## Bristol Rheumatoid Arthritis Fatigue scales (BRAFs): Scoring

BRAF-Numerical Rating Scales V2 revised: Three NRS give 3 separate answers from 0-10 where high is worse
BRAF Multidimensional Questionnaire (BRAF-MDQ): 20 items are combined to create 5 scores, high is worse:

| Total fatigue score | $0-70$ | Items 1-20 summed |
| :--- | :--- | :--- |
| Physical (severity) subscale | $0-22$ | Items 1-4 summed |
| Living with fatigue subscale | $0-21$ | Items 5-11 summed |
| Cognitive fatigue subscale | $0-15$ | Items $12-16$ summed |
| Emotional fatigue subscale | $0-12$ | Items $17-20$ summed |



## Missing BRAF-MDQ data

- Questions 1 and 2 must be completed to be valid
- Only 1 question may be missing from each dimension (maximum of 3 in the overall BRAF-MDQ).
- Replace the missing question score with the average score for that dimension
- For the Physical Fatigue dimension, a weighted average score is used to account for the varying score ranges in the 4 items. First, sum the 3 completed items, then divide by the total max possible score for those 3 questions, then multiply by the maximum score possible for all 4 questions (ie 22).

Eg: $\quad \mathrm{Q} 1$ is $10 / 10, \mathrm{Q} 2$ is $6 / 7, \mathrm{Q} 3$ is missing, Q 4 is $2 / 3$, summed to give 18
Divide by total max possible for those 3 questions $(10+7+3=20)$ thus $18 / 20=0.9$ weighted average Multiply by the max possible score for all 4 questions (22) ie $0.9 \times 22=19.8$
Physical score would therefore be imputed as 19.8

