

Supplementary Table S1. Spearman correlation analysis between the SF-36 domains and core set measures at baseline.

SF-36 domain scores	CSMs correlation coefficient (rho)					
	EXGLB	PhGA	PtGA	HAQ	MMT-8	CK
Physical functioning	-0.22*	-0.57**	-0.62**	-0.76**	0.49**	-0.25
Role physical	-0.27**	-0.41**	-0.46**	-0.51**	0.38**	-0.14
Role emotional	-0.28**	-0.38**	-0.33**	-0.33*	0.32**	-0.19
Vitality	-0.20	-0.38**	-0.56**	-0.58**	0.35**	-0.23
Mental health	-0.10	-0.18	-0.23*	-0.28**	0.12	-0.28
Social functioning	-0.20	-0.42**	-0.53**	-0.57**	0.34**	-0.21
Bodily pain	-0.20	-0.41**	-0.52**	-0.60**	0.38**	-0.18
General health	-0.33**	-0.38**	-0.34**	-0.42**	0.13	0.05
PCS	-0.23*	-0.51**	-0.61**	-0.72**	0.43**	-0.11
MCS	-0.23*	-0.29**	-0.29**	-0.26**	0.19	-0.21

* Correlation is significant at the 0.05 level.

** Correlation is significant at the 0.01 level.

SF-36: short form 36; CSMs: core set measures; CK: creatine kinase; HAQ: health assessment questionnaire; MMT-8: manual muscle testing 8; EXGLB: extra-muscular disease activity; PtGA: patient-global assessment; PhGA: physician-global assessment; PF: physical functioning; RP: role physical; BP: bodily pain; GH: general health; VT: vitality; SF: social functioning; RE: role emotional; MH: mental health; PCS: physical component summary; MCS: mental component summary.

Supplementary Table S2. Spearman correlation analysis between the delta change of SF-36 domains, core set measures (CSMs), and total improvement score (TIS) at 6 months.

SF-36 domain scores	CSMs correlation coefficient (rho)						TIS
	EXGLB	PhGA	PtGA	HAQ	MMT-8	CK	
Physical functioning	-0.33**	-0.49**	-0.32**	-0.64**	0.45**	-0.28	0.51**
Role physical	-0.28*	-0.25*	-0.48**	-0.39**	0.18	-0.22	0.38**
Role emotional	-0.36**	-0.39**	-0.30*	-0.47**	0.29*	-0.30*	0.48**
Vitality	-0.35**	-0.38**	-0.26*	-0.50**	0.33**	-0.47**	0.51**
Mental health	-0.29*	-0.29*	-0.24	-0.38**	0.04	-0.34*	0.34*
Social functioning	-0.26*	-0.41**	-0.40**	-0.54**	0.20	-0.33*	0.60**
Bodily pain	-0.37**	-0.31**	-0.34**	-0.52**	0.22	-0.17	0.40**
General health	-0.32**	-0.25*	-0.25*	-0.35**	0.27*	-0.23	0.41**
PCS	-0.33**	-0.36**	-0.40**	-0.56**	0.37**	-0.19	0.45**
MCS	-0.38**	-0.42**	-0.28*	-0.50**	0.23	-0.48**	0.53**

* Correlation is significant at the 0.05 level.

** Correlation is significant at the 0.01 level.

SF-36: short form 36; CSMs: core set measures; CK: creatine kinase; HAQ: health assessment questionnaire; MMT-8: manual muscle testing 8; EXGLB: extra-muscular disease activity; PtGA: patient-global assessment; PhGA: physician-global assessment; TIS: total improvement score; PF: physical functioning; RP: role physical; BP: bodily pain; GH: general health; VT: vitality; SF: social functioning; RE: role emotional; MH: mental health; PCS: physical component summary; MCS: mental component summary.

Supplementary Table S3. Mixed linear model analysis of the longitudinal relationship between core set measures (CSMs) and SF-36 domain changes at 6 months in IIM patients (adjusted for age, sex and race).

Variable absolute change at 6 months:	EXGLB	PhGA	PtGA	HAQ	MMT-8	CK
Physical functioning	-3.99**	-4.56**	-3.02**	-26.64**	0.61	-0.49**
Role physical	-4.29**	-5.01**	-4.47**	-29.25**	0.46	-0.59*
Role emotional	-4.08**	-4.77**	-2.76**	-19.82**	-1.18	-0.85**
Vitality	-3.07**	-3.21**	-3.11**	-16.57**	-0.51	-0.63**
Mental health	-1.27*	-1.60**	-1.11**	-6.80**	1.01	-0.21
Social functioning	-2.46**	-3.29**	-3.23**	-20.20**	-0.83	-0.57**
Bodily pain	-3.02**	-3.36**	-3.38**	-19.42**	-0.49	-0.74**
General health	-2.55**	-2.43**	-1.65**	-9.13**	1.68	-0.15
PCS	-1.56**	-1.59**	-1.41**	-9.99**	0.25	-0.22**
MCS	-0.90**	-0.95**	-0.67**	-4.00**	0.03	-0.19**

* Correlation is significant at the 0.05 level.

** Correlation is significant at the 0.01 level.

CK: creatine kinase; HAQ: health assessment questionnaire; MMT-8: manual muscle testing 8; EXGLB: extra-muscular disease activity; PtGA: patient-global assessment; PhGA: physician-global assessment; PF: physical functioning; RP: role physical; BP: bodily pain; GH: general health; VT: vitality; SF: social functioning; RE: role emotional; MH: mental health; PCS: physical component summary; MCS: mental component summary.