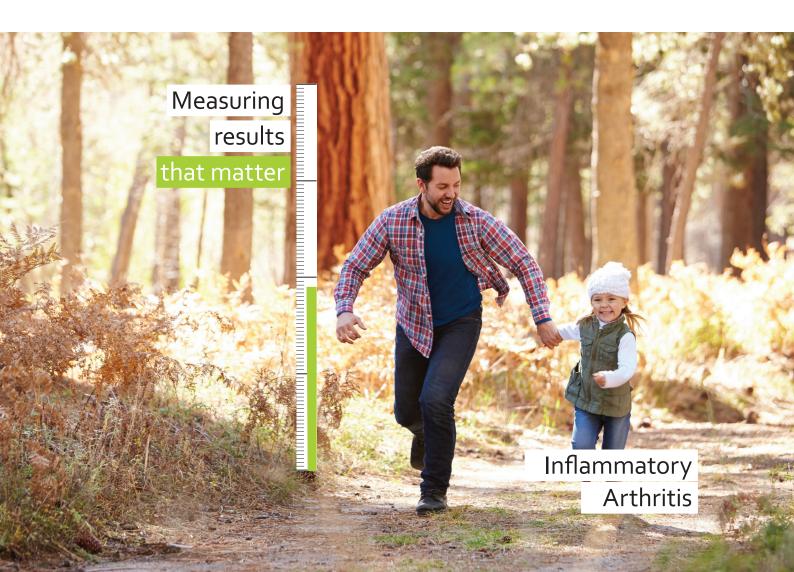


### INFLAMMATORY **ARTHRITIS DATA COLLECTION REFERENCE GUIDE**

Version 1.0.0 Revised: April 27<sup>th</sup>, 2018





We are thrilled that you are interested in measuring outcomes for your patients with inflammatory arthritis according to ICHOM standards. It is our hope that this Reference Guide will facilitate the process of implementing our Standard Set and ensure collection of comparable data for global benchmarking and learning.

© 2018 ICHOM. All rights reserved. When using this set of outcomes, or quoting therefrom, in any way, we solely require that you always make a reference to ICHOM as the source so that this organisation can continue its work to define more standard outcome sets.

### Introducing ICHOM and the Reference Guide

ICHOM brings together patient representatives, clinician leaders, and registry leaders from all over the world to develop Standard Sets, comprehensive yet parsimonious sets of outcomes and case-mix variables we recommend all providers track.

Each Standard Set focuses on patient-centered outcomes, and provides an internationally-agreed upon method for measuring each of these outcomes. We do this because we believe that standardised outcomes measurement will open up new possibilities to compare performance globally, allow clinicians to learn from each other, and rapidly improve the care we provide our patients.

Our Standard Sets include initial conditions and risk factors to enable meaningful case-mix adjustment globally, ensuring that comparisons of outcomes will take into account the differences in patient populations across not just providers, but also countries and regions. A comprehensive data dictionary, as well as scoring guides for patient-reported outcomes is included in the appendix.

Our aim is to make Standard Sets freely accessible to healthcare institutions worldwide to begin measuring, and ultimately benchmark the outcomes they achieve. In order to have a guide from which we can benchmark outcomes, we require feedback from initial implementation efforts. As such, this Reference Guide may undergo revisions on a regular basis. If you have any suggestions or would like to provide feedback, please contact implement@ichom.org

### Working Group Members for Inflammatory Arthritis

The following individuals dedicated both time and expertise to develop the ICHOM Standard Set for Inflammatory Arthritis in partnership with ICHOM, under the leadership of Prof. Mart van de Laar and Dr. Harald Vonkeman, Rheumatologists at the University of Twente, Netherlands.

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Israel	New Zealand	Delphine Courvoisier	
Meray Lidar	William Taylor		

### **Supporting Organisations**

The Inflammatory Arthritis Standard Set is made possible only through the support of the following organisations.

Thank you.















# Conditions and Treatment Approaches Covered for Inflammatory Arthritis

All treatment options and the following conditions are covered by our Standard Set.

Conditions

Rheumatoid Arthritis | Psoriatic Arthritis

Ankylosing Spondylitis | Juvenile Idiopathic Arthritis

DATA COLLECTION REFERENCE GUIDE

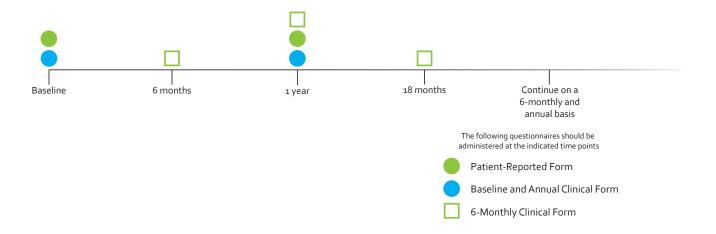
# ICHOM Standard Set for Inflammatory Arthritis Overview

### Case-Mix Variables

Patient Population	Measure	Supporting Information	Timing	Data Source
<b>Demographic Factor</b>	'S			
	Age	Age in years	_	
All patients	Sex	Sex at birth	Baseline	Patient-reported
	Education level	Highest attained education		
Baseline Clinical Sta	tus			
All patients	Smoking	N/A	Baseline	Patient-reported
Baseline Clinical Sta	tus			
	Comorbidities		Baseline	
All patients	Physician-reported inflammatory arthritis diagnosis	N/A	Baseline and annually	Clinical
	Disease duration	-	Baseline	
RA & JIA patients	Immunological	Rheumatoid factor and ACPA	Baseline	Clinical or Administrative data
Outcomes over Patient Population	view Measure	Supporting Information	Timing	Data Source
Patient-Reported Ou	utcomes			
All patients	Pain Fatigue Activity limitation Overall emotional and physical health impact	- Measured on a standardised - reporting metric	Baseline and annually	Patient-reported
	Work/school/		WPAI tool	
	housework ability and productivity	Tracked via WPAI tool		
Treatment-Specific	housework ability and	Tracked via WPAI tool		
Treatment-Specific	housework ability and productivity			
Treatment-Specific	housework ability and productivity  Serious adverse	Categorised by FDA	Racalina and	
Treatment-Specific	housework ability and productivity		Baseline and annually	

### Follow-Up Timeline and Sample Questionnaires

The following timeline illustrates when Standard Set variables should be collected from patients, clinicians, and administrative sources. Links to the sample questionnaires may be found in the legend below.



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### Collecting Patient-Reported Outcome Measures

The ICHOM inflammatory arthritis working group recommends that each of the patient-reported outcome domains listed in the table below are measured using one PROM tool per outcome domain. For each of the PROM outcome domains included in the ICHOM inflammatory arthritis Standard Set, users can choose one instrument from the selection of PROMs listed in the table below. Scores on these instruments have been linked to a standardised reporting metric, so that outcomes can be compared between users of the set that have chosen to use a different instrument with their patients. To obtain linked scores, visit: <a href="http://tihealthcare.nl/en/expertise/common-metrics">http://tihealthcare.nl/en/expertise/common-metrics</a>

Patient-reported outcome domain	Inflammatory arthritis survey used	Population	Licensing Information	Link to questionnaire
Pain	Numerical rating scale	- Adult/paodiatric	Free	Refer to Reference Guide Appendix
	Visual analogue scale	Adult/paediatric		
	SF-36 bodily pain		Licensing fee may apply	
	RAND bodily pain	Adult	Free	http://bit.ly/RSF-36
	PROMIS pain interference		Use of short form is free	http://bit.ly/PIAdult
	PedsQL 3.0 Arthritis module pain and hurt	Paediatric	Licensing fee applies, Free for non-funded academic research	http://bit.ly/PedsAM
	Numerical rating scale	A 1 107 12 12 12	_	Refer to Reference Guide Appendix
	Visual analogue scale	Adult/paediatric	Free	
	FACIT-F		Free for English version	http://bit.ly/FACIT-F
Fatigue	BRAF-MDQ	Adult	Free	http://bit.ly/BRAFIA
	PROMIS fatigue		Use of short form is free	http://bit.ly/PAFatigue
	PedsQL4.0 SF 15 Generic Core Scales Fatigue	Paediatric	Licensing fee applies http://bit.ly/	http://bit.ly/PedsQLFatigue
	HAQ-II		Free	http://bit.ly/HAQIIIA
	HAQ-DI	Adult		http://bit.ly/HAQ-DI
	MD-HAQ			http://bit.ly/IAMDHAQ
Activity limitation	PROMIS Physical Function		Use of short form is free	http://bit.ly/PFAdult
	BASFI		Free	http://bit.ly/IABASFI
	C-HAQ	Paediatric		http://bit.ly/C-HAQ
	JAMAR	- Adult/paediatric		http://bit.ly/JAMAR
	Numerical rating scale		Free	Refer to Reference Guide Appendix
	Visual analogue scale			
Overall emotional and physical	EQ-5D-5L		Licensing fee may apply	http://bit.ly/EQ5D5L
health impact	SF-6D	Adult		http://bit.ly/SF-6D
	RAID		Free	http://bit.ly/RAIDIA
	PSAID			http://bit.ly/PSAIDCP
	CIHQ	Paediatric		
	WPAI	Adult	Free	http://bit.ly/RAWPAI
Work/school/housework ability and productivity	PedsQL4.0 SF 15 Generic Core Scales School Functioning	Paediatric	Licensing fee may apply	http://bit.ly/PedsQOL

### The Growing ICHOM Community

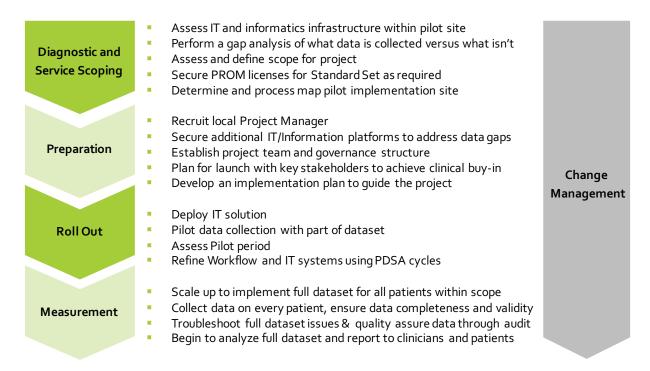


International Consortium for Health Outcomes Measurement

There is a growing community of healthcare providers implementing the ICHOM Standard Sets. To support your organisation in implementing the set and the measurement of outcomes data, we have outlined a framework to guide the implementation and reporting of patient-centered outcomes. For further information or to enquire about Implementation support offered by ICHOM, please contact the Implementation team: implement@ichom.org

#### Implementation framework:

The framework below, outlines the structured process to guide the implementation of an ICHOM Standard Set at your organisation. Typically an implementation project takes 9 months to complete.



#### ICHOM is also able to support organisations with a variety of support models:

- 1. Capacity building direct advisory support
- 2. Community models supporting a community of providers in outcomes adoption and innovation
- 3. Education workshops and short courses regarding Value Based Healthcare and implementation skills



#### **Translating the Set Tools:**

PROMs within the ICHOM Sets are available in a number of languages. To check the availability of translations, we advise contacting the Tool authors directly to obtain and translate the PROM surveys into your desired language. To independently translate PROM surveys, we recommend following the 10 steps outlined below:\*

Step 1	Preparation	Initial work carried out before the translation work begins
Step 2	Forward Translation	Translation of the original language, also called source, version of the instrument into another language, often called the target language
Step 3	Reconciliation	Comparing and merging more than one forward translation into a single forward translation
Step 4	Back Translation	Translation of the new language version back into the original language
Step 5	Back Translation Review	Comparison of the back-translated versions of the instrument with the original to highlight and investigate discrepencies between the original and the reconciled translation, which is then revised in the process of resolving the issues
Step 6	Harmonization	Comparison of back translations of multiple language versions with each other and the original instrument to highlight discrepencies between the original and its derivative translations, as well as to achieve a consistent approach to translation problems
Step 7	Cognitive Debriefing	Testing the instrument on a small group of relevant patients or lay people in order to test alternative wording and to check understandability, interpretation, and cultural relevance of the translation
Step 8	Review of Cognitive Debriefing Results and Finalisation	Comparison of the patients' or lay persons' interpretation of the translation with the original version to highlight and amend discrepencies
Step 9	Proofreading	Final review of the translation to highlight and correct any typographic, grammatical or other errors
Step 10	Final Report	Report written at the end of the process documenting the development of each translation

<sup>\*</sup>These ten steps follow the ISPOR Principles of Good Practice:The Cross-Cultural Adaptation Proccess for Patient-Reported Outcomes Measures <sup>1</sup> Wild, D., Grove, A., Martin, M., Eremenco, S., McElroy, S., Verjee-Lorenz, A., et al. (2005). Principles of good practice for the translation and cultural adaptation process for patient-reported outcomes (PRO) measures: Report of the ISPOR task force for translation and cultural adaptation. Value in Health, 8(2), 94–104. doi:10.1111/j.1524-4733.2005.04054.x.

For any questions about implementation please contact us at: implement@ichom.org

Appendix

### Introduction to the Data Dictionary

This data dictionary is designed to help you measure the ICHOM Inflammatory Arthritis Standard Set as consistently as possible to the Working Group recommendation. ICHOM is actively preparing for benchmarking efforts based on this data, and all data submitted for comparisons will need to be transformed into the following data structure if not already structured as such. We are happy to provide an Excel version of this data dictionary for technical use.

Please timestamp all variables. Some Standard Set variables are collected at multiple timepoints, and we will ask you to submit these variables in a concatenated VARIABLEID\_TIMESTAMP form for future analyses. For example, VARIABLEID\_BASE (baseline); VARIABLEID\_6MO (6 month follow-up); VARIABLEID\_1YR (1 year follow-up), etc.

Case-Mix Variables

CASE-MIX VARIABLES

Variable ID: N/A
Variable: Patient ID

**Definition:** Indicate the patient's medical record number

**Supporting Definition:** This number will not be shared with ICHOM. In the case patient-level data is

submitted to ICHOM for benchmarking or research purposes, a separate ICHOM Patient Identifier will be created and cross-linking between the ICHOM Patient Identifier and the medical record number will only be known at the treating

institution

Inclusion Criteria: All patients

Timing: On all forms

**Data Source:** Administrative or clinical

Type: Numerical

**Response Options:** According to institution

#### **Demographic Factors**

Variable ID: AGE

Variable: Age

**Definition:** Indicate the patient's age **Supporting Definition:** Recorded as year of birth

Inclusion Criteria: All patients

Timing: Baseline

Data Source: Patient-reported

**Type:** Date by YYYY

Response Options: YYYY

Variable ID: SEX

Variable: Sex at birth

**Definition:** Indicate the patient's sex at birth

Supporting Definition: N/A

Inclusion Criteria: All patients

Timing: Baseline

Data Source: Patient-reported

**Type:** Single answer

Response Options: 1 = Male

2 = Female 999 = Unknown

Variable ID: SOCIO

Variable: Education level

**Definition:** Highest attained education

Supporting Definition: Level of schooling defined in each country according to the International Standard

Classification of Education

Inclusion Criteria: All patients

**Timing:** Baseline and ongoing

Data Source: Patient-reported

Type: Single answer

**Response Options:** o = None

1 = Primary 2 = Secondary 3 = Tertiary

#### **Baseline Characteristics**

Variable ID: SMOKING

Variable: Smoking status

**Definition:** Indicate the patient's category

Supporting Definition: N/A

**Inclusion Criteria:** All patients

Timing: Baseline

Data Source: Patient-reported

**Type:** Single answer

**Response Options:** o = Never

1 = Former 2 = Current

#### **Baseline Condition Factors**

Variable ID: BASEHBP

Variable: High blood pressure

**Definition:** Indicate whether the patient has hypertension and/or uses antihypertensive

medication

Supporting Definition: N/A

**Inclusion Criteria:** All patients

**Timing:** Baseline **Data Source:** Clinician

Type: Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: BASEAMI

Variable: Myocardial infarction

**Definition:** Indicate whether the patient has had a myocardial infarction

Supporting Definition: N/A

Inclusion Criteria: All patients
Timing: Baseline

Data Source: Clinician

**Type:** Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: BASESTR

**Variable:** Stroke (excluding transient ischemic attacks)

**Definition:** Indicate whether the patient has had a stroke (excluding transient ischemic

attacks)

Supporting Definition: N/A

Inclusion Criteria: All patients

**Timing:** Baseline **Data Source:** Clinician

Type: Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: BASEOHD

Variable: Other heart disease

**Definition:** Indicate whether the patient has any other heart disease

Supporting Definition: N/A

**Inclusion Criteria:** All patients

**Timing:** Baseline **Data Source:** Clinician

**Type:** Single answer

**Response Options:** o = No 1 = Yes

999 = Unknown

Variable ID: BASECLD

**Variable:** Chronic lung disease

**Definition:** Indicate whether the patient has chronic lung disease

Supporting Definition: N/A

Inclusion Criteria: All patients

**Timing:** Baseline **Data Source:** Clinician

Type: Single answer

**Response Options:** o = No 1 = Yes

999 = Unknown

Variable ID: BASEDM

Variable: Diabetes mellitus

**Definition:** Indicate whether the patient has diabetes mellitus

Supporting Definition: N/A

Inclusion Criteria: All patients

Timing: Baseline
Data Source: Clinician

**Type:** Single answer

**Response Options:** o = No

1 = Diabetes mellitus type 12 = Diabetes mellitus type 2

999 = Unknown

Variable ID: BASEMALIG Variable: Malignancies

**Definition:** Indicate whether the patient has any malignancies

Supporting Definition: N/A

Inclusion Criteria: All patients
Timing: Baseline
Data Source: Clinician

Type: Single answer

**Response Options:** o = No

ı = Yes

999 = Unknown

Variable ID: BASEDEP Variable: Depression

**Definition:** Indicate whether the patient has depression

Supporting Definition: N/A

Inclusion Criteria: All patients

Timing: Baseline

Data Source: Clinician

**Type:** Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: **BASEFRAC** Variable: Fracture

**Definition:** Indicate whether the patient has a fracture

Supporting Definition: N/A

Inclusion Criteria: All patients

Timing: Baseline Data Source: Clinician Single answer

Type:

Response Options: o = No

1 = Yes

999 = Unknown

Variable ID: **BASEULCER** Variable: Stomach ulcer

**Definition:** Indicate whether the patient has stomach ulcers

Supporting Definition:

Inclusion Criteria: All patients Timing: Baseline

Data Source: Clinician Single answer Type:

Response Options: o = No

1 = Yes

999 = Unknown

Variable ID: **BASESTOM** 

Variable: Stomach problem

Definition: Indicate whether the patient has stomach problems

Supporting Definition: N/A

**Inclusion Criteria:** All patients

Timing: Baseline Data Source: Clinician

Type: Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: **BASEOB** Variable: Obesity

**Definition:** Indicate whether the patient is obese

**Supporting Definition:** Obesity is defined as a BMI ≥30

Inclusion Criteria: All patients Timing: Baseline Data Source: Clinician

> Type: Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

IA DIAG Variable ID:

> Variable: Inflammatory arthritis diagnosis

Definition: Indicate the current diagnosis/diagnoses of inflammatory arthritis

Supporting Definition: N/A

Inclusion Criteria: All patients

Timing: Baseline and annually

Data Source: Clinician

**Type:** Multiple answer

**Response Options:** 1 = Rheumatoid arthritis

> 2 = Spondyloarthritis 3 = Psoriatic arthritis

4 = Juvenile idiopathic arthritis

Variable ID: **DISDUR**  Variable: Disease duration

Definition: Indicate the year of inflammatory arthritis diagnosis

Supporting Definition: N/A

**Inclusion Criteria:** All patients

Timing: Baseline Data Source: Clinician Type: Date by YYYY

YYYY

Response Options: Variable ID: IMM RF

Variable: Rheumatoid factor

Definition: Indicate the presence of rheumatoid factor

Supporting Definition:

Inclusion Criteria: If "1 = Rheumatoid arthritis" or "4 = Juvenile idiopathic arthritis" to IA DIAG

Timing: Baseline Data Source: Clinician Type: Single answer

Response Options: o = Negative 1 = Positive

999 = Unknown

Variable ID: IMM\_ACPA Variable: **ACPA** 

Definition: Indicate the presence of anti-citrullinated protein antibodies (ACPA)

Supporting Definition:

If "1 = Rheumatoid arthritis" or "4 = Juvenile idiopathic arthritis" to IA\_DIAG Inclusion Criteria:

Timing: Baseline Clinician Data Source: Type: Single answer

Response Options: o = Negative

1 = Positive 999 = Unknown

#### Outcomes

#### **Patient-Reported Outcomes**

Questions from the PROMs below represent the shortest combination of instruments to measure in the Standard Set, according to standardised reporting metrics. For more information on using PROMs to measure patient-reported outcomes, please see page 6.

> Variable ID: PROMCHOICE PAIN Variable: PROM Choice - Pain

Definition: Which Patient-Reported Outcome Measure are you using to measure pain?

Supporting Definition: Choose one from:

> Numerical Rating Scale Visual Analogue Scale SF-36 Bodily Pain

PROMIS Pain Interference PedsQL Pain and Hurt

Inclusion Criteria: All patients

Baseline and annually Timing: Data Source: Patient-reported

Single answer Type:

Response Options: 1 = Numerical Rating Scale

2 = Visual Analogue Scale 3 = SF-36 Bodily Pain 4 = PROMIS Pain Interference

5 = PedsQL Pain and Hurt

Variable ID: PAIN NRS

Variable: Pain Numerical Rating Scale Definition: Circle the number that best describes the pain you felt due to your arthritis during

the last week.

Supporting Definition: o = None

10 = Extreme

Inclusion Criteria: If "1 = NRS" to PROMCHOICE\_PAIN

Timing: Baseline and annually Data Source: Patient-reported

Type: Numerical

**Response Options:** Numerical value between o and 10

Variable ID: PROMCHOICE FAT Variable: PROM Choice - Fatigue

Definition: Which Patient-Reported Outcome Measure are you using to measure fatigue?

Supporting Definition: Choose one from:

Numerical Rating Scale Visual Analogue Scale

FACIT-F **BRAF** 

**PROMIS Fatique** 

PedsQL4.o Fatique Total Score

Inclusion Criteria: All patients

> Baseline and annually Timing: Data Source: Patient-reported Type: Single answer

Response Options: 1 = Numerical Rating Scale

2 = Visual Analogue Scale

3 = FACIT-F 4 = BRAF

5 = PROMIS Fatique

6 = PedsQL4.o Fatigue Total Score

Variable ID: FATIGUE\_NRS

Variable: Fatigue Numerical Rating Scale

Circle the number that best describes how much fatigue you felt due to your Definition:

arthritis during the last week.

Supporting Definition: o = No fatique

10 = Totally exhausted

If "1 = NRS" to PROMCHOICE FAT Inclusion Criteria:

Timing: Baseline and annually Data Source: Patient-reported

Type: Numerical

Response Options: Numerical value between o and 10

Variable ID: PROMCHOICE\_ACT

Variable: PROM Choice - Activity limitations

Which Patient-Reported Outcome Measure are you using to measure activity Definition:

limitations?

Supporting Definition: Choose one from:

> HAQ-II HAQ-DI MHAQ MD-HAQ

**PROMIS Physical Function** 

**BASFI** C-HAQ **JAMAR** 

**Inclusion Criteria:** All patients

**Timing:** Baseline and annually Patient-reported Data Source: Single answer Type:

**Response Options:** 1 = HAQ-II

> 2 = HAQ-DI 3 = MHAQ4 = MD-HAQ

5 = PROMIS Physical Function

6 = BASFI 7 = C-HAQ 8 = JAMAR

Variable ID: HAQ2\_Q01 Variable: HAQ-II Question 1

Definition: We are interested in learning how your illness affects your ability to function in

daily life. Place an X in the box which best describes your usual abilities OVER THE

PAST WEEK:

Are you able to:...Stand up from a straight chair?

Supporting Definition: N/A

> Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

Timing: Baseline and annually Data Source: Patient-reported

Type: Single answer

**Response Options:** o = Without Any Difficulty

1 = With Some Difficulty 2 = With Much Difficulty 3 = Unable To Do

Variable ID: HAQ2\_Qo2

Variable: HAQ-II Question 2

Definition: Are you able to:... Walk outdoors on flat ground?

Supporting Definition: N/A

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

**Timing:** Baseline and annually **Data Source:** Patient-reported Type: Single answer

**Response Options:** o = Without Any Difficulty

1 = With Some Difficulty 2 = With Much Difficulty

3 = Unable To Do

Variable ID: HAQ2 Qo3 HAQ-II Question 3 Variable:

**Definition:** Are you able to:... Get on/off toilet?

Supporting Definition: N/A

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

**Timing:** Baseline and annually Data Source: Patient-reported

**Type:** Single answer

Response Options: o = Without Any Difficulty

> 1 = With Some Difficulty 2 = With Much Difficulty

3 = Unable To Do

Variable ID: HAQ2\_Qo4

Variable: HAQ-II Question 4

Are you able to:... Reach and get down a 5 pound object (such as a bag of sugar) Definition:

from just above your head?

Supporting Definition: N/A

> **Inclusion Criteria:** If "1 = HAQ-II" to PROMCHOICE\_ACT

**Timing:** Baseline and annually Data Source: Patient-reported

Type: Single answer Without Any Difficulty 1 = With Some Difficulty 2 = With Much Difficulty

3 = Unable To Do

Variable ID: HAQ<sub>2</sub> Q<sub>05</sub> Variable: HAQ-II Question 5

Definition: Are you able to:... Open car doors?

Supporting Definition:

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

Timing: Baseline and annually Data Source: Patient-reported

Type: Single answer

Response Options: o = Without Any Difficulty

> 1 = With Some Difficulty 2 = With Much Difficulty 3 = Unable To Do

Variable ID: HAQ<sub>2</sub> Q<sub>0</sub>6 Variable: HAQ-II Question 6

Definition: Are you able to:... Do outside work (such as yard work)?

Supporting Definition:

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE ACT

**Timing:** Baseline and annually Data Source: Patient-reported Type: Single answer

Response Options: o = Without Any Difficulty

> 1 = With Some Difficulty 2 = With Much Difficulty

3 = Unable To Do

Variable ID: HAQ2\_Q07

Variable: HAQ-II Question 7

Definition: Are you able to:... Wait in line for 15 minutes?

Supporting Definition:

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

Timing: Baseline and annually Data Source: Patient-reported Single answer Type:

Response Options: o = Without Any Difficulty

> 1 = With Some Difficulty 2 = With Much Difficulty 3 = Unable To Do

Variable ID: HAQ2\_Qo8 Variable: **HAQ-II Question 8** 

Definition: Are you able to:... Lift heavy objects?

Supporting Definition:

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

Baseline and annually Timing: Data Source: Patient-reported Type: Single answer

Response Options: o = Without Any Difficulty

1 = With Some Difficulty 2 = With Much Difficulty

3 = Unable To Do

Variable ID: HAQ2 Q09 Variable: HAQ-II Question 9

Definition: Are you able to:... Move heavy objects?

Supporting Definition:

If "1 = HAQ-II" to PROMCHOICE ACT **Inclusion Criteria:** 

> Timing: Baseline and annually

**Data Source:** Patient-reported

Type: Single answer

**Response Options:** o = Without Any Difficulty

1 = With Some Difficulty2 = With Much Difficulty

3 = Unable To Do

Variable ID: HAQ2\_Q10

Variable: HAQ-II Question 10

**Definition:** Are you able to:... Go up two or more flights of stairs?

Supporting Definition: N/A

Inclusion Criteria: If "1 = HAQ-II" to PROMCHOICE\_ACT

**Timing:** Baseline and annually **Data Source:** Patient-reported

Type: Single answer

**Response Options:** o = Without Any Difficulty

1 = With Some Difficulty 2 = With Much Difficulty 3 = Unable To Do

Variable ID: PROMCHOICE OEPHI

Variable: PROM Choice - Overall Emotional and Physical Health Impact

**Definition:** Which Patient-Reported Outcome Measure are you using to measure overall

emotional and physical health impact?

**Supporting Definition:** Choose one from:

Numerical Rating Scale (Patient Global Assessment) Visual Analogue Scale (Patient Global Assessment)

PROMIS Global Health

EQ-5D-5L SF-6D Raid Psaid PedsQL3.0 PedsQL4.0

PROMIS Global Health Paediatric

EQ-5D-Y

Inclusion Criteria: All patients

Timing: Baseline and annually

Data Source: Patient-reported

Circle annually

Type: Single answer

**Response Options:** 1 = Numerical Rating Scale (Patient Global Assessment)

2 = Visual Analogue Scale (Patient Global Assessment)

3 = PROMIS Global Health

4 = EQ-5D-5L 5 = SF-6D 6 = Raid 7 = Psaid 8 = PedsQL3.0 9 = PedsQL4.0

10 = PROMIS Global Health Paediatric

11 = EQ-5D-Y

Variable ID: OEPHI NRS

Variable: Overall Emotional and Physical Health Impact Numerical Rating Scale

**Definition:** Circle the number that best describes how your arthritis has affected you overall

during the last week.

**Supporting Definition:** o = No impact

10 = Extreme impact

Inclusion Criteria: If "1 = NRS (Patient Global Assessment)" to PROMCHOICE\_OEPHI

**Timing:** Baseline and annually

**Data Source:** Patient-reported

Type: Single answer

**Response Options:** Numerical value between o and 10

Variable ID: PROMCHOICE\_WSHAP

**Variable:** PROM Choice - Work/school/housework ability and productivity **Definition:** Which Patient-Reported Outcome Measure are you using to measure

work/school/housework ability and productivity?

**Supporting Definition:** Choose one from:

**WPAI** 

PedsQL4.o - School Function

**Inclusion Criteria:** All patients

Timing: Baseline and annually

Data Source: Patient-reported

Single approximately

**Type:** Single answer

Response Options: 1 = WPAI

2 = PedsQL4.o - School Function

Variable ID: WPAI\_GH\_Qo1

Variable: Work Productivity and Activity Impairment Questionnaire: General Health V2.0

(WPAI:GH) Question 1

**Definition:** Are you currently employed (working for pay)?

Supporting Definition: N/A

Inclusion Criteria: If "1 = WPAI" to PROMCHOICE\_WSHAP

Timing: Baseline and annually

Data Source: Patient-reported

Type: Single answer

**Response Options:** o = No

1 = Yes

Variable ID: WPAI\_GH\_Qo2

Variable: Work Productivity and Activity Impairment Questionnaire: General Health V2.0

(WPAI:GH) Question 2

**Definition:** The next questions are about the past seven days, not including today.

During the past seven days, how many hours did you miss from work because of your health problems? Include hours you missed on sick days, times you went in late, left early, etc., because of your health problems. Do not include time you

missed to participate in this study.

Supporting Definition: N/A

Inclusion Criteria: If "1 = Yes" to WPAI\_GH\_Qo1

Timing: Baseline and annually

Data Source: Patient-reported

Type: Numerical value

**Type:** Numerical value **Response Options:** Numerical value

Variable ID: WPAI GH Qo3

Variable: Work Productivity and Activity Impairment Questionnaire: General Health V2.0

(WPAI:GH) Question 3

**Definition:** During the past seven days, how many hours did you miss from work because of

any other reason, such as vacation, holidays, time off to participate in this study?

Supporting Definition: N/A

Inclusion Criteria: If "1 = Yes" to WPAI\_GH\_Qo1

Timing: Baseline and annually

Data Source: Patient-reported

Type: Numerical value

Response Options: Numerical value

Variable: Work Productivity and Activity Impairment Questionnaire: General Health V2.0

(WPAI:GH) Question 4

WPAI GH Qo4

**Definition:** During the past seven days, how many hours did you actually work?

Supporting Definition: N/A

Variable ID:

Inclusion Criteria: If "1 = Yes" to WPAI\_GH\_Qo1

**Timing:** Baseline and annually **Data Source:** Patient-reported

Type: Numerical value Response Options: Numerical value

Variable ID: WPAI\_GH\_Qo5

Variable: Work Productivity and Activity Impairment Questionnaire: General Health V2.0

(WPAI:GH) Question 5

**Definition:** During the past seven days, how much did your health problems affect your

productivity while you were working?

Think about days you were limited in the amount or kind of work you could do, days you accomplished less than you would like, or days you could not do your work as carefully as usual. If health problems affected your work only a little, choose a low number. Choose a high number if health problems affected your

work a great deal.

Consider only how much health problems affected

productivity while you were working

Supporting Definition: Scale:

o = Health problems had no effect on my work

10 = Health problems completely prevented me from working

Inclusion Criteria: If ">o" to WPAI\_GH\_Qo4

**Timing:** Baseline and annually **Data Source:** Patient-reported

Type: Numerical

**Response Options:** Numerical value between 1 and 10

Variable ID: WPAI\_GH\_Qo6

Variable: Work Productivity and Activity Impairment Questionnaire: General Health V2.0

(WPAI:GH) Question 6

**Definition:** During the past seven days, how much did your health problems affect your ability

to do your regular daily activities, other than work at a job?

By regular activities, we mean the usual activities you do, such as work around the house, shopping, childcare, exercising, studying, etc. Think about times you were

limited in the amount or kind of activities you could do and times you

accomplished less than you would like. If health problems affected your activities only a little, choose a low number. Choose a high number if health problems

affected your activities a great deal

Consider only how much health problems affected your ability to do your regular daily activities, other than work at a job.

**Supporting Definition:** Scale:

o = Health problems had no effect on my daily activities

10 = Health problems completely prevented me from doing my daily activities

Inclusion Criteria: If "1 = WPAI" to PROMCHOICE\_WSHAP

**Timing:** Baseline and annually **Data Source:** Patient-reported

**Type:** Numerical

**Response Options:** Numerical value between 1 and 10

#### **Freatment-Specific Outcomes**

Variable ID: SAE

Variable: Serious Adverse Events

**Definition:** Has the patient suffered from any serious adverse events in the past 12 months? **Supporting Definition:** According to the FDA, a serious adverse event is an undesirable experience

associated with the use of a medical product in a patient. The event is serious when

the patient outcome is: death; life-threatening; hospitalisation; disability or

permanent damage; congenital anomaly/birth defect; required intervention to prevent permanent impairment or damage; other serious (important medical

events).

Inclusion Criteria: All patients

**Timing:** Baseline and annually

Data Source: Clinician

Type: Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: SAE\_TYPE

Variable: Serious Adverse Events - Classification

**Definition:** Which serious adverse event(s) has the patient suffered from in the past 12

months?

Supporting Definition: N/A

Inclusion Criteria: If "1 = Yes" to SAE

Timing: Baseline and annually

Data Source: Clinician

Type: Multiple answer

**Response Options:** 1 = Death

2 = Life-threatening 3 = Hospitalisation

4 = Disability or permanent damage 5 = Congenital anomaly/birth defect

6 = Required intervention to prevent permanent impairment or damage

7 = Other serious (important medical events)

Variable ID: REM\_LDA\_TARG
Variable: Disease activity target

**Definition:** What was the disease activity target?

Supporting Definition: N/A

**Inclusion Criteria:** All patients

**Timing:** Baseline and annually

**Data Source:** Clinician

**Type:** Single answer

**Response Options:** 1 = Clinical remission

2 = Low disease activity

3 = Both

999 = Unknown

Variable ID: REM\_LDA\_REAC

Variable: Disease activity target reached

**Definition:** Was the disease activity target reached?

Supporting Definition: N/A

Inclusion Criteria: All patients

Timing: Baseline and annually

Data Source: Clinician

Type: Single answer

**Response Options:** o = No

1 = Yes

999 = Unknown

Variable ID: IDA

Variable: Inflammatory disease activity

**Definition:** Which validated and internationally-accepted composite score for inflammatory

disease activity did you use?

Supporting Definition: N/A

Inclusion Criteria: All patients

**Timing:** Baseline and 6-monthly if disease is active, baseline and annually if in remission

Data Source: Clinician

**Type:** Free text **Response Options:** Free text

Variable ID: IDA\_RES

**Variable:** Inflammatory disease activity result **Definition:** What was the clinical composite score?

Supporting Definition: N/A

**Inclusion Criteria:** All patients

**Timing:** Baseline and 6-monthly if disease is active, baseline and annually if in remission

Data Source: Clinician

**Type:** Free text

Response Options: Free text

## Working Group Member Conflicts of Interest

At the beginning of the Working Group process, we ask all Working Group members to declare any conflicts of interest they have. We then circulate these within the Group to ensure transparency.

Name	Title	Declarations
Mart van de Laar	Professor of Rheumatology	Roche - research support
Harald Vonkeman	Associate Professor of Rheumatology	Roche - research support
Martijn Oude Voshaar	Senior Researcher	None declared
Zofia Das-Gupta	Project Leader	None declared
Angelique Weel	Associate Professor of Rheumatology	Abbvie - grant Pfizer - grant UCB - grant
Annelies Boonen	Professor of Rheumatology	
Benjamin Ellis	Consultant Rheumatologist Senior Clinical Advisor, Arthritis Research UK	Led on the development of the Musculoskeletal Health Questionnaire
Christina Opava	Professor of Physiotherapy	None delcared
Christine Hale	National Director of Clinical Performance Excellence	None declared
Delphine Courvoisier	Senior Researcher	BMS - personal fees
Enrique Soriano	Associate Professor of Rheumatology	Abbvie - grant, personal fees Brystol - grant, personal fees Pfizer - grant, personal fees Janssen - grant, personal fees UCB - grant, personal fees Roche - grant, personal fees Novartis - grant, personal fees
Geraldo Pinheiro	Associate Professor of Rheumatology	Abbvie - consulting honorarium AstraZeneca - consulting honorarium BMS - consulting honorarium Janssen - consulting honorarium Pfizer - consulting honorarium Roche - consulting honorarium Sanofi Aventis - consulting honorarium
Girish Mody	Professor of Rheumatology	GSK - honorarium (advisory board member - past) AstraZeneca - honorarium (advisory board member - past)
Jeffrey Chau	Patient Representative	Eli Lilly and Company - consulting fees Boehringer Ingelheim - consulting fees
Jeffrey Curtis	Professor of Medicine	Amgen - honorarium/research BMS - honorarium/research Corrona - honorarium/research Crescendo - honorarium/research Janssen - honorarium/research Pfizer - honorarium/research
Jennifer Horonjeff	Instructor Officer of Research	Boehringer-Ingelheim - honorarium
Johannes Bijlsma	Professor of Rheumatology	Abbvie - consulting fees BMS - consulting fees MSD - consulting fees Pfizer - consulting fees Roche - consulting fees SUN - consulting fees UCB - consulting fees
Kaleb Michaud	Associate Professor of Rheumatology	None declared
Katy Ying Ying Leung	Assistant Professor of Rheumatology	None declared

Laure Gossec	Professor of Rheumatology	Abbott - speaking fees/honorarium Abbvie - speaking fees/honorarium Celegne - speaking fees/honorarium Chugai - speaking fees/honorarium Janssen - speaking fees/honorarium MSD - speaking fees/honorarium Novartis - speaking fees/honorarium Pfizer - speaking fees/honorarium Roche - speaking fees/honorarium
Maarten de Wit	Patient Representative	Abbvie - committee fee Novartis - committee fee BMS - committee fee Celegne - speaking fee Roche - speaking fee
Marieke Voshaar	Patient Representative	None declared
Merav Lidar	Professor of Rheumatology	None declared
Mwidimi Ndosi	Senior Lecturer in Rheumatology	None declared
Nico Wulffraat	Professor of Paediatric Rheumatology	Abbvie - grant Novartis - speaking fees, drug trials Pfizer - grant Sanofi - grant
Philip Mease	Director of Rheumatology Research	Abbvie - research grant/consulting honorarium/speaking honorarium  Amgen - research grant/consulting honorarium/speaking honorarium  BMS - research grant/consulting honorarium/speaking honorarium  Janssen - research grant/consulting honorarium/speaking honorarium  Novartis - research grant/consulting honorarium/speaking honorarium  Pfizer - research grant/consulting honorarium/speaking honorarium  UCB - research grant/consulting honorarium/speaking honorarium  Celegne - speaking honorarium  Celegne - speaking honorarium  Crescendo Bioscience - consulting/speaking honorarium  Galapagos - consulting honorarium  Lilly - consulting honorarium  SUN - consulting honorarium  Corrona - consulting honorarium
Sofia Ernestam	Rheumatology Specialist	None declared
William Taylor	Associate Professor of Rheumatology	None declared

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# Reference Guide Revisions

Reference Guide Version

Location within Reference Guide

**Content Change** 

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