

#### **MULTICENTER OSTEOARTHRITIS STUDY**

### **ANNOTATED DATA COLLECTION FORMS**

152- AND 160-MONTH FOLLOW-UP DATASETS

March 2023

This document displays the MOST data collection forms annotated with the variable names and data values that are used for the instruments and measurements conducted at the 152- and 160-month time points.

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#### **ANALYST NOTES**

#### Released Variables

Released variables are displayed in bold blue font.

Example: MOSTID

#### Variables Not Released

Variables not released are displayed in gray font and lined out.

Example: **V8SDAT2** 

<u>Note</u>: Where all the variables on a page are not released, the page is crossed out with an "X".

#### Calculated Variables

The calculated variables (V8CALC) are displayed throughout the forms in bold blue font within a text box.

Example: **V8MCOMOR** 

KPN30L 1Yes 0No

8Don't know

M	OST ID: AANNNN MOSTID  COHORT 1=Origina
Vi	crostic: AAAA ACROSTIC sit: 3 8-month/152-month 4 16-month/160-mont VISIT ate interview completed: /TIDIFF
St	aff ID#: ANN
	IOST Interim Telephone Interview
	rections: Confirm that this is the correct participant. Ask their name, and confirm in the articipant's chart that the name matches the MOST ID # and Acrostic at the top of this form.
	would like to start by asking you about any problems with your knees <u>during the past 30</u> ys."
Ri	ght knee
"Fi	rst your <u>right knee</u> ."
1.	During the <u>past 30 days</u> , have you had any <u>pain, aching, or stiffness</u> in your <u>right</u> knee?  PN30R  1Yes (Go to Q#1a.)  ONo (Go to Q#2.)  BDon't know/Refused (Go to Q#2.)
	1a. During the <u>past 30 days</u> , have you had pain, aching, or stiffness in your <u>right</u> knee <u>on most days</u> ? By 'most days,' we mean more than half the days of a month. <u>KPN30R</u> 1Yes
	0No 8Don't know KNR
Le	ft knee
"N	ow your <u>left knee</u> ."
2.	During the <u>past 30 days</u> , have you had any <u>pain</u> , <u>aching</u> , <u>or stiffness</u> in your <u>left</u> knee? PN30L 1Yes (Go to Q#2a.) ONO (Go to Q#3.) BDon't know/Refused (Go to Q#3.)
	2a. During the <u>past 30 days</u> , have you had pain, aching, or stiffness in your <u>left</u> knee <u>on most days</u> ? Again, by 'most days,' we mean more than half the days of a month.

**KNL** 

Vallable Prefix V8 for Dataset V8ENROLL (pgs. 1-10)



# MOST Interim Telephone Interview

## Scoring for WOMAC Likert 3.1

MOST uses a modified version of the WOMAC Likert 3.1 instrument. WOMAC is a registered trademark (CDN No. TMA 545,986), Copyright 1996 Nicholas Bellamy, All Rights Reserved. This copyrighted instrument may not be displayed. Therefore collection of actual questions are not being displayed.

Please go to: http://www.womac.org for more information about the WOMAC Likert 3.1.

## WOMAC subscales

There are three WOMAC subscales: pain, stiffness and disability. The time period covered by the subscales is the "past 30 days." Subscale scores are the sum of individual item scores for all items in the subscale.

#### Knee pain

The individual items in the pain subscale are:

Activity	Variable (right knee)	Variable (left knee)
Walking	Q1KR	Q1KL
Up stairs	UPR	UPL
Down stairs	DOWNR	DOWNL
Stairs (calculated)	Q2KR	Q2KL
In bed	Q3KR	Q3KL
Sit or lie down	Q4KR	Q4KL
Standing	Q5KR	Q5KL

Each knee pain item is scored on a 5-point scale:

0 = None

1 = Mild

2 = Moderate

3 = Severe

4 = Extreme

5 = Don't do\*
.M = Missing

\*The following variables have the 5 (don't do) scoring option: UPR, UPL, DOWNR, and DOWNL. "Don't do" is set to missing.

The pain subscale scores are calculated for the right and left knee separately. The pain subscale possible score range is 0-20.

<u>Score</u>	Variable (right knee	Variable (left knee	
Pain subscale scores	WOPNKR		WOPNKL



#### Disability

The individual items in the disability subscale are:

Activity	Variable (either knee)		
Down stairs	Q8K		
Up stairs	Q9K		
Stand from sitting	Q10K		
Standing	Q11K		
Bending	Q12K		
Walking	Q13K		
In car/out of car	Q14K		
Shopping	Q15K		
Socks on	Q16K		
Get out of bed	Q17K	The People of Levels of	
Socks off	Q18K	i ne disability subscale po	ossible score range is 0-68.
Lying down	Q19K		
Bathing	Q20K	<u>Score</u>	Variable (either knee)
Sitting	Q21K		
On/off toilet	Q22K	Disability subscale scores	WOPASK
Heavy chores	Q23K		
Light chores	Q24K		

Each disability item is scored for difficulty with the same scale used for pain and stiffness (see previous page).

#### Score calculations

An individual response of:

5 = Don't do.M = Missing

For any item is treated as missing data.

Modified WOMAC Osteoarthritis Index Likert Version 3.1 (1996). Subscales are for knee pain, physical function, and degree of difficulty (when physically active). In addition to asking about degree of physical difficulty going up stairs and going down stairs, in MOST we also ask separate knee pain questions regarding going up stairs and going down stairs. The stair climbing calculation was based on the highest response value of the two questions. If there is one missing answer and one non-missing answer for the stair climbing questions, the non-missing answer is used. Subsets of the questions have a "don't do" response option. If the participant chose the "don't do" response, the score for that question was set to missing when computing WOMAC scores. Participant responses are all based on the past 30 days.

The WOMAC knee calculated variable and subscales were calculated based on code from Jingbo Niu at Boston University (Framingham Study).

The method used to handle missing values (ie., participant fails to/refuses to complete all questions) is consistent with the suggestion from the WOMAC User's Guide (Nicholas Bellamy) for how missings should be treated: "If >= two pain, both stiffness, or >= four physical function items are omitted, the patient's response is regarded as invalid and the deficient subscale(s) should not be used in analysis. Where one pain, or 1-3 physical function items are missing, we suggest substituting the average value for the subscale in lieu of the missing item value(s). This method is similar to that employed for other indices (e.g., SF-36)."

#### Other joint pain

"Still focusing on your experience in the past 30 days, the following questions are about pain, aching or stiffness in joints other than your knees."

During the <u>past 30 days</u>, have you had pain, aching or stiffness <u>on most days</u> in any joints other than your knees, including your back and neck? <u>JPAIN</u>
 1Yes (Go to Q#6a.)

<sub>0</sub>No (Go to Q#7.)

gDon't know/Refused (Go to Q#7.)

"I am going to ask about specific joints. Please tell me if you have had pain on the right, left, both sides, or neither side."

During the <u>past 30 days</u>, have you had pain, aching or stiffness <u>on most days</u> in ...(Interviewer note: If yes, ask whether the pain was on the right, left or both sides.)

6a. Either hi	p? <b>HIP30</b>	-			<u> </u>		
1 right	2left	<b>3</b> both	4neither	HIPR	HIPL		
<b>6b.</b> Either ankle? <b>ANKL30</b>							
	2left		4neither	ANKLR	ANKLL		
<b>6c.</b> Either fo	6c. Either foot? FEET30						
	2left	<b>3</b> both	4neither	FOOTR	FOOTL		
<b>6d.</b> Either sh	noulder? SI	HDR30					
	2left		4neither	SHDRR	SHDRL		
<b>6e.</b> Either el	6e. Either elbow? ELB30						
1 right	2left	<b>3</b> both	4neither	ELBR	ELBL		
6f. Either wrist? WRST30							
	2left		4neither	WRSTR	WRSTL		
Co. Citle and to	0 F:1						
<b>6g.</b> Either ha				HANDR	HANDL		
1 right	2left	<b>3</b> both	4neither	111 17 17			

During the **past 30 days**, have you had pain, aching or stiffness on most days in your ...

6h. Neck? NECK

1yes ono

6i. Lower back? LB

1yes ono

-WSPA

-WSPB

-WSPB

WSPC

6j. Middle or upper back? MUB

1yes ono

\_LBP

#### Constant knee pain - Right

"The next questions are about knee pain again, but this time please answer based on <u>your experience in just the past 7 days</u>. People have told us that they experience different kinds of pain (including aching, stiffness, or discomfort) in their knee. I would like to ask you about any 'constant pain' (pain you have all the time) separately from any pain that you may experience less often, that is, 'pain that comes and goes.' First your right knee."

```
7. In the past 7 days, have you had constant pain (pain that you have all the time) in or around your right knee? CKCP7R

1 Yes (Go to Q#7a.)

0 No (Go to Q#8.)

8 Don't know/Refused (Go to Q#8.)
7a. In the past 7 days, how intense has your constant pain in your right knee been? INCP7R

0 Not at all

1 Mildly

2 Moderately

3 Severely

4 Extremely

8 Don't know

7 Refused
```

#### Intermittent knee pain - Right

8. In the past 7 days, have you had intermittent pain (pain that comes and goes) in or around your right knee? INTP7R

1Yes (Go to Q#8a.)

0No (Go to Q#9.)
8Don't know/Refused (Go to Q#9.)

**8a**. In the <u>past 7 days</u>, how frequently has this <u>pain that comes and goes in your right knee</u> occurred? **FRQP7R** 

```
1Rarely
2Sometimes
3Often
4Very often
8Don't know
```

#### Constant knee pain – Left

"Now for your left knee. I'm going to ask you about any 'constant pain' (pain you have all the time) <u>separately</u> from any pain that you may experience less often, that is, 'pain that comes and goes'".

9. In the past 7 days, have you had constant pain (pain that you have all the time) in or around your left knee? CKCP7L

1Yes (Go to Q#9a.)

0No (Go to Q#10.)

8Don't know/Refused (Go to Q#10.)
9a. In the past 7 days, how intense has your constant pain in your left knee been? INCP7L

0Not at all

1Mildly

2Moderately

3Severely

4Extremely

8Don't know

7Refused

#### Intermittent knee pain - Left

10. In the <u>past 7 days</u>, have you had intermittent pain (pain that comes and goes) in or around your <u>left</u> knee? <u>INTP7L</u> 1Yes (Go to Q#10a.)

1103 (00 10 Q#108.)

<sub>0</sub>No (Go to Q#11.)

gDon't Know/Refused (go to Q#11.)

10a. In the <u>past 7 days</u>, how frequently has this <u>pain that comes and goes in your left knee</u> occurred? FRQP7L

1Rarely

2Sometimes

3Often

Very often

8Don't know

7Refused

#### Knee buckling

"For the next questions, please answer for the time period <u>since we last spoke with you in</u> <i style="color: blue;">insert month and year>.

We are interested in knee buckling or your knee 'giving way'. Sometimes you may feel as if your knee is going to buckle or give way but it doesn't actually do so. That does not count."

```
11. Since we last spoke with you in <insert month and year> has either of your knees buckled
   or given way at least once? KBUCK
   1Yes (Go to Q#11a.)
   No (Go to Q#12.)
   gDon't know/Refused (Go to Q#12.)
   11a. Which knee buckled or gave way at least once? KBS
        1Right knee
        2Left knee
        3Both knees
        8Don't know which knee
   11b. Counting all times and both knees, how many times have your knees buckled? If you
        are unsure, make your best guess. KBTOT
        11 time
        22 to 5 times
       36 to 10 times
        411 to 24 times
        5More than 24 times
        8Don't know
   11c. As a result of knee buckling or giving way, did you fall and land on the floor or ground?
       FALL
        1Yes
        oNo
        8Don't know
12. Because of concern about buckling or 'giving way' in your knees, have you changed or
   limited your usual activities in any way? LMBUCK
   1Yes
   ONo (Go to Q#13.)
   Don't know/Refused (Go to Q#13.)
```

#### **Falls**

"The next questions are about falls since we spoke to you in <insert month and year>."

```
13. Have you fallen and landed on the floor, ground, or stairs? Include any falls due to knee
   buckling. (Do NOT include being knocked down by a moving person or vehicle, falling off of
   a bicycle or while playing a sport, or falling from a height like off a ladder.) FALLG
   1Yes (Go to Q#13a.)
   No (Go to Q#14.)
   8Don't know/Refused (Go to Q#14.)
           13a. How many times have you fallen? FALLT
           If you are unsure, please make your best guess.
           1One
          <sup>2</sup>Two or three
           3Four or five
           Six or more
          8Don't know
           13b. Were you injured as a result of a fall? FALLIN
           1Yes (Go to Q#13bi.)
          No (Go to Q#14.)
          8Don't know (Go to Q#14.)
                     13bi. Please indicate what type of injury.
                     Fracture FALLFX
                                                                                   1yes ono
                     Sprained or dislocated joint (wrist, knee, ankle, etc.) FALLSP 1yes 0no
                     Pulled or torn muscle, tendon, or ligament FALLPU
                                                                                  1yes ono
                                                   FHEAD
                     Head injury or concussion
                                                                                  1yes ono
                     Other injury
                                    FALLOT
                                                                                  1yes ono
                                                                            )
                     13bii. Did you receive treatment from a doctor for any of these injuries?
                     FALLD
                     Yes
                     oNo
                     8Don't know
                     13biii. Did you limit your usual activities for more than a day because of
                     an injury from a fall? FALLL
                     1Yes
                     oNo
                     8Don't know
```

#### Knee injury

"The next two questions are about knee injuries since we spoke to you in <**insert month and year**>."

- **14.** Have you injured your <u>right</u> knee badly enough to limit your ability to walk for at least two days? **LAR** 
  - 1Yes
  - No
  - **8**Don't know/Refused
- 15. Have you injured your <u>left</u> knee badly enough to limit your ability to walk for at least two days? <u>LAL</u>
  - 1Yes
  - No
  - 8Don't know/Refused

#### Knee surgery - Right knee

"The next questions are about knee surgeries since we spoke to you in <*insert month and year*>."

"First your right knee"

**16.** Did you have any <u>surgery</u> in your <u>right</u> knee? **SURGR** 

1Yes (Go to Q#16a.)

- <sub>0</sub>No (Go to Q#17.)
- gDon't know/Refused (Go to Q#17.)
- **16a.** Did you have a <u>right knee replacement</u>, where all or part of the joint was replaced?

Yes (Interviewer note: Please complete the Event Notification Form and mark Right Knee Replacement.)

No

Don't know

**16b.** Did you have another kind of surgery in your right knee?

Yes

No

Don't know

#### Knee surgery - Left knee

```
"Now your left knee."
```

17. Did you have any surgery in your left knee? SURGL

```
1Yes (Go to Q#17a.)
```

```
ONo (Go to Q#18.)
```

gDon't know/Refused (Go to Q#18.)

17a. Did you have a left knee replacement, where all or part of the joint was replaced?

Yes (Interviewer note: Please complete the Event Notification Form and mark Left Knee Replacement.)

No

Don't know

**17b.** Did you have <u>another kind of surgery</u> in your <u>left</u> knee?

Yes

No

Don't know

#### **Hip surgery**

"Now I'm going to ask about hip surgeries since we spoke to you in <insert month and year>."

18. Did you have a <u>right hip replacement</u>, where all or part of the joint was replaced? <del>THRR</del> Yes (Interviewer note: Please complete the Event Notification Form and mark Right Hip Replacement.)

No

Don't know/Refused

19. Did you have a <u>left hip replacement</u>, where all or part of the joint was replaced?—THRL—Yes (Interviewer note: Please complete the Event Notification Form and mark Left Hip Replacement.)

No

Don't know/Refused

#### <u>Hospitalizations</u>

20. Since we spoke to you in <insert month and year> have you been hospitalized overnight?
HOSP

1Yes (Go to Q#20a.)

nNo

8Don't know/Refused

20a. How many total days since <insert month and year> were you in the hospital?\_\_\_\_\_ HOSPDAY

NOTE: use value 29 for days reported 30 or more

THANK YOU