

Table 2. Performance Characteristics of the Top 6 Preliminary Definitions of Improvement for Adult Myositis*.

Definition of Improvement	Sensitivity[†] %	Specificity[‡] %	Positive Predictive Value, %	Negative Predictive Value, %	Sensitivity × Specificity	Final Score[§] (0 – 60)
A1. 3 of any 6 measures improved by 20% or more, with no more than 2 worse by 25% or more, which cannot be MMT	86%	88%	79%	92%	0.76	49
A2. MD global activity improved by greater than 30% and MMT improved by 1 – 15%, OR MMT improved by greater than 15% and MD global activity improved by greater than 10%, AND no more than 2 worse by 25% or more	92%	91%	85%	95%	0.84	47
A3a. MMT improved by at least 15%, OR MD global activity improved by greater than 30% and MMT improved by 1 – 15%, AND no more than 2 worse by 25% or more	97%	80%	73%	98%	0.78	23
A3b. 3 of any 6 measures improved by 20% or more, with no more than 2 worse by 25% or more	86%	88%	79%	92%	0.76	23
A5a. MD global activity improved by greater than 30% and MMT improved by 1 – 15%, OR MMT improved by greater than 15% and MD global activity improved by greater than 10%	92%	91%	85%	95%	0.84	19
A5b. 3 of any 6 measures improved by 15% or more, with no more than 1 worse by 25% or more, which cannot be MMT	94%	77%	69%	96%	0.73	19

*Note: A1 is the same as P1. Additional definitions are common to Table 3: A2 is the same as P4; A3b is the same as P2; A5b is the same as P5. Abbreviations: MD, physician; MMT, manual muscle testing.

[†]False Positive = 1 – specificity; [‡]False Negative = 1 – sensitivity; [§]Definitions were ranked 5 – 1 by 12 adult myositis experts using a score of 5 for each physician’s top choice and a score of 1 for their lowest choice definition.