said that you have a heart condition <u>and</u> that you should only do physical activity recommended by a doctor?

INSTRUCTION: Enter the response from the PAR-Q completed by the respondent.

Yes No

2

PAR N21

Do you feel pain in your chest when you do physical activity?

<u>INSTRUCTION</u>: Enter the response from the PAR-Q completed by the respondent.

1 Yes

2 No

PAR\_N31 In the past month, have you had chest pain when you were not doing physical activity?

<u>INSTRUCTION</u>: Enter the response from the PAR-Q completed by the respondent.

- 1 Yes
- 2 No
- PAR\_N41 Do you lose your balance because of dizziness or do you ever lose consciousness?

<u>INSTRUCTION</u>: Enter the response from the PAR-Q completed by the respondent.

1 Yes 2 No

(Go to PAR\_N51)

- PAR\_Q42 In completing the questionnaire you reported that you lost your balance because of dizziness or have lost consciousness. Which condition was the reason for that response?
  - 1 Lost balance
  - 2 Lost consciousness
  - 3 Both
- PAR\_Q43 Was the last time that you [lost your balance/lost consciousness/lost your balance or lost consciousness] within the last year?
  - 1 Yes
  - 2 No

1

PAR\_Q44 Under which condition(s) does this happen?

INSTRUCTION: Mark all that apply.

- Standing up quickly
- 2 Getting up from lying down
- 3 After an injury/accident (e.g., concussion, head injury)
- 4 During an illness (e.g., inner ear infection)
- 5 During or after exercise
- 6 After fasting for a long period of time
- 7 On hot days
- 8 At random 9 Other - Spe
  - Other Specify \_\_\_\_\_
- PAR\_C45 If respondent has not lost balance or lost consciousness in the last year, go to PAR\_N51. If respondent has lost balance or lost consciousness in the last year and PAR\_Q44 < 9, go to PAR\_N51.
- PAR\_N45 Should the respondent be excluded from the mCAFT because of this condition?
  - 1 Yes
  - 2 No

PAR N51 Do you have a bone or joint problem (for example back, knee or hip) that could be made worse by a change in your physical activity?

> INSTRUCTION: Enter the response from the PAR-Q completed by the respondent.

- 1 Yes 2
  - No

(Go to PAR N61)

In completing the questionnaire you reported that you have a bone or joint PAR Q52 problem. The problem is with which bone or joint?

INSTRUCTION: Mark all that apply.

- 1 Head / Jaw
- 2 Neck
- 3 Back / Spine (excluding neck)
- 4 Shoulder
- 5 Arm / Elbow
- 6 Wrist
- 7 Hand / Finger
- 8 Hip

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- 9 Leg / Knee
- 10 Ankle
- Foot / Toe 11
- For each bone or joint identified in question PAR\_Q52, ask the following three PAR B53A questions:

#### BJP\_Q1 What is the condition that affects your [identified problem]

- Arthritis (osteoarthritis or rheumatoid arthritis) 1
  - Vertebral disorder (e.g., chronic back or neck pain)
- 3 Osteoporosis
- 4 Chronic soft tissue condition (e.g., tendonitis) 5
  - Chronic joint condition (e.g., bursitis, carpal tunnel syndrome)
  - Acute soft tissue condition (e.g., pulled muscle, sprain, strain)
- 7 Acute bone condition (e.g., broken bone)
  - Neuromuscular disorder (e.g., multiple sclerosis, cerebral palsy, spinal cord dysfunction, muscular dystrophy, brain injury) Amputation
  - - Other Specify

#### BJP\_Q2 What types of activities aggravate your [identified problem]?

<u>INSTRUCTION</u>: Probe as necessary to determine whether the respondent should be excluded from any physical tests. Mark all that apply.

- 1 Bending
- 2 Lifting
- 3 Climbing stairs
- 4 Walking or running
- 5 Squeezing
- 6 Twisting
- 7 Stretching or reaching
- 8 Other Specify \_\_\_\_\_

BJP\_N3 From which tests should the respondent be excluded because of this condition?

INSTRUCTION: Mark all that apply.

- 1 mCAFT
- 2 Grip strength
- 3 Sit and reach
- 4 Partial curl-ups
- 5 None
- PAR\_N61 Is your doctor currently prescribing drugs (for example, water pills) for your blood pressure or a heart condition?

<u>INSTRUCTION</u>: Enter the response from the PAR-Q completed by the respondent.

1 Yes 2 No

(Go to PAR\_N71)

- NOTE: A list of confirmed and new prescription drugs is displayed under a heading, "Medications Currently Being Taken."
- PAR\_Q62 For which condition(s) are you taking the drugs?

INSTRUCTION: Mark all that apply.

- High blood pressure
- Low blood pressure
- 3 Angina

1

2

- 4 Previous heart attack
- 5 Aneurysm
- 6 Arrhythmia
- 7 Other heart condition Specify
- 8 Other medical condition Specify \_\_\_\_

PAR\_N71 Do you know of <u>any other reason</u> why you should not do physical activity?

<u>INSTRUCTION</u>: Enter the response from the PAR-Q completed by the respondent.

- 1 Yes Specify \_\_\_\_\_\_\_\_\_\_(Go to PAR END)
- PAR\_N72 From which tests should the respondent be excluded because of this condition?

<u>INSTRUCTION</u>: Probe to determine the seriousness of the condition. Mark all that apply.

- 1 mCAFT
- 2 Grip strength
- 3 Sit and reach
- 4 Partial curl-ups
- 5 None

PAR\_END

#### Other Reason for Screening Out (ORS)

ORS_Q1	Are there any other reasons why you should not participate in one or more of the physical tests?		
	1 2	Yes No	
ORS_N1		<u>JCTION</u> : Is there any other reason why the respondent should not the Grip Strength test?	
	1 2	Yes - SpecifyNo	
ORS_N2	<u>INSTRUCTION</u> : Is there any other reason why the respondent should not perform the Spirometry test?		
	1 2	Yes - Specify O	
ORS_C3	If respo	ndent is older than 69, go to ORS_END.	
ORS_N3		<u>JCTION</u> : Is there any other reason why the respondent should not the modified Canadian Aerobic Fitness Test (mCAFT)?	
	1 2	Yes - Specify	
ORS_N4		<u>JCTION</u> : Is there any other reason why the respondent should not the Sit and Reach test?	
	1 2	Yes - Specify No	
ORS_N5		<u>JCTION</u> : Is there any other reason why the respondent should not the Partial Curl-up test?	
	1 2	Yes - Specify No	
ORS_END	2	*	
<0			

## **Urine Collection Component**

#### Introduction (UCI)

UCI\_R01 Now we would like you to provide a urine sample. Please fill the cup up to the line and put the lid back on tightly. Once you are finished, place the filled cup in the brown paper bag and bring it back to this room. If you are unable to provide a sample at this time then we will try again later during the clinic visit.

```
UCI_END
```

#### Urine Collection (URC)

- URC\_N01 <u>INSTRUCTION</u>: Record whether the respondent provided a urine sample.
  - 1 Yes 2 No

- (Go to URC\_END)
- URC\_N02 <u>INSTRUCTION</u>: Record the reason why the respondent did not provide a urine sample.
  - 1 Refusal
  - 2 Unable to provide
  - 3 Other Specify

URC\_END

# **Anthropometric Component**

#### Anthropometric Component Introduction (ACI)

- ACI\_R01 Next will be a series of body measurements.
- NOTE: See Canadian Health Measures Survey Protocols for further details on measurement protocols and procedures.

ACI\_END

#### Height and Weight Measurement (HWM)

To be completed by all respondents except those meeting the exclusion criteria:

- 1. The respondent has an acute condition and should be excluded from the tests in this component
- 2. Respondents who need help standing or sitting.
- HWM\_Q11 I'm going to start by measuring how tall you are. Please remove your shoes and stand with your feet together and your heels, buttocks, back, and head in contact with the measuring device. Look straight ahead and stand as tall as possible. Now, take a deep breath in and hold it.

<u>INSTRUCTION</u>: Ensure the respondent's head is in the Frankfort plane. Take the measurement while the breath is being held.

- HWM\_N11 INSTRUCTION: Record how the data will be captured.
  - 1 Electronically
  - 2 Manually
  - 3 Self-report

(Go to HWM\_N11B) (Go to HWM\_N11B)

#### If captured Electronically:

HWM\_N11A <u>INSTRUCTION</u>: Ensure that the stadiometer is set to centimetres (cm). Press the "Send" button on the left side of the digital display box or the "Data" button on the SPC (send to PC) device.

> L\_|\_|\_|.|\_|\_| Height (in millimetres) (MIN: 700.00) (MAX: 2130.00) DK, RF

(Go to HWM\_S11)

If captured Manually or Self-reported:

HWM\_N11B INSTRUCTION: Record the standing height in centimetres.

|\_|\_|.|\_| Height (in centimetres) (MIN: 70.00) (MAX: 213.00) DK, RF

(Go to HWM\_S11)

INSTRUCTION: Re-enter the standing height in centimetres.

[\_\_\_\_].[\_]\_| Height (in centimetres) (MIN: 70.00) (MAX: 213.00)

HWM\_S11 INSTRUCTION: If the measurement could not be taken, specify the reason.

HWM\_Q12 Next I'd like you to sit on this box so that I can measure how tall you are when you are sitting. Sit with your back and head against the measuring device. Put your hands on your lap and keep your legs still. Look straight ahead and sit up as straight as possible. Now, take a deep breath in and hold it.

> <u>INSTRUCTION</u>: Ensure the respondent's head is in the Frankfort plane. Ensure the respondent does not contract the gluteal muscles nor push with the legs. Take the measurement while the breath is being held.

If captured Electronically:

<u>INSTRUCTION</u>: Ensure that the stadiometer is set to centimetres (cm). Press the "Send" button on the left side of the digital display box or the "Data" button on the SPC (send to PC) device.

|\_|\_|.|\_|. Height (in millimetres) (MIN: 700.00) (MAX: 2130.00) DK, RF

(Go to HWM\_S12)

If captured Manually or Self-Reported

INSTRUCTION: Record the sitting height in centimetres.

|\_|\_|.|\_|| Height (in centimetres) (MIN: 70.00) (MAX: 213.00) DK, RF

(Go to HWM\_S12)

INSTRUCTION: Re-enter the sitting height in centimetres.

|\_|\_|.|\_| Height (in centimetres) (MIN: 70.00) (MAX: 213.00)

HWM\_S12 INSTRUCTION: If the measurement could not be taken, specify the reason.

# HWM\_Q13 Next I'm going to measure how much you weigh. Please step onto the centre of the scale and face me. Keep your hands at your sides and look straight ahead.

<u>INSTRUCTION</u>: Ensure the respondent has on only minimal clothing (no shoes) and has nothing in his/her pockets.

Record in F4 – Remarks any exceptions to a normal weight measurement such as amputations, pregnancy, wheelchair, castings etc.

HWM\_N13 INSTRUCTION: Record how the data will be captured.

- Electronically
- 2 Manually (Go to HWM\_N13B)

#### *If captured Electronically:*

1

<u>INSTRUCTION</u>: Ensure the scale is set to kilograms (kg). When the measurement is stable, record the weight.

|\_|\_|.|\_| Weight (in kilograms) (MIN: 0.00) (MAX: 300.00) DK, RF

(Go to HWM\_S13)

Go to HWM\_C14.

If captured Manually:

INSTRUCTION: When the measurement is stable, record the weight.

|\_|\_|.|\_| Weight (in kilograms) (MIN: 0.00) (MAX: 300.00) DK, RF

(Go to HWM\_S13)

INSTRUCTION: Re-enter the weight in kilograms.

|\_|\_|.|\_| Weight (in kilograms) (MIN: 0.0) (MAX: 300.0)

Go to HWM\_C14.

HWM\_S13 <u>INSTRUCTION</u>: If the measurement could not be taken, specify the reason.

HWM\_C14

If respondent is more than 12 weeks pregnant, go to SFM\_END.

HWM\_Q14 Now I'm going to measure your waist circumference. First I need to feel for your hip bones and for the bottom of your ribs. I will take the measurement between these two points. Please stand up straight with your arms hanging loosely at your sides, and breath normally. I may need to move your clothing slightly because the measurement has to be taken directly on the skin. To ensure I have the correct position, I am going to make two small marks on your skin with a washable marker where the tape measure is to go. These marks will wash off with soap and water.

> <u>INSTRUCTION</u>: Read the measurement at the side of the body. Take the measurement at the end of a normal expiration. If the respondent will not allow measurement on the skin, take the measurement over the shirt and use F4 – Remarks to make a note.

INSTRUCTION: Record the waist circumference.

|\_|\_|.|\_| Waist circumference (in centimetres) (MIN: 20.0) (MAX: 199.0) DK, RF (Go to HWM\_S14)

INSTRUCTION: Re-enter the waist circumference in centimetres.

|\_|\_|.|\_| Waist circumference (in centimetres) (MIN: 20.0) (MAX: 199.0)

HWM\_S14 INSTRUCTION: If the measurement could not be taken, specify the reason.

HWM\_Q15 Now I'm going to measure your hip circumference. Please stand up straight with your arms hanging loosely at your sides, and breathe normally. I may need to move your clothing slightly to ensure the measurement is accurate.

<u>INSTRUCTION</u>: Read the measurement at the side of the body. Take the measurement at the end of a normal expiration.

INSTRUCTION: Record the hip circumference.

 Image: Image:

(Go to HWM\_S15)

INSTRUCTION: Re-enter the hip circumference in centimetres.

|\_|\_|.|\_| Hip circumference (in centimetres) (MIN: 20.0) (MAX: 199.0)

HWM\_S15 INSTRUCTION: If the measurement could not be taken, specify the reason.

Then the following variables are calculated:

- body mass index
- body mass index norms for respondents 18 or older
- body mass index norms for respondents younger than 18
- waist circumference norms for respondents aged 15 to 69
- waist-to-hip ratio.

#### HWM\_END

#### Skinfold Measurement (SFM)

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Women who are more than 12 weeks pregnant.
- 2. Respondents with BMI  $\geq$  30 kg/m<sup>2</sup>.
- 3. Respondents with an acute condition that prevents them from completing the measure (e.g., varicose veins, skin condition).
- SFM\_Q01 To accurately calculate your body composition score I will also measure the thickness of your skinfolds using this skinfold caliper. To measure a skinfold I will take hold of a fold of skin plus any underlying fat tissue between my fingers. Then I will place the calipers on the fold at which time you may feel a slight pinch. Let me show you how it will feel on your hand.

<u>INSTRUCTION</u>: Show the skinfold calipers to the respondent and demonstrate the technique on the palm of the respondent's hand.

If respondent refuses, go to SFM\_END.

SFM\_R02 I will be measuring skinfolds at five sites: back of the arm (triceps), front of the arm (biceps), shoulder blade (subscapular), waist (iliac crest) and on the inside of your lower leg (medial calf). At each site I will be taking 2 or 3 measurements.

The measurement must be taken directly against the skin so I may need you to move your clothing slightly to have access to the various sites. First I need to mark the location of each site using this washable marker. The marks will wash off with soap and water.

INSTRUCTION: Mark all locations. Refer to the operations manual for the complete set of procedures.

#### **First Skinfold Measurements**

SFM\_N11 <u>INSTRUCTION</u>: Record the first <u>triceps</u> skinfold measurement to the nearest 0.2 millimetres.

I\_I\_ITriceps skinfold measurement (in millimetres)(MIN: 0.0)(MAX: 80.0)DK, RF(Go to SFM S11)

SFM\_S11 INSTRUCTION: If the measurement could not be taken, specify the reason.

SFM\_N12 <u>INSTRUCTION</u>: Record the first <u>biceps</u> skinfold measurement to the nearest 0.2 millimetres.

[\_[.].] Biceps skinfold measurement (in millimetres) (MIN: 0.0) (MAX: 80.0)

- SFM\_S12 INSTRUCTION: If the measurement could not be taken, specify the reason.
- SFM\_N13 INSTRUCTION: Record the first <u>subscapular</u> skinfold measurement to the nearest 0.2 millimetres.

|\_|\_|.|\_ Subscapular skinfold measurement (in millimetres) (MIN: 0.0) (MAX: 80.0)

- SFM\_S13 INSTRUCTION: If the measurement could not be taken, specify the reason.
- SFM\_N14 <u>INSTRUCTION</u>: Record the first <u>iliac crest</u> skinfold measurement to the nearest 0.2 millimetres.

[\_[.].] Iliac crest skinfold measurement (in millimetres) (MIN: 0.0) (MAX: 80.0)

- SFM\_S14 <u>INSTRUCTION</u>: If the measurement could not be taken, specify the reason.
- SFM\_N15 <u>INSTRUCTION</u>: Record the first <u>medial calf</u> skinfold measurement to the nearest 0.2 millimetres.

[\_[.].] Medial calf skinfold measurement (in millimetres) (MIN: 0.0) (MAX: 80.0)

SFM\_S15 INSTRUCTION: If the measurement could not be taken, specify the reason.

#### Second Skinfold Measurements

This sequence of measurements is repeated a second time and recorded for all five skinfold sites. If the difference between the two skinfold measures is greater than 0.4 mm at any site, or if one of the measurements could not be taken, a third measurement is taken for the site.

#### **Third Skinfold Measurements**

SFM\_R30 The difference between the first and second measures at [the first/second/third/fourth/fifth site(s)] is too large, so I will have to take a third measurement for [this/these site(s)].

NOTE: The skinfold measurement(s) is/are retaken a third time for every site where the difference between the 1st and 2nd measurement is greater than 0.4 mm

NOTE:

Then the following variables are calculated:

- triceps skinfold average
- biceps skinfold average
- subscapular skinfold average
- iliac crest skinfold average
- medial calf skinfold average
- sum of five skinfolds.
- sum of five skinfolds norms for respondents 15 69
- body composition norms for respondents 15 69.

SFM\_END

# **Blood Pressure Component**

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Presence of the following on both arms: rashes, gauze dressings, casts, edema, paralysis, tubes, open sores or wounds, withered arms, a-v shunts
- 2. Blood pressure cuff too small or too large to fit on arm

Right arm exclusion

- 1. Blood has been drawn from right arm within the last week
- 2. Presence of the following: rash, gauze dressing, cast, edema, paralysis, tubes, open sores or wounds, withered arm, a-v shunt
- 3. Right mastectomy
- 4. Right arm amputation
- 5. Cast on right arm
- NOTE: For respondents younger than 18, the anthropometric component must be completed prior to the completion of this component.

#### Blood Pressure Measurement (BPM)

BPM\_N101 <u>INSTRUCTION</u>: Record how the first set of data will be captured.

- 1 Electronically
- 2 Manually

(Go to BPM\_Q110)

#### Automated Blood Pressure Measurement

BPM\_Q101 Now I will take your blood pressure and heart rate using an automated blood pressure cuff. During this test you will need to sit with your feet flat on the floor with your back against the back rest of the chair, and have your right arm straight on the table.

<u>INSTRUCTION</u>: Select the appropriate cuff size based on arm circumference, secure it on the right arm and ensure the respondent is in the correct seated position.

BPM\_C102 If respondent refuses, go to BPM\_Q110.

#### BPM\_Q102 For respondents 14 or older:

The blood pressure cuff will inflate automatically once every minute, applying pressure to your arm. A total of six measures will be taken. I will stay in the room for the first measurement but will leave the room for all others. You should not move or talk during the test, and you need to keep both feet flat on the floor. It is important that you stay relaxed to ensure we get good results. Do you have any questions before we begin?

INSTRUCTION: Answer any questions as thoroughly as possible.

For respondents younger than 14:

The blood pressure cuff will fill with air, squeezing your arm a little. It will do this 6 times. During the test you cannot talk, and you need to sit really still and keep both feet flat on the floor or step. You should stay relaxed to ensure we get good results. Do you have any questions before we begin?

INSTRUCTION: Answer any questions as thoroughly as possible.

BPM\_R103 Now I will start the machine.

<u>INSTRUCTION</u>: Press <Start> on the BPTru screen. Check that the BPTru collects the first measurement properly. Allow the BPTru to collect six measurements. Lock the fields containing the data from the BPTru. Save the measurements and go to BPM\_N160.

Manual Blood Pressure Measurement

BPM\_Q110 Now I will take your blood pressure and heart rate. During this test you will need to sit with your feet flat on the floor with your back against the backrest of the chair, and have your right arm straight on the table with the palm facing up.

<u>INSTRUCTION</u>: Select the appropriate cuff size based on arm circumference, secure it on the right arm and ensure the respondent is in the correct seated position. Determine the maximum inflation level.

Determine the maximum imation level.

- BPM\_C110 If respondent refuses, go to BPM\_END.
- BPM\_R110 For respondents 14 or older:

I will take your blood pressure 6 times, and will measure your heart rate using this heart rate monitor. You should not move or talk during the test, and you need to keep both feet flat on the floor. It is important that you stay relaxed to ensure we get good results. Do you have any questions before we begin?

INSTRUCTION: Show the heart rate monitor to the respondent and help put it on.

Answer any questions as thoroughly as possible.

For respondents younger than 14:

I will take your blood pressure 6 times, and will measure your heart rate using this heart rate monitor. During the test you need to sit really still, you cannot talk and you must keep your feet flat on the floor or step. You should stay relaxed to make sure that we get good results. Do you have any questions before we begin?

INSTRUCTION: Show the heart rate monitor to the respondent and help put it on.

Answer any questions as thoroughly as possible.

BPM\_B110 Record the blood pressure and heart rate 6 times.

BPR N1A **INSTRUCTION:** Record the systolic blood pressure measurement.

> Systolic blood pressure (in mmHg) (MIN: 30) (MAX: 300)

BPR N1B INSTRUCTION: Record the diastolic blood pressure measurement.

> Diastolic blood pressure (in mmHq) (MIN: 30) (MAX: 200)

INSTRUCTION: Record the heart rate. BPR N2

> Heart rate (in beats per minute) ||||||(MIN: 30) (MAX: 200)

- INSTRUCTION: Record the reason if the measurement could not be taken. BPR N3 Mark all that apply.
  - 5 Deflation too slow
  - 6 Deflation too fast
  - 20 Indeterminate systolic blood pressure
  - Indeterminate diastolic blood pressure 21
  - Other Specify 88
- INSTRUCTION: Check the blood pressure and heart rate data. If there are large **BPM N160** discrepancies in 3 or more of the measurements, or if the variation between any of the systolic or heart rate measurements exceeds prescribed limits, then redo the measurements.
  - 1 Accept the measurements 2
    - Redo the measurements

(Go to BPM R191)

Then the following variables are calculated:

- average systolic blood pressure
- average diastolic blood pressure
- average resting heart rate.
- If the respondent's average systolic BP is less than 145 and average diastolic BP **BPM C163** is less than 95 and average resting heart rate is less than 100, go to BPM END. If the respondent's blood pressure or heart rate measurements were outside acceptable limits, or if some measurements were not captured, redo the measurements.

BPM\_R191 Your [blood pressure/heart rate] today is a little elevated. This sometimes happens when people are anxious about the clinic tests. I will leave you to sit and relax for five minutes then I will come back and redo the measures.

The entire measurement sequence is repeated, up to 3 times, using the following script:

There were too many problems with that set of measurements, so we have to do the test again. I will retake your blood pressure and heart rate, but this time I will remain in the room to monitor the results. Now I will retake your blood pressure and heart rate.

BPM\_D411 Blood pressure norms for respondents 18 or older are calculated.

If measures fall within normal ranges, go to BPM\_END, otherwise go to go to BPM\_R411.

BPM\_R411 Your average blood pressure today was [average systolic BP]/[average diastolic BP] mmHg. Based on a report by the Canadian Coalition for High Blood Pressure Prevention and Control, this means your blood pressure is [above the acceptable range/moderately high/high/very high].

INSTRUCTION: Answer any questions as thoroughly as possible.

BPM\_D412 Blood pressure norms for respondents younger than 18 are calculated.

If measures fall within normal ranges, go to BPM\_END, otherwise go to go to BPM\_R412.

BPM\_R412 Your average blood pressure today was [average systolic BP]/[average diastolic BP] mmHg. Based on The Fourth Report on the Diagnosis, Evaluation, and Treatment of High Blood Pressure in Children and Adolescents, this means your blood pressure is [high/very high].

INSTRUCTION: Answer any questions as thoroughly as possible.

BPM END

# Phlebotomy Component

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Respondents who have hemophilia
- 2. Respondents who have received chemotherapy within the last 4 weeks
- 3. Respondents who have any of the following on both arms: rashes; gauze dressings; casts; edema; paralysis; tubes; open sores or wounds; withered arms or limbs missing; damaged; sclerosed or occluded veins; allergies to cleansing reagents; burned or scarred tissue; shunt or IV on both arms.

#### **Phlebotomy Component Introduction (PHI)**

PHI\_R01 Hi, my name is.... Please have a seat on the bench because I need to ask you a few questions before we begin.

[WARNING: The respondent last ate/drank at [time] [WARNING: The respondent has hemophilia.]

PHI\_END

#### **Blood Collection (BDC)**

- BDC\_Q11 In the past 2 months, that is, from [date two months ago] to yesterday, did you receive a blood transfusion?
  - 1 Yes 2 No
- BDC\_Q12 In the past 2 months, did you donate blood?
  - 1 Yes 2 No DK, RF

(Go to BDC\_Q21) (Go to BDC\_Q21)

#### BDC\_B13 What was the date when you last donated blood?

INSTRUCTION: Enter the day.

|\_|\_| Day (MIN: 1) (MAX: 31)

INSTRUCTION: Select the month.

01	January	07	July
02	February	08	August
03	March	09	September
04	April	10	October
05	May	11	November
06	June	12	December

INSTRUCTION: Enter a four-digit year.

|\_|\_| Year (MIN: 1925) (MAX: 2009)

#### BDC\_Q21 Now I am going to do the blood draw. Have you ever had blood taken?

INSTRUCTION: Explain the procedure to the respondent and try to alleviate any anxiety. RF (Go to BDC END)

BDC\_D21 Determine the blood collection tube labels needed. Print the blood collection tube labels. Attach each label to the appropriate blood collection tube.

- BDC\_N23 INSTRUCTION: Ensure the blood collection tubes are in the correct order. Record which of the required tubes of blood were collected. Mark all that apply.
- BDC\_N24 <u>INSTRUCTION</u>: Record whether the respondent was seated or supine during the blood draw.
  - 1 Seated

2

Supine

BDC\_C25A If respondent refused when first tube of blood was to be drawn, go to BDC\_END. If all required tubes were collected, go to BDC\_END.

**INSTRUCTION:** Record the reason if all required tubes were not collected.

- 1 Respondent refused
- 2 Respondent fainted
- 3 Unable to find vein
- 4 Blood flow stopped
- 5 Physical limitation
- 6 Other Specify

BDC\_END

BDC N25

## **Activity Monitor Component**

To be completed by all respondents except those meeting the exclusion criteria:

1. Respondents in a wheelchair.

#### **Activity Monitor (AM)**

- AM N11 INSTRUCTION: Record whether an activity monitor is available.
  - 1 Yes 2 No

(Go to AM\_END)

As part of this survey we will be measuring the daily activity patterns of our AM R11 participants over a 7 day period. To do this, we would like you to wear an activity monitor for the next 7 days. An activity monitor is a battery-operated electronic device that is worn on a belt around the waist (over the right hip). The monitor records all daily activities as electronic signals, and it does not need to be turned on or off. In fact, as you can see, there are no external displays or buttons. These activity monitors are not like the step counters you may have seen offered as promotional items on cereal boxes. Our activity monitors are much more sophisticated.

INSTRUCTION: Hold up the activity monitor (on the belt) for display.

- AM\_Q11 Would you be willing to wear an activity monitor for the next 7 days?
  - 1 Yes 2

(Go to AM R21)

- No
- INSTRUCTION: Record the reason why the respondent is not willing to wear an AM N12 activity monitor for the next 7 days.
  - Burden 1 2

3

Δ

8

- Invasive
- Aesthetics
- Away during the collection period
- 5 Anticipating change in normal activity
- 6 Sick or laid up 7
  - Worried about losing or damaging the device
  - Other Specify

Go to AM END

AM R21 You are to put the activity monitor on every day as soon as you wake up in the morning and wear it all day until you go to bed at night. You can wear the activity monitor either over or under your clothes, but you must make sure that it is positioned over your right hip, and that the belt is snug.

> INSTRUCTION: Assist the respondent in putting the belt on. Check to ensure the belt fits snugly around the waist and that the activity monitor is positioned over the right hip.

Ensure the monitor is positioned top up and is in line with the supraspinale.

- AM N21 INSTRUCTION: Record whether the respondent took an activity monitor.
  - 1 Yes 2

(Go to AM N31)

- No
- AM N22 INSTRUCTION: Record the reason why the respondent did not take an activity monitor.
  - 1 Burden
  - 2 Invasive
  - 3 Aesthetics
  - 4 Away during the collection period
  - 5 Anticipating change in normal activity
  - 6 Sick or laid up
  - 7 Worried about losing or damaging the device
  - 8 Other - Specify

Go to AM END

INSTRUCTION: To log in the serial number of the activity monitor either read the AM N31 number from the monitor case and manually type this number into the answer field or use the bar code wand to scan the bar code on the monitor case.

> | | | | | | | Serial number (MIN: A000001) (MAX: Z999999)

INSTRUCTION: To log in the waybill number of the pre-paid envelope either read AM N32 the number from the envelope and manually type this number into the answer field or use the bar code wand to scan the bar code on the envelope.

> Waybill number (MIN: AA00000001CA) (MAX: ZZ999999999CA)

AM R33

On [date 8 days after clinic visit] we would like you to put the activity monitor and the belt into this pre-paid envelope. You should put this envelope into any Canada Post mailbox at your earliest convenience. A full description of what the activity monitor is, what it measures, how it works, and why it is important is contained in the handouts in the mail-back envelope.

INSTRUCTION: Show the handouts to the respondent.

AM END

# **Spirometry Component**

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Respondent with a stoma
- 2. Respondents with an acute respiratory condition such as cold, bronchitis, flu.
- 3. Respondents with a significant language barrier.
- 4. Women who are more than 27 weeks pregnant.
- 5. Respondents who have suffered a heart attack within the last 3 months.
- 6. Respondents who have had major surgery on chest or abdomen within the last 3 months.
- 7. Respondents taking medication for tuberculosis.
- 8. Respondents who have difficulty breathing at rest.
- 9. Respondents who have a persistent cough.

#### Spirometry Restriction (SPR)

- SPR\_R11 First I need to ask a couple of health-related questions to make sure we are able to do the lung function test for you today.
- SPR\_Q11 Have you had a heart attack within the past 3 months?
  - 1 Yes 2 No
- SPR\_Q12 Have you had major surgery on your chest or abdomen in the past 3 months?
  - 1 Yes 2 No

(Go to SPM\_END)

(Go to SPM\_END)

SPR\_END

#### Spirometry Measurement (SPM)

SPM\_Q021 For respondents 12 or older:

Now I'd like to measure your lung function using a basic breathing test that greatly depends on effort.

**INSTRUCTION**: Demonstrate the test (without using the mouthpiece).

For respondents younger than 12:

Now I would like to test your lungs to see how well they work.

INSTRUCTION: Demonstrate the test (without using the mouthpiece).

SPM\_N022 <u>INSTRUCTION</u>: Record the appropriate race adjustment for the respondent.

- 1 White, Hispanic or unknown
- 2 Black or Asian

SPM\_N023 INSTRUCTION: Check the data to be sent to the spirometer.

1 Transmit the data

SPM\_R024 <u>INSTRUCTION</u>: Open the KoKo software. Follow the instructions on importing and retrieving respondent information.

In the KoKo patient information screen, chose which set of predicted norms is to be applied:

If respondent is younger than 18 use "Crapo 1981, Polgar (pediatric) 1971"

If respondent is older than 18 use: "Knudson 1976/1983"

In the KoKo patient information screen, choose the respondent's Ethnic Group [White, Hispanic or Unknown (W H U) or Black or Asian (B A)].

SPM\_Q031 For respondents 12 or older:

During the test you will need to wear a nose clip to ensure that no air escapes from your nose. You should sit up straight throughout the test, with both feet flat on the floor. Before we start the test you will put the mouthpiece in your mouth, forming a good seal, with your lips and teeth on the outside of the mouthpiece so that air cannot escape. You will then be asked to take a few normal breaths. At the end of the last normal breath, you should take a big breath in, filling your lungs with as much air as possible. Then you will immediately blast all the air out as forcefully and as quickly as you can. Do not hold your breath before blowing out. Keep blowing out until you have absolutely no air left in your lungs. You may believe there is no more air in your lungs but you must try to keep blowing out for at least 6 seconds. I will be encouraging you to keep blowing, and I will tell you when to stop. When I do, take a big breath in once again.

INSTRUCTION: Demonstrate the test (without using the mouthpiece).

For respondents younger than 12:

During the test I will have you wear a nose clip so that you breathe only through your mouth. You should sit up straight and keep both feet flat on the floor or the stool. Before we start the test you will put the mouthpiece in your mouth, with your lips and teeth on the outside of the mouthpiece, making sure that no air can escape. I will then ask you to take a few normal breaths. At the end of the last normal breath, you should take a big breath in, breathing in as much air as you can. Then you will blast out all the air as hard and as fast as possible. Do not hold your breath before blowing out. Keep blowing out until you have absolutely no air left in your lungs. You may believe there is no more air in your lungs but you must try to keep blowing out for at least 6 seconds. I will be encouraging you to keep blowing, and I will tell you when to stop. When I do, take a big breath in once again.

INSTRUCTION: Demonstrate the test (without using the mouthpiece).

SPM\_Q032 For respondents 12 or older:

I will be giving verbal encouragement throughout the test. To get the best possible result, you really must provide a maximal effort. I need 3 good tests to record your scores but we may do as many as 8 tests to ensure we have the best tests recorded.

Do you have any questions before we begin?

For respondents younger than 12:

I will be talking to you during the test to remind you of what you are supposed to do. To make sure we get the best result, you must try to blow as hard as you can. I need you to do at least 3 good tests to record your scores but we may do as many as 8 tests to ensure we have the best one. Do you have any questions before we begin?

- SPM\_R100 INSTRUCTION: Ensure the spirometry test results have been saved
- SPM\_N901 INSTRUCTION: Why were fewer than 3 trials performed?
  - 1 Respondent unable to continue for health reasons
  - 2 Respondent unable to understand technique
  - 3 Respondent refuses to continue
  - 4 Equipment problem
  - 5 Other Specify \_\_\_\_

Then the following variables are calculated:

- percent predicted Forced Vital Capacity (FVC)
- percent predicted Forced Expiratory Volume (FEV1).
- SPM\_D953 Spirometry norms (FEV1/FVC) are calculated. If results fall within normal range go to SPM\_END. If results are outside of normal range go to SPM\_R961.
- SPM\_R961 Your lung function score today is outside the normal range for your age and sex. We suggest that you see a doctor or regulated health professional to follow-up on your results.

INSTRUCTION: Answer any questions as thoroughly as possible.

SPM\_END

# mCAFT Component

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Respondents who gave a positive response to PAR-Q questions 1, 2, 3 or 6 (automatic) or 4, 5 or 7 (depending upon probing). See PAR-Q in Appendix I.
- 2. Respondents taking heart rate or blood pressure medications.
- 3. Women who are more than 12 weeks pregnant.
- Respondents with resting heart rate ≥ 100 bpm or resting blood pressure > 144/94 mm Hg as determined during the Blood Pressure component.
- 5. Mentally and physically impaired individuals, at the discretion of the Health Measures Specialist. Every effort should be made to be inclusive of individuals with disabilities provided that all safety precautions are taken.
- 6. Respondents who have difficulty breathing at rest.
- Respondents taking medication for a breathing condition that worsens during exercise, but do not have their medication with them (as assessed during the Screening Component).
- 8. Respondents who have given a blood donation in the past 24 hours.
- 9. Respondents who appear ill or complain.s of fever.
- 10. Respondents who have a persistent cough.
- 11. Respondents who have lower extremity swelling.
- 12. Respondents with an insulin pump.
- 13. Respondents with a colostomy bag.
- 14. Respondents who have opted for a home visit.

#### mCAFT Measurement (AFT)

The starting stage and ceiling heart rate are calculated, based on the respondent's age and sex, and are displayed on the screen. For example,

Starting stage :	2
Ceiling heart rate :	152 bpm

AFT\_R10 The next test we are going to do is a stepping test to measure your fitness level. The test will require you to step up and down this set of stairs continuously to music for 3 minutes at a time. In total there are 8, 3-minute stages. You are starting at stage [1 to 8]. During the test you will wear a heart rate monitor so that I can watch your heart rate. At the end of each 3 minute stepping stage you will be asked to stop exercising. Stop where you are and I will check your heart rate to see if you should do another stage. You will continue going through the stages until your heart rate meets a ceiling value for your age and sex. Your ceiling heart rate is [ceiling heart rate in bpm]. If your heart rate is at or above this number then I will stop the test. At the end of the test you will slowly walk around for 2 minutes. Then you will sit down and I will take your blood pressure and heart rate a few more times to make sure that you are recovering well from the test.

<u>INSTRUCTION</u>: Show the heart rate monitor to the respondent and help to put it on.

#### AFT\_R11 For respondents 14 and older:

During the test you need to go up and down the stairs following the beat of the music. The stepping pattern goes like this, "step, step, up, step, step, down". When you are stepping you should never have both feet on the first step at the same time, and you need to make sure that both feet are placed fully on the top step. If you reach the final 2 stepping stages the stepping pattern will change to a single "step up, step down" pattern. I will play the music and show you how the test is done. Do you have any questions?

For respondents younger than 14:

During the test you need to go up and down the stairs following the beat of the music. The stepping pattern goes like this, "step, step, up, step, step, down". When you are stepping you should never have both feet on the first step at the same time, and you need to make sure that both feet are placed fully on the top step. If you reach the final stepping stage the stepping pattern will change to a single "step up, step down" pattern. I will play the music and show you how the test is done. Do you have any questions?

<u>INSTRUCTION</u>: Play the music and demonstrate the stepping pattern at respondent's starting stage.

AFT\_N11 INSTRUCTION: Record the heart rate.

|\_|\_| Heart rate (in beats per minute) (MIN: 30) (MAX: 200)

- NOTE: Record heart rate at the end of each stage up to stage 8. If the ceiling heart rate is reached at any time, stop the test and go to AFT\_R21.
- AFT\_R21 The test is finished. I would like you to slowly walk around for 2 minutes and then I will have you sit down so that I can take your blood pressure and heart rate again.
- AFT\_N22 INSTRUCTION: Record how the data will be captured.
  - 1 Electronically
  - 2 Manually

(Go to AFT\_Q31)

#### Automated Blood Pressure Measurement

AFT\_Q30

Now I will take the first of two post exercise blood pressure and heart rate measurements using this automated blood pressure cuff. During this test you will need to sit with your feet flat on the floor with your back against the back rest of the chair, and have your right arm straight on the table. You should not move or talk during the measurement.

<u>INSTRUCTION</u>: Select the appropriate cuff size based on arm circumference, secure it on the right arm and ensure the respondent is in the correct seated position.

Set the BPTru to collect a single measure (set cycle to SP). Start the BPTru 2 minutes after the respondent has completed the mCAFT. BPR\_N1A <u>INSTRUCTION</u>: Record the systolic blood pressure measurement.

|\_|\_| Systolic blood pressure (in mmHg) (MIN: 30) (MAX: 300)

BPR\_N1B INSTRUCTION: Record the diastolic blood pressure measurement.

|\_|\_| Diastolic blood pressure (in mmHg) (MIN: 30) (MAX: 200)

BPR\_N2 INSTRUCTION: Record the heart rate.

|\_|\_| Heart rate (in beats per minute) (MIN: 30) (MAX: 200)

- BPR\_N3 INSTRUCTION: Record the reason if the measurement could not be taken. Mark all that apply.
  - 5 Deflation too slow
  - 6 Deflation too fast
  - 20 Indeterminate systolic blood pressure
  - 21 Indeterminate diastolic blood pressure
  - 88 Other Specify \_\_\_\_
- NOTE: Go to AFT\_Q40.

#### Manual Blood Pressure Measurement

AFT_Q31	Now I will take the first of two post exercise blood pressure and heart rate measurements. During this test you will need to sit with your feet flat on t floor with your back against the back rest of the chair, and have your righ arm straight on the table with the palm facing up. You should not move or talk during the measurement.	
	<u>INSTRUCTION</u> : Select the appropriate cuff size based on arm circumference, secure it on the right arm and ensure the respondent is in the correct seated position. Determine the maximum inflation level.	
BPR_N1A	INSTRUCTION: Record the systolic blood pressure measurement.	
20	_ _  Systolic blood pressure (in mmHg) (MIN: 30) (MAX: 300)	
BPR_N1B	INSTRUCTION: Record the diastolic blood pressure measurement.	
	_ _  Diastolic blood pressure (in mmHg) (MIN: 30) (MAX: 200)	
BPR_N2	INSTRUCTION: Record the heart rate.	
	_ _  Heart rate (in beats per minute) (MIN: 30) (MAX: 200)	

- BPR\_N3 INSTRUCTION: Record the reason if the measurement could not be taken. Mark all that apply.
  - 5 Deflation too slow
  - 6 Deflation too fast
  - 20 Indeterminate systolic blood pressure
  - 21 Indeterminate diastolic blood pressure
  - 88 Other Specify \_\_\_\_\_

#### AFT\_Q40 I will now take a second blood pressure and heart rate measurement.

<u>INSTRUCTION</u>: Begin the measurement 3.5 minutes after the respondent has completed the mCAFT.

Note: Second and subsequent measurements are captured manually or electronically following the same procedures as were completed for the first measurement.

- AFT\_C49 If [average systolic blood pressure] < 145 and [average diastolic blood pressure] < 95 and [resting heart rate] < 100, go to AFT\_END.
- AFT\_R49 The entire measurement sequence is repeated up to two more times, at 6 minutes and 8 minutes after the respondent has completed the mCAFT, using the following script:

Your [blood pressure and heart rate are/blood pressure is/heart rate is] still high from doing the exercise so please sit and relax for 2 minutes and then I will take your blood pressure and heart rate again.

Then the following variables are calculated:

- oxygen cost
- aerobic fitness score
- aerobic fitness norms for respondents aged 15 to 69
- aerobic fitness norms for respondents younger than 15.
- AFT\_C80 If the heart rate at any of the 8 stages was recorded as "Don't Know" go to AFT\_N81. Otherwise, go to AFT\_END.

INSTRUCTION: Record the reason why the respondent did not complete the test.

Refusal

1

- 2 Unable to maintain proper cadence
- 3 Dizziness
- 4 Extreme leg pain
- 5 Nausea
- 6 Chest pain
- 7 Facial pallor
- 8 Other Specify \_\_\_\_

AFT\_END

AFT N81

# **Grip Strength Component**

To be completed by all respondents except those meeting the exclusion criteria:

1. Respondent gave a positive response(s) to PAR-Q questions 5, 6 and 7 (depending upon probing). See the PAR\_Q in Appendix I.

**Grip Strength Component Introduction (GSI)** 

GSI\_R1 Next I am going to measure your upper body strength with a hand grip dynamometer. You will perform this test two times on each hand, alternating hands each time. When performing the test you hold your hand away from your body, and squeeze the handle as hard as you can, blowing out while you squeeze.

**INSTRUCTION**: Demonstrate the procedure while explaining the technique.

GSI\_R2 Hold the handle so that the 2nd joints of your fingers fit snugly under the handle; we can adjust the size if necessary. Remember, hold your arm straight and away from your body, and squeeze the handle as hard as you can, blowing out while you squeeze.

GSI\_END

#### Grip Strength Measurement (GSM)

GSM_N11	INSTRUCTION: Record the first grip strength measurement for the right hand.
	_ _  Right hand grip strength (in kilograms of pressure) (MIN: 0) (MAX: 120)
GSM_S11	INSTRUCTION: If the measurement could not be taken, specify the reason.
GSM_N12	INSTRUCTION: Record the first grip strength measurement for the left hand.
	Left hand grip strength (in kilograms of pressure) (MIN: 0) (MAX: 120)
GSM_S12	INSTRUCTION: If the measurement could not be taken, specify the reason.
GSM_N21	<u>INSTRUCTION</u> : Record the <u>second</u> grip strength measurement for the <u>right</u> hand.
	[_[_] Right hand grip strength (in kilograms of pressure) (MIN: 0) (MAX: 120)
GSM_S21	INSTRUCTION: If the measurement could not be taken, specify the reason.

GSM\_N22 INSTRUCTION: Record the <u>second</u> grip strength measurement for the <u>left</u> hand.

|\_|\_| Left hand grip strength (in kilograms of pressure) (MIN: 0) (MAX: 120)

GSM\_S22 INSTRUCTION: If the measurement could not be taken, specify the reason.

Then the following variables are calculated:

- total hand grip strength
- grip strength norms for respondents aged15 to 69
- grip strength norms for respondents younger than 15.

GSM\_END

# Sit and Reach Component

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Respondents who gave positive response(s) to PAR-Q questions 5 and 7 (depending upon probing). See the PAR\_Q in Appendix I.
- 2. Women who are more than 12 weeks pregnant.
- 3. Respondents who are 70 or older.
- 4. Respondents who have a colostomy bag.
- 5. Respondents who opted for a home visit.

#### Sit and Reach Component Introduction (SRI)

The next test we're going to do is called a sit-and-reach test, which will SRI\_R1 measure your back and hamstring flexibility. Before we start the test, we will do some stretches to loosen your leg muscles. I will do the stretches with you to show you how they are done. Sit on the floor with one leg out straight and the bottom of your other foot tucked into the straight leg. Reach forward towards the toe of your straight leg only until you feel a slight stretch in the back of your leg. You should not feel pain and you should not bounce. We will hold the stretch for 20 seconds and then we will switch to the other leq. We will do the stretch twice on each leq. INSTRUCTION: Have the respondent sit on the mat in the modified hurdle stretch position. Do the stretch twice on each leg, holding the stretch for 20 seconds each time. Perform the stretches alongside the respondent. Before you do the test you will need to remove your shoes. I will SRI R2 demonstrate how to do it. When doing the test: Sit with your legs out straight in front of you with your feet flat against the board and your legs about 6 inches or 15 cm apart. You must not bend your knees Put your arms straight out in front of you and put your hands on top of one another Reach forward pushing the sliding marker along the scale with your fingertips as far as possible. Do not bounce When you are reaching forward you should breathe out and lower your head to help you reach farther When you have reached as far as you can you must hold your reach for 2 seconds. I will count this aloud for you and tell you when to sit up again INSTRUCTION: Demonstrate the movement while explaining the main points of the test. SRI R3 Do you have any questions before we begin? INSTRUCTION: Answer any questions as thoroughly as possible.

SRI\_END

#### Sit and Reach Measurement (SRM)

SRM\_N01 <u>INSTRUCTION</u>: Record the <u>first</u> sit and reach attempt.

[\_]\_].[\_] Sit and reach (in centimetres) (MIN: 0.0) (MAX: 75.0)

SRM\_S01 <u>INSTRUCTION</u>: If the measurement could not be taken, specify the reason.

SRM\_N02 INSTRUCTION: Record the second sit and reach attempt.

[\_\_\_\_].[\_\_\_ Sit and reach (in centimetres) (MIN: 0.0) (MAX: 75.0)

SRM\_S02 <u>INSTRUCTION</u>: If the measurement could not be taken, specify the reason.

Then the following variables are calculated:

- sit and reach measure
- sit and reach norms for respondents aged 15 to 69
- sit and reach norms for respondents younger than 15.

SRM\_END

# Partial Curl-Up Component

To be completed by all respondents except those meeting the exclusion criteria:

- 1. Positive response(s) to PAR-Q questions 1, 2, 3 (automatic) and 5, 6 and 7 (depending upon probing). See the PAR\_Q in Appendix I.
- 2. Women who are more than 12 weeks pregnant.
- 3. Respondents who are 70 or older.
- 4. Respondents with resting heart rate > 100 bpm or blood pressure > 144/94 mmHg as determined during the screening component.
- 5. Mentally and physically disabled individuals (at the discretion of the HMS).
- 6. Respondents who have difficulty breathing at rest.
- 7. Respondents with a persistent cough.
- 8. Respondent with lower extremity swelling.
- 9. Respondents who appears ill or complains of fever.
- 10. Respondents with a colostomy bag.
- 11. Respondents who opted for a home visit.

#### Partial Curl-Up Component Introduction (PCI)

PCI\_R1 The next test we're going to do is called partial curl-ups, which are similar to sit-ups or crunches. I will demonstrate how to do them correctly and then I will have you try them.

INSTRUCTION: Demonstrate a proper curl-up, and state:

- When curling up, your hands should slide along the surface of the mat and your fingertips must touch the far edge of the metal strap
- When curling down, your head must return to the mat
- You need to curl up on a beep and down on a beep, following the metronome
- You should breathe out when curling up and in when curling down
- Your heels must stay in contact with the mat or floor at all times
- Only good repetitions will be counted to a maximum of 25 (i.e., 1 minute at 50 bpm)
- I will correct your form, but after two bad repetitions the test will be stopped

PCI R2

Now I will have you lie on your back on the mat. Bend your legs to 90 degrees with your legs shoulder width apart. Keep your heels in contact with the mat or floor. I will make sure your legs are at 90 degrees before we start. Place your arms straight by your sides so that your fingertips are touching the edge of the metal strap.

<u>INSTRUCTION</u>: Help the respondent get into position. Use the goniometer to ensure leg angle is 90 degrees. Adjust the metal strap to meet the respondent's fingertips.

PCI\_R3 Remember, in order for a partial curl-up to be counted you must keep the correct form and timing. When doing the test, I will correct you if you do an incorrect curl-up and will allow you to continue if you can. If you are unable to correct your form we will stop the test. A maximum of 25 curl-ups will be done. Do you have any questions?

INSTRUCTION: Answer any questions as thoroughly as possible.

PCI\_R4 I will play the metronome now so that you can listen to the beat. When you are ready you can begin the test.

PCI\_END

#### Partial Curl-Up Measurement (PCM)

 PCM\_N01
 INSTRUCTION: Record the total number of partial curl-ups completed in one minute.

 |\_|\_|
 Number of partial curl-ups (MIN: 0) (MAX: 25)

 PCM\_S01
 INSTRUCTION: If the measurement could not be taken, specify the reason.

 PCM\_D11
 The partial curl-up norms for respondents aged 15 to 69 are calculated.

 PCM\_END
 INSTRUCTION: If the measurement could not be taken, specify the reason.

# **Oral Health Component**

To be completed by all respondents. The probing portion of the oral health exam is to be completed by all respondents except those meeting the exclusion criteria:

- 1. Respondents with hemophilia
- 2. Respondents who have had chemotherapy within the past 4 weeks
- 3. Respondents who answer "yes" to any question in the Oral Health Restrictions block (OHR)
- 4. Respondents who are younger than 15

#### Oral Health Component Introduction (OHI)

OHI\_R01 Hello, my name is ... and I will be recording the results of your dental examination on this computer, and this is ..., a licensed dentist who will be doing your dental exam today. Please sit back in this chair, relax, and make yourself as comfortable as possible.

OHI\_END

#### Oral Health Questions (OHQ)

1 2

3

- OHQ\_R11 First, I have a few questions about the health of your teeth.
- OHQ\_Q11 Do you think you have any untreated dental conditions?
  - 1 Yes 2 No DK, RF (Go to OHQ\_Q21) (Go to OHQ\_Q21)
- OHQ\_Q12 What untreated dental condition(s) do you think you have?

INSTRUCTION: Mark all that apply.

- Prevention
- Fillings
- Temporomandibular joint disorder (TMD)
- 4 Surgery
- 5 Periodontics
- 6 Esthetics
- 7 Endodontics
- 8 Orthodontics
- 9 Soft tissue
- 10 Prosthetics partial or full denture
- 11 Prosthetics implant, bridge or crown
- 12 Other Specify \_\_\_\_\_

OHQ\_Q21 In the past month, that is, from [date last month] to yesterday, have you had a toothache?

- 1 Yes
- 2 No

OHQ_Q22		oast month, have you had pain in your teeth when consuming hot or ods or drinks?
	1 2	Yes No
OHQ_Q23	In the p	ast month, have you had:
	seve	ere tooth or mouth pain at night?
	1 2	Yes No
OHQ_Q24	In the p	ast month, have you had:
	pain	in or around your jaw joints?
	1 2	Yes No
OHQ_Q25	In the p	ast month, have you had:
	othe	er pain in your mouth?
	1 2	Yes No
OHQ_Q26	In the p	past month, have you had bleeding gums when brushing your teeth?
	1 2	Yes No
OHQ_Q27	In the p	ast month, have you had:
	pers	istent dry mouth?
	1 2	Yes No
OHQ_Q28	In the p	ast month, have you had:
	pers	istent bad breath?
40	1 2	Yes No

OHQ\_END

(Go to OHR\_D25)

(Go to OHR\_D25)

(Go to OHR D25)

#### **Oral Health Restriction (OHR)**

OHR_C11	If respondent has hemophilia or has received chemotherapy in the last four
	weeks, go to OHR_END.

- OHR\_R11 Next I need to ask a few health-related questions to make sure we are able to do the complete dental examination for you.
- OHR\_Q11 **Do you have to take antibiotics (for example, penicillin) before you have a check-up or get dental care?** 
  - 1 Yes 2 No
- OHR\_Q12 Have you ever been diagnosed by a health professional with a heart murmur that requires you to take antibiotics for dental treatment?
  - 1 Yes 2 No
- OHR\_Q13 Have you ever been diagnosed by a health professional with a heart valve problem?
  - 1 Yes
  - 2 No

2

- OHR\_Q14 Have you ever been diagnosed by a health professional with:
  - ... congenital heart disease? 1 Yes (Go to OHR\_D25) 2 No
- OHR\_Q15 Have you ever been diagnosed by a health professional with:
  - ... bacterial endocarditis?
    - Yes (Go to OHR\_D25) No

#### OHR\_Q16 Have you ever been diagnosed by a health professional with:

1 Yes (Go to OHR\_D25) 2 No

# OHR\_Q17 Have you had bypass surgery in the past year?

1Yes(Go to OHR\_D25)2No

# OHR\_Q18 **Do you have a pacemaker or other automatic defibrillator?**

1	Yes	(Go to OHR_Q19)
2	No	(Go to OHR_Q20)

OHR_Q19	Have you had your pacemaker or other automatic defibrillator for less than one year?		
	1 2	Yes No	(Go to OHR_D25)
OHR_Q20	Do you	u have other artificial material in your l	neart, veins or arteries?
	1 2	Yes No	(Go to OHR_D25)
OHR_Q21	Have y	ou ever had a joint replacement?	
	1 2	Yes No	(Go to OHR_D25)
OHR_Q22	Have y	ou ever received an organ transplant?	
	1 2	Yes No	(Go to OHR_D25)
OHR_Q23	Do you	u have kidney disease that requires dia	alysis?
	1 2	Yes No	(Go to OHR_D25)
OHR_Q24		ou immuno-supressed or are you on im kample, chemotherapy.)	imuno-suppression therapy?
	1 2	Yes No	
OHR_D25		ondent answered yes to any of the Oral H g will not be performed.	lealth Restriction questions,
OHR_END	2		
<0			

#### Oral Health Examination (OHE)

OHE\_R11 Now I'm going to do a simple dental examination. The only instruments I will use to look at your mouth and teeth are a hand mirror and these explorers. You should not feel any pain and no x-rays will be taken. I just want to get a sense of the health of your teeth and mouth.

> <u>INSTRUCTION</u>: Show the instruments to the respondent. If necessary, demonstrate the explorers on the respondent's fingernail.

- OHE N11 INSTRUCTION: Record the dental status of the respondent.
  - 1 Dentate both arches
  - 2 Dentate upper arch only
  - 3 Dentate lower arch only
  - 4 Edentulous with one or more implants
  - 5 Edentulous
- OHE\_C11 If respondent refuses, go to OHE\_END.
- OHE\_N12 <u>INSTRUCTION</u>: Record the prosthetic status of the <u>upper arch</u> of the respondent. Mark all that apply.
  - 1 No prosthetics
  - 2 Fixed bridge
  - 3 Implant
  - 4 Partial denture acrylic
  - 5 Partial denture cast chrome
  - 6 Full denture
- OHE\_N13 <u>INSTRUCTION</u>: Record the prosthetic status of the <u>lower arch</u> of the respondent. Mark all that apply.
  - No prosthetics
  - 2 Fixed bridge
  - 3 Implant

1

1

- 4 Partial denture acrylic
- 5 Partial denture cast chrome
- 6 Full denture

OHE N14

INSTRUCTION: Record the mucosal status of the respondent. Mark all that apply.

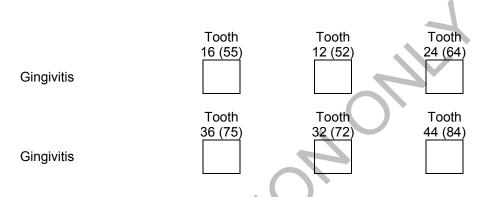
- No mucosal abnormalities
- 2 Angular chelitis
- 3 Mucosal white patches
- 4 Denture stomatitis
- 5 Denture induced hyperplasia (epulis)
- 6 Glossitis
- 7 Sinus or fistula
- 8 Aphthous ulcer
- 9 Traumatic or unspecified ulcer
- 10 Other Specify \_
- OHE\_C15 If OHE\_N14 = 3, go to OHE\_N15. Otherwise go to OHE\_C20.

- OHE\_N15 <u>INSTRUCTION</u>: Record the type of mucosal white patches.
  - 1 Leukoplakia
  - 2 Lichen planus
  - 3 Candidiasis
- OHE\_C20 If OHE\_N11 = 4 or 5, go to OHE\_N51. If respondent is older than 12, go to OHE\_N21.
- OHE\_N20 <u>INSTRUCTION</u>: Record the fluorosis score for the <u>most affected pair</u> of teeth for teeth 12, 11, 21 or 22. If the two teeth are not equally affected, record the score for the less affected of the two.
  - 1 Normal
  - 2 Questionable
  - 3 Very mild
  - 4 Mild
  - 5 Moderate
  - 6 Severe
  - 7 All 4 anterior teeth absent
- OHE\_C21 If OHE\_N11 > 1, go to OHE\_C22.
- OHE\_N21 <u>INSTRUCTION</u>: Record all occlusal conditions that are present. Mark all that apply.
  - 1 Acceptable occlusion
  - 2 Anterior crossbite
  - 3 Severe crowding
  - 4 Severe spacing
  - 5 Posterior crossbite
  - 6 Anterior open bite (> 1 mm)
  - 7 Excessive overbite (100% or more)
  - 8 Excessive overjet (> 9 mm)
  - 9 Midline shift (> 4 mm)
- OHE\_C22 If OHE\_N12 = 6 (Upper arch full denture) and OHE\_N13 = 6 (Lower arch full denture), go to OHE\_N23.
- OHE\_N22 <u>INSTRUCTION</u>: Record the current orthodontic treatment status of the respondent.
  - 1 No orthodontic treatment
  - 2 Removable appliances
  - 3 Fixed appliances
  - 4 Both fixed and removable appliances
  - 5 Retainer post completion
- OHE\_C23 If OHE\_N22 > 1, go to OHE\_C31.
- OHE\_N23 <u>INSTRUCTION</u>: Record whether the respondent has received orthodontic treatment in the past.
  - 1 Yes
  - 2 No

- OHE\_C31 If OHE\_N12 = 6 (Upper arch full denture) and OHE\_N13 = 6 (Lower arch full denture), go to OHE\_N51.
- OHE\_N31 INSTRUCTION: Record the worst score for each tooth.

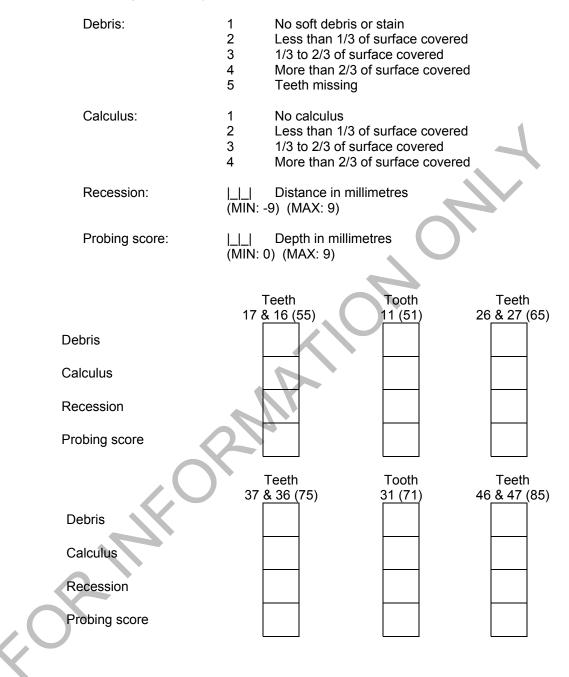
Gingivitis:

- 1 No inflammation
- 2 Mild inflammation
- 3 Moderate inflammation
- 4 Severe inflammation
- 5 Tooth missing



Note: Teeth numbered in brackets indicate primary (baby) teeth and all other teeth numbers indicate permanent teeth.

OHE\_N32 <u>INSTRUCTION</u>: Record the <u>worst</u> score for each condition for each sextant (by tooth or pair of teeth).



OHE N41 For baby teeth, display the following list of categories:

INSTRUCTION: Record the condition of each tooth in the appropriate box.

- 1 Sound - never decayed or restored
- 2 Sound – crown sealed, never decayed or otherwise restored
- 3 Missing - due to orthodontic treatment
- 4 Missing – due to trauma
- Missing due to caries or periodontal disease 5
- 6 Unerupted tooth, congenitally missing or unexposed root
- 7 Decayed severely
- 8 Decayed - pit and fissure caries
- Decayed smooth surface caries 9
- Decayed both smooth surface and pit and fissure caries 10
- 12 Filled with amalgam, no other decay
- Filled with other material (resin, GIC, inlay, crown), no other decay 13
- 14 Filled with amalgam and other material (resin, GIC, inlay, crown), no other decay
- 15 Filled with amalgam, no other decay, but filling is defective and needs replacement
- 16 Filled with other material (resin, GIC, inlay, crown) but filling is defective and needs replacement
- 17 Filled with amalgam and other material (resin, GIC, inlay, crown) but filling is defective and needs replacement
- 20 Fractured due to trauma
- 21 Other

8

9

13

OHE N41 For crowns of adult teeth, display the following list of categories:

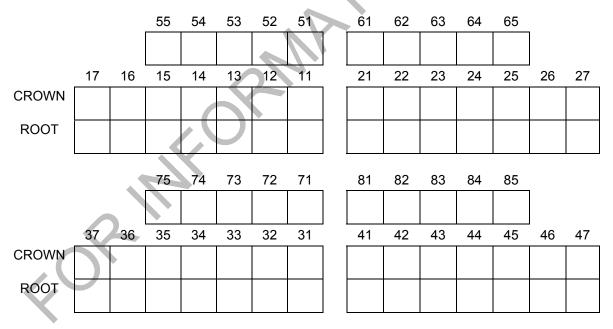
INSTRUCTION: Record the condition of each tooth in the appropriate box.

- Sound never decayed or restored 1
- 2 Sound - crown sealed, never decayed or otherwise restored
- 3 Missing – due to orthodontic treatment
- Missing due to trauma 4 5
  - Missing due to caries or periodontal disease
- 6 Unerupted tooth, congenitally missing or unexposed root 7
  - Decayed severely
  - Decaved pit and fissure caries
  - Decayed smooth surface caries
- 10 Decayed - both smooth surface and pit and fissure caries
- 12 Filled with amalgam, no other decay
  - Filled with other material (resin, GIC, inlay, crown), no other decay
- Filled with amalgam and other material (resin, GIC, inlay, crown), no 14 other decay
- 15 Filled with amalgam, no other decay, but filling is defective and needs replacement
- 16 Filled with other material (resin, GIC, inlay, crown) but filling is defective and needs replacement
- Filled with amalgam and other material (resin, GIC, inlay, crown) but 17 filling is defective and needs replacement
- 18 Bridge abutment, special crown or veneer
- Implant 19
- Fractured due to trauma 20
- Other 21

OHE\_N41 For roots of adult teeth, display the following list of categories. Data entry for respondents younger than 18 is not possible.

INSTRUCTION: Record the condition of each tooth in the appropriate box.

- 1 Sound never decayed or restored
- 3 Missing due to orthodontic treatment
- 4 Missing due to trauma
- 5 Missing due to caries or periodontal disease
- 6 Unerupted tooth, congenitally missing or unexposed root
- 7 Decayed severely
- 11 Decayed smooth surface caries
- 12 Filled with amalgam, no other decay
- 13 Filled with other material (resin, GIC, inlay, crown), no other decay
- 14 Filled with amalgam and other material (resin, GIC, inlay, crown), no other decay
- 15 Filled with amalgam, no other decay, but filling is defective and needs replacement
- 16 Filled with other material (resin, GIC, inlay, crown) but filling is defective and needs replacement
- 17 Filled with amalgam and other material (resin, GIC, inlay, crown) but filling is defective and needs replacement
- 19 Implant
- 20 Fractured due to trauma
- 21 Other

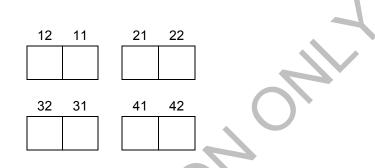


#### NOTE: Data are recorded for each tooth whether or not present.

OHE\_N42 <u>INSTRUCTION</u>: Count and record the number of tooth surfaces with amalgam fillings.

|\_|\_| Count (MIN: 0) (MAX: 95) OHE N43 INSTRUCTION: Record the condition of each tooth in the appropriate box.

- 1 No evidence of traumatic injury
- 2 Unrestored enamel fracture - does not involve dentin
- 3 Unrestored enamel fracture - involves dentin
- 4 Untreated damage - dark discolouration, swelling, fistula
- 5 Restored fracture – full crown
- 6 Restored fracture - other restoration
- 7 Lingual restoration plus history of root canal treatment 8
  - Other



- OHE N51 INSTRUCTION: Record the prosthetic needs of the upper arch of the respondent. Mark all that apply.
  - 1 No prosthetics needed
  - 2 Fixed bridge
  - 3 Implant
  - 4 Denture repair or reline
  - 5 New partial denture
  - 6 New full denture
- OHE\_N52 INSTRUCTION: Record the prosthetic status of the lower arch of the respondent. Mark all that apply.
  - No prosthetics needed
  - Fixed bridge
  - Implant

1 2

3

4

5

6

- Denture repair or reline
- New partial denture
  - New full denture

OHE_N53	<u>INSTRUCTION</u> : Record the treatment currently needed by the respondent. Mark all that apply.
	<ol> <li>No treatment needed</li> <li>Prevention</li> <li>Fillings</li> <li>Temporomandibular joint disorder (TMD)</li> <li>Surgery</li> <li>Periodontics</li> <li>Esthetics</li> <li>Endodontics</li> <li>Orthodontics</li> <li>Soft tissue</li> <li>Other - Specify</li> </ol>
OHE_R60	We have now completed the examination. Thank you for your participation.
OHE_C61	If OHE_N53 = 1, go to OHE_N71. If OHE_N53 = 3, go to OHE_N61. Otherwise go to OHE_C62.
OHE_N61	INSTRUCTION: Record whether the respondent needs fillings urgently (i.e., within a week).
	1 Yes 2 No
OHE_N62	INSTRUCTION: Record whether the respondent needs treatment for Temporomandibular joint disorder (TMD) urgently (i.e., within a week).
	1 Yes 2 No
OHE_N63	INSTRUCTION: Record whether the respondent needs surgery urgently (i.e., within a week).
	1 Yes 2 No
OHE_N64	INSTRUCTION: Record whether the respondent needs periodontics urgently (i.e., within a week).
	2 No
OHE_N65	<u>INSTRUCTION</u> : Record whether the respondent needs endodontics urgently (i.e., within a week).
	1 Yes 2 No
OHE_N66	INSTRUCTION: Record whether the respondent needs orthodontics urgently (i.e., within a week).
	1 Yes 2 No

- OHE N67 **INSTRUCTION:** Record whether the respondent needs soft tissue treatment urgently (i.e., within a week).
  - 1 Yes 2 No
- OHE N68 **INSTRUCTION:** Record whether the respondent needs other treatment urgently (i.e., within a week).
  - Yes 1 2
    - No
- OHE N71 INSTRUCTION: Was a serious medical condition that requires immediate attention discovered during the dental examination?
  - Yes 1 2 No
- (Go to OHE\_END)
- INSTRUCTION: Record the serious medical condition discovered during the OHE\_N72 dental examination.
  - Oral lesion 1
  - 2 Severe acute infection
  - 3 Other - Specify

OHE\_END

# Lab Component

The Lab Component does not require the presence of the respondent but is completed at the mobile clinic during, or soon after, the respondent's visit. Mobile clinic/lab components include initial blood and urine splitting, and complete blood count (CBC) processing. A respondent's specimen is sent for further analysis to three reference laboratories specializing in nutritional analysis, environmental contaminant analysis and infectious disease analysis. The National Microbiology Laboratory in Winnipeg is the storage laboratory for the Canadian Health Measures Survey.

Respondents who so request receive a report of their blood and urine tests 8-12 weeks after the clinic visit.

# **Report of Measurements**

Once all of the clinic components have been completed, a "Report of Measurements" is produced for the respondent.

Then the following additional variables are calculated:

- musculoskeletal fitness norms for respondents aged 15 to 69
- back fitness norms for respondents aged 15 to 69.

<u>INSTRUCTION</u>: Print the Report of Measurements (sample attached in Appendix 2) and associated letters to physicians for urgent conditions (samples attached in Appendix 3) for blood pressure, spirometry and oral health.

## **Exit Component**

To be completed by all respondents.

#### **Exit Component Introduction (ECI)**

- ECI R01
- Before you leave, we have a few administrative questions.

<u>INSTRUCTION</u>: If the dentist identified a serious medical condition that requires immediate attention in OHE\_N71, inform the respondent that he/she should speak with the dentist before leaving the clinic.

ECI\_END

#### Exit Consent Questions (ECQ)

Data Linking

ECQ_R11	We are seeking your permission to combine information collected during
	the Canadian Health Measures Survey with health information from your
	[provincial/territorial] ministry of health or cancer/vital statistics registrars.
	This would include information on past and continuing use of services
	provided at hospitals, clinics, and doctor's offices, or other health services
	provided by the [province/territory], but it does not include personal
	medical information held by your doctor.

- ECQ\_R12 Information collected during the Canadian Health Measures Survey will include:
  - the responses you provided to the interviewer at your home
  - the results of the physical measures tests that you did today
  - [the information that will result from your activity monitor, which you will return to Statistics Canada]
  - [the results of tests to be done in the future on your blood and urine samples, collected today]
  - [the results of tests to be done in the future on your DNA sample]

ECQ\_Q13

The linkage will be done by Statistics Canada, and the results will be used for statistical purposes only. Do we have your permission?

o we have your permission

1 Yes 2 No DK, RF

(Go to ECQ\_R21) (Go to ECQ\_R21)

ECQ\_Q14 Having a [provincial/territorial] health number will assist Statistics Canada in linking the survey data to the [provincial/territorial] health information. Do you have a(n) [province/territory name] health number?

1	Yes	(Go to ECQ_Q16)
2	No	
	DK, RF	(Go to ECQ_R21)

#### ECQ\_Q15 For which [province/territory] is your health number?

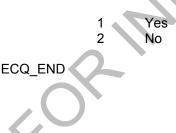
- 10 Newfoundland and Labrador
- 11 Prince Edward Island
- 12 Nova Scotia
- 13 New Brunswick
- 24 Quebec
- 35 Ontario
- 46 Manitoba
- 47 Saskatchewan
- 48 Alberta
- 59 British Columbia
- 60 Yukon
- 61 Northwest Territories
- 62 Nunavut
- 88 Does not have a [provincial/territorial] health number DK, RF (Go to ECQ\_R21)

#### ECQ\_Q16 What is your health number?

<u>INSTRUCTION</u>: Enter a health number. Do not insert blanks, hyphens or commas between the numbers.

#### **Data Sharing**

- ECQ\_R21 Statistics Canada would like to share the information collected during the Canadian Health Measures Survey with Health Canada and the Public Health Agency of Canada. [Your name, address, telephone number and health number / Your name, address and telephone number] will not be shared.
- ECQ\_Q22 Health Canada and the Public Health Agency of Canada will keep the information confidential, and use it for statistical purposes only. Do you agree to share the information?



# Appendices

#### Appendix 1 — PAR-Q

Physical Activity Readiness Questionnaire - PAR-Q (revised 2002)



#### (A Questionnaire for People Aged 15 to 69)

Regular physical activity is fun and healthy, and increasingly more people are starting to become more active every day. Being more active is very safe for most people. However, some people should check with their doctor before they start becoming much more physically active.

If you are planning to become much more physically active than you are now, start by answering the seven questions in the box below. If you are between the ages of 15 and 69, the PAR-Q will tell you if you should check with your doctor before you start. If you are over 69 years of age, and you are not used to being very active, check with your doctor.

Common sense is your best guide when you answer these questions. Please read the questions carefully and answer each one honestly: check YES or NO.

YES	NO				
		1.	Haz your doctor ever said that you have a heart condition <u>and</u> that you should only do physical activity recommended by a doctor?		
		2.	Do you feel pain in your chest when you do physical activity?		
		3.	In the past month, have you had chest pain when you were not doing physical activity?		
		4.	Do you lose your balance because of dizziness or do you ever lose consciousness?		
		5.	Do you have a bone or joint problem (for example, back, knee or hip) that could be made worze by a change in your phyzical activity?		
		6.	ls your doctor currently prescribing drugs (for example, water pills) for your blood pressure or heart con- dition?		
		7.	Do you know of <u>any other reazon</u> why you zhould not do phyzical activity?		
lf you answe	Talk with your doctor by phone or in person BEFORE you start becoming much more physically active or BEFORE you have a fitness appraisal. Tell				
If you ans start b safest : take pa that yo have yo before Informed Use	wered NC ecoming and easie and easie art in a fit u can pla our blood you start cof the PA naire, cons No	) hone much r st way ness a n the b press becon <u>BQ</u> : Th alt you <b>chan</b>	ppraisal – this is an excellent way to determine your basic fitness so best way for you to live actively. It is also highly recommended that you ure evaluated. If your reading is over 144/94, talk with your doctor ming much more physically active. The Canadian Society for Evercise Physiology, Health Canada, and their agents assume no liability for persons who undertake physical activity, and if in doubt after completing in doctor physical activity. anges permitted. You are encouraged to photocopy the PAR-Q but only if you use the entire form.		
NOTE: If the			iven to a person before he or she participates in a physical activity program or a fitness appraisal, this section may be used for legal or administrative purposes.		
		1 hav	e read, understood and completed this questionnaire. Any questions I had were answered to my full satisfaction."		
NAME					
SIGM/TURE			DATE		
Signature of or guardown (		nts und	er On age of majority) WINESS		
*	Ĺ	be	This physical activity clearance is valid for a maximum of 12 months from the date it is completed and comes invalid if your condition changes so that you would answer YES to any of the seven questions.         Society for Exercise Physiology       Supported by:       Health Canada       Santé Canada       continued on other side		

...continued from other side

# PAR-Q & YOU

mas abhusen warm

Physical Activity Readiness Questionnaire - PAR-Q (revised 2002)

# Get Active Your Way, Every Day-For Life!

Scientists say accumulate 60 minutes of physical activity every day to stay healthy or improve your health. As you progress to moderate activities you can cut down to 30 minutes, 4 days a week. Add-up your activities in periods of at least 10 minutes each. Start slowly... and build up.

#### Time needed depends on effort

Very Light Effort	Light Effort 60 minutes	Moderate Effort 30-60 minutes	Vigorous Effort 20-30 minutes	Maximum Effort
• Strolling • Dusting	<ul> <li>Light walking</li> <li>Volleyball</li> <li>Easy gardening</li> <li>Stretching</li> </ul>	• Biking	<ul> <li>Aerobics</li> <li>Jogging</li> <li>Hockey</li> <li>Basketball</li> <li>Fast swimming</li> <li>Fast dancing</li> </ul>	• Sprinting • Racing
	Range	needed to stay	healthy	

#### You Can Do It – Getting started is easier than you think

Physical activity doesn t have to be very hard. Build physical activities into your daily routine.

· Walk whenever you can-get · Start with a 10 minute walk off the bus early, use the stairs gradually increase the time. instead of the elevator. · Find out about walking and · Reduce inactivity for long cycling paths nearby and periods, like watching TV. use them. · Get up from the couch and · Observe a physical activity stretch and bend for a few class to see if you want to try it. minutes every hour. · Try one class to start - you don t · Play actively with your kids. have to make a long-term · Choose to walk, wheel or commitment. cycle for short trips · Do the activities you are doing

#### Choose a variety of activities from these ANADAS three groups: Physical Activity Guide Endurance to Healthy Active Living 4-7 days a week Continuous activities for your heart, lungs Physical activity improves health. and circulatory system. Flexibility Every little bit counts, but more is even 4-7 days a week better - everyone can do it! keep your muscles relaxed Get active your way -Strength build physical activity 2-4 days a week into your daily life.. Activities against resistance to strengthen muscles and • at home bones and improve posture. at school • at work at play Starting slowly is very safe for most people. • on the way Not sure? Consult your health professional. ...that's active living! For a copy of the Guide Handbook and more information: 1-888-334-9769, or



#### Appendix 2 — Sample Report of Measurements

#### **Report of Measurements**

#### Section A: Demographic Information

Date of appointment: Name of respondent: Age of respondent at clinic exam: Gender of respondent: 2007/03/14 HOMER SIMPSON 50 Male

#### Section B: Blood Pressure and Heart Rate

Resting Heart Rate:	85 bpm
Average Systolic Blood Pressure:	145 mmHg
Average Diastolic Blood Pressure:	112 mmHg

Your blood pressure today is <u>high</u>. YOU SHOULD SEE A DOCTOR WITHIN THE NEXT WEEK TO HAVE YOUR BLOOD PRESSURE RECHECKED.

#### Section C: Anthropometric Measures

#### **Body Measurements**

Standing Height:	172 cm	5 ft 8 in
Sitting Height:	86 cm	2 ft 10 in
Weight:	104.5 kg	230 lb
Waist Circumference:	120 cm	47 in
Hip Circumference:	115 cm	45 in
Waist-to-Hip Ratio:	1.04	
Sum of five skinfold measurements:	Not measured	

#### **Composite Measures**

Body Mass Index (BMI):

35.32 kg/m<sup>2</sup>

Your body mass index score classifies you as obese. If you are very obese, you may have a <u>very</u> <u>high risk of developing health problems</u>. For an accurate classification, BMI should be interpreted along with other body composition scores.

#### Body Composition:

(calculated based on waist circumference, sum of five skinfold measurements, and BMI)

Your body composition falls within a range that is generally associated with <u>considerable health</u> <u>risk</u>. We suggest that you see a doctor or regulated health professional to follow-up on your results.

### Section D: Lung Function (Spirometry)

	Measured	Predicted	% Predicted
Forced Vital Capacity (FVC):	3.90 L	5.09 L	76.6 %
Forced Expiratory Volume (FEV <sub>1</sub> ):	2.25 L	3.74 L	60.2 %
FEV <sub>1</sub> /FVC:	0.57		

Your lung function score today is outside the normal range for your age and sex. We suggest that you see a doctor or regulated health professional to follow-up on your results.

Not calculated

77 kg

7.5 cm

#### Section E: Fitness and Strength Tests

#### Modified Canadian Aerobic Fitness Test (mCAFT)

Aerobic Fitness Score:

#### **Grip Strength**

Total hand grip strength: Your score for your age and sex is <u>fair</u>.

#### Sit and Reach

Distance reached: Your score for your age and sex is <u>poor</u>.

#### **Partial Curl-Ups**

Number of partial curl-ups completed: Your score for your age and sex is poor

#### Composite Measures

Musculoskeletal Fitness: (calculated based on grip strength, sit and reach, and partial curl-ups)

Your musculoskeletal fitness falls within a range that is generally associated with <u>considerable</u> <u>health risk</u>. We suggest that you see a doctor or regulated health professional to follow-up on your results.

# Back Fitness: (calculated based on waist circumference, sit and reach, and partial curl-ups)

Your back fitness falls within a range that is generally associated with <u>considerable back health</u> <u>risk</u>. We suggest that you see a doctor or regulated health professional to follow-up on your results.

#### Section F: Oral Health

During the oral health examination today, the dentist had some concerns about the health of your teeth and/or mouth. You are encouraged to visit a dental professional within a week.

These measurements were obtained as part of a survey and do not represent a medical diagnosis. The messages regarding these measurements are generic. Your results should be discussed with a doctor or a regulated health professional.

#### Appendix 3 — Sample Letters to Health Care Provider



#### Blood Pressure Test Results Report

Date of appointment:

2007/03/14

Name:

Result of blood pressure test:

HOMER SIMPSON

Your blood pressure today is <u>high</u>. YOU SHOULD SEE A DOCTOR WITHIN THE NEXT WEEK TO HAVE YOUR BLOOD PRESSURE RECHECKED.

Note: Based on a report by the Canadian Coalition for High Blood Pressure Prevention and Control, 1994

#### To whom it may concern:

**HOMER SIMPSON** was recently a participant in the Canadian Health Measures Survey (CHMS) conducted by Statistics Canada. The CHMS is a national survey that collects information about the general health and health behaviours of Canadians. The information gathered through direct measures of health is essential to evaluate the extent of such major health concerns as diabetes, obesity, hypertension and cardiovascular disease. The results from this survey will also provide researchers with important and precise information about health issues that affect all Canadians.

The survey was conducted in two phases: an interview at the household and a visit to a CHMS clinic. At the clinic, fully trained health professionals took direct measures of health such as blood pressure, height, weight, spirometry, blood and urine samples, physical fitness tests and an oral health examination.

At the clinic a CHMS health measures specialist performed blood pressure testing using an automated blood pressure device (BPTru). After five minutes of quiet rest in a screening room, six blood pressure measurements were taken at one minute intervals, and the average of the last five measurements was calculated.

The tests performed as part of the CHMS are not intended to be used for diagnostic purposes. We have recommended that **HOMER SIMPSON** follow-up on any abnormal test results with a doctor or other regulated health professional.

If you have any questions about the CHMS please contact us, toll-free, at 1-888-253-1087, or visit our website at <u>http://www.statcan.ca</u>.

Sincerely,

CHMS Health Measures Specialist



tics Statistique da Canada





#### **Spirometry Test Results Report**

	007/03/14 OMER SIMPSON		1
	MEASURED	PREDICTED	% PREDICTED
Forced vital capacity (FVC)	3.90 L	5.09 L	76.6 %
Forced Expiratory Volume (FEV <sub>1</sub> )	2.25 L	3.74 L	60.2 %
FEV <sub>1</sub> /FVC	57.7 %		

Your lung function score today is outside the normal range for your age and sex. We suggest that you see a doctor or regulated health professional to follow-up on your results.

Note: Based on Canadian Thoracic Society Guidelines, 2003

#### To whom it may concern:

**HOMER SIMPSON** was recently a participant in the Canadian Health Measures Survey (CHMS) conducted by Statistics Canada. The CHMS is a national survey that collects information about the general health and health behaviours of Canadians. The information gathered through direct measures of health is essential to evaluate the extent of such major health concerns as diabetes, obesity, hypertension and cardiovascular disease. The results from this survey will also provide researchers with important and precise information about health issues that affect all Canadians.

The survey was conducted in two phases: an interview at the household and a visit to a CHMS clinic. At the clinic, fully trained health professionals took direct measures of health such as blood pressure, height, weight, spirometry, blood and urine samples, physical fitness tests and an oral health examination.

At the clinic a CHMS health measures specialist performed lung function testing using spirometry. All respondents performed at least three acceptable manoeuvres within a maximum of eight manoeuvres performed during the testing session. The best test was chosen based on Canadian Thoracic Society criteria. Predicted normal values were based on the Knudson 1976 reference equations and values were corrected for race.

The tests performed as part of the CHMS are not intended to be used for diagnostic purposes. We have recommended that **HOMER SIMPSON** follow-up on any abnormal test results with a doctor or other regulated health professional.

If you have any questions about the CHMS please contact us, toll-free, at 1-888-253-1087, or visit our website at <a href="http://www.statcan.ca">http://www.statcan.ca</a>.

Sincerely,

CHMS Health Measures Specialist





Statistics Canada



#### Oral Examination Results Report

Date of appointment:	2007/03/14	
Name:	HOMER SIMPSON	
Result of oral examination:	a severe acute infection	

To whom it may concern:

**HOMER SIMPSON** was recently a participant in the Canadian Health Measures Survey (CHMS) conducted by Statistics Canada. The CHMS is a national survey that collects information about the general health and health behaviours of Canadians. The information gathered through direct measures of health is essential to evaluate the extent of such major health concerns as diabetes, obesity, hypertension and cardiovascular disease. The results from this survey will also provide researchers with important and precise information about health issues that affect all Canadians.

The survey was conducted in two phases: an interview at the household and a visit to a CHMS clinic. At the clinic, fully trained health professionals took direct measures of health such as blood pressure, height, weight, spirometry, blood and urine samples, physical fitness tests and an oral health examination.

At the clinic a CHMS dentist performed an oral examination and noticed a severe acute infection in **HOMER SIMPSON**'s mouth. This is a serious medical condition requiring immediate attention from either a dental or a medical professional.

The tests performed as part of the CHMS are not intended to be used for diagnostic purposes. We have recommended that **HOMER SIMPSON** follow-up on any abnormal test results with a doctor or other regulated health professional.

If you have any questions about the CHMS please contact us, toll-free, at 1-888-253-1087, or visit our website at <u>http://www.statcan.ca</u>.

Sincerely,

CHMS Dentist



