

# Rheumatoid Arthritis Impact of Disease

## RAID questionnaire

### 1. Pain

Circle the number that best describes the pain you felt due to your rheumatoid arthritis during the past 7 days.

None	0	1	2	3	4	5	6	7	8	9	10	Extreme
------	---	---	---	---	---	---	---	---	---	---	----	---------

### 2. Functional disability

Circle the number that best describes the difficulty you had in doing daily physical activities due to your rheumatoid arthritis during the past 7 days.

No difficulty	0	1	2	3	4	5	6	7	8	9	10	Extreme difficulty
---------------	---	---	---	---	---	---	---	---	---	---	----	--------------------

### 3. Fatigue

Circle the number that best describes how much fatigue you felt due to your rheumatoid arthritis during the past 7 days.

No fatigue	0	1	2	3	4	5	6	7	8	9	10	Totally exhausted
------------	---	---	---	---	---	---	---	---	---	---	----	-------------------

### 4. Sleep

Circle the number that best describes the sleep difficulties (i.e., resting at night) you felt due to your rheumatoid arthritis during the past 7 days.

No difficulty	0	1	2	3	4	5	6	7	8	9	10	Extreme difficulty
---------------	---	---	---	---	---	---	---	---	---	---	----	--------------------

### 5. Physical well-being

Considering your rheumatoid arthritis overall, how would you rate your level of physical well-being during the past 7 days? Circle the number that best describes your level of physical well-being.

Very good	0	1	2	3	4	5	6	7	8	9	10	Very bad
-----------	---	---	---	---	---	---	---	---	---	---	----	----------

### 6. Emotional well-being

Considering your rheumatoid arthritis overall, how would you rate your level of emotional well-being during the past 7 days? Circle the number that best describes your level of emotional well-being.

Very good	0	1	2	3	4	5	6	7	8	9	10	Very bad
-----------	---	---	---	---	---	---	---	---	---	---	----	----------

### 7. Coping

Considering your rheumatoid arthritis overall, how well did you cope (i.e., manage, deal with, make do) with your disease during the past 7 days?

Very well	0	1	2	3	4	5	6	7	8	9	10	Very poorly
-----------	---	---	---	---	---	---	---	---	---	---	----	-------------

## RAID SCORING AND CALCULATION RULES

The RAID is calculated based on 7 Numerical rating scales (NRS) questions. Each NRS is assessed as a number between 0 and 10. The 7 NRS correspond to pain, function, fatigue, sleep, emotional well-being, physical well-being, and coping/self-efficacy.

### 1. Calculation

RAID final value =  
(pain NRS value (range 0-10) x 0.21) + (function NRS value (range 0-10) x 0.16)  
+ (fatigue NRS value (range 0-10) x 0.15) + (phys well being NRS value (range 0-10) x 0.12) + (sleep NRS value (range 0-10) x 0.12) + (emotional well being NRS value (range 0-10) x 0.12) + (coping NRS value (range 0-10) x 0.12).

Thus, the range of the final RAID value is 0-10 where higher figures indicate worse status.

### 2. Missing data imputation

If one of the 7 NRS values composing the RAID is missing, the imputation is as follows:

- a. calculate the mean value of the 6 other (non-missing) NRS (range, 0-10)
- b. impute this value for the missing NRS
- c. Then, calculate the RAID as explained above.

If 2 or more of the NRS are missing, the RAID is considered as missing value (no imputation).