

Table 3. Performance characteristics of Top 5 Preliminary Definitions of Improvement for Juvenile Myositis*.

Definition of Improvement	Sensitivity[†] %	Specificity[‡] %	Positive Predictive Value %	Negative Predictive Value %	Sensitivity × Specificity	Final Score[§] (0 – 65)
P1. 3 of any 6 measures improved by 20% or more, with no more than 2 worse by 25% or more, which cannot be MMT	83%	98%	98%	87%	0.82	57
P2. 3 of any 6 measures improved by 20% or more, with no more than 2 worse by 25% or more	83%	98%	98%	87%	0.82	53
P3. 3 of any 6 measures improved by 20% or more	83%	98%	98%	87%	0.82	34
P4. 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	90%	94%	93%	91%	0.85	17
P5. 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%	83%	83%	94%	0.78	15

* Note: P1 is the same as A1. Additional definitions are common to Table 2: P4 is the same as A2; P2 is the same as A3b; P5 is the same as A5b. Abbreviations: MD, physician; MMT, manual muscle testing.

[†]False Positive = 1 – specificity; [‡]False Negative = 1 – sensitivity; [§]Definitions were ranked 5 – 1 by 13 juvenile myositis experts using a score of 5 for each physician’s top choice and a score of 1 for their lowest choice definition.