

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 last week:

None	0	1	2	3	4	5	6	7	8	9	10	Extreme
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2. Functional disability assessment

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

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

Circle the number that best describes how much fatigue you felt due to your rheumatoid arthritis during the last week.

No fatigue	0	1	2	3	4	5	6	7	8	9	10	Totally exhausted
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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 last week.

No difficulty	0	1	2	3	4	5	6	7	8	9	10	Extreme difficulty
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5. Physical well-being

Considering your arthritis overall, how would you rate your level of physical well being during the past week? 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
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6. Emotional well-being

Considering your arthritis overall, how would you rate your level of emotional well being during the past week? 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
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7. Coping

Considering your arthritis overall, how well did you cope (manage, deal, make do) with your disease during the last week?

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