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Appendix Table 1: Adjusted impact of patient and operative characteristics on change score outcomes. Estimate (95% CI, p-value) from generalized linear model. Red coloring highlights statistical significance. Positive change scores are desirable for SF-36 and negative change scores are desirable for SMFA and VAS pain. MCS and depression groupings compared to patients with high MCS without depression.

Factor	SF-36 MCS	SF-36 PCS	SMFA Bother	SMFA Function	VAS pain
Age (per year)	0.1 (-0.1, 0.2; p=0.45)	0 (-0.2, 0.2; p=0.94)	-0.1 (-0.3, 0; p=0.181)	-0.1 (-0.2, 0.1; p=0.32)	0 (-0.2, 0.2; p=0.8)
Female sex	0 (-1.2, 1.2; p=0.99)	-1.4 (-2.9, 0.1; p=0.075)	1.1 (-0.1, 2.3; p=0.065)	0.5 (-0.4, 1.5; p=0.28)	0.9 (-0.7, 2.5; p=0.25)
Caucasian or white race	0.7 (-2, 3.4; p=0.62)	0.3 (-3, 3.6; p=0.86)	-0.3 (-2.9, 2.3; p=0.81)	-0.1 (-2.1, 2; p=0.96)	0.7 (-2.9, 4.2; p=0.72)
BMI (per unit kg/m <sup>2</sup> )	-0.2 (-0.4, 0; p=0.091)	<b>-0.3 (-0.5, 0; p=0.04)</b>	0.1 (-0.1, 0.3; p=0.45)	0 (-0.2, 0.1; p=0.83)	0.1 (-0.2, 0.4; p=0.48)
ASA (per point)	<b>-3.4 (-5.6, -1.2; p=0.003)</b>	<b>-3.7 (-6.4, -1; p=0.008)</b>	<b>2.6 (0.4, 4.7; p=0.019)</b>	<b>2.6 (0.9, 4.3; p=0.003)</b>	0.8 (-2.1, 3.7; p=0.58)
Current smoking	-2.5 (-5.6, 0.6; p=0.111)	-1.9 (-5.8, 2.1; p=0.36)	1 (-1.9, 4; p=0.49)	1.5 (-0.8, 3.9; p=0.2)	1.5 (-2.6, 5.5; p=0.48)
Prior surgery	0.4 (-0.8, 1.7; p=0.48)	1 (-0.5, 2.5; p=0.2)	-0.6 (-1.7, 0.6; p=0.36)	-0.1 (-1, 0.9; p=0.87)	<b>1.8 (0.2, 3.4; p=0.029)</b>
Charlson-Deyo score (per point)	0.2 (-0.7, 1; p=0.7)	-0.2 (-1.3, 0.9; p=0.77)	0.2 (-0.7, 1; p=0.69)	0 (-0.7, 0.7; p=0.99)	-0.7 (-1.9, 0.5; p=0.24)
Low MCS with depression	<b>-5.1 (-9.1, -1; p=0.015)</b>	<b>-7.6 (-12.6, -2.6; p=0.003)</b>	<b>6 (2.2, 9.8; p=0.002)</b>	<b>5.7 (2.7, 8.7; p&lt;0.001)</b>	<b>7.5 (2.5, 12.4; p=0.003)</b>
Low MCS without depression	<b>5.3 (1.1, 9.4; p=0.013)</b>	3 (-2.1, 8; p=0.25)	-1.4 (-5.2, 2.4; p=0.47)	-1.9 (-4.9, 1.1; p=0.22)	0.3 (-4.7, 5.4; p=0.89)
High MCS with depression	<b>-3.2 (-6.2, -0.1; p=0.041)</b>	-0.7 (-4.3, 3; p=0.72)	-0.9 (-3.7, 2; p=0.55)	-1.1 (-3.3, 1.2; p=0.35)	-1.9 (-5.6, 1.8; p=0.31)
Pre-op SF36 MCS (per point)	<b>-0.5 (-0.6, -0.5; p&lt;0.001)</b>	n/a	n/a	n/a	n/a
Pre-op SF36 PCS (per point)	n/a	<b>-0.4 (-0.5, -0.3; p&lt;0.001)</b>	n/a	n/a	n/a

Pre-op SMFA bother (per point)	n/a	n/a	-0.6 (-0.7, - 0.5; p=<0.001)	n/a	n/a
Pre-op SMFA function (per point)	n/a	n/a	n/a	-0.5 (-0.6, - 0.4; p=<0.001)	n/a
Pre-op VAS pain (per point)	n/a	n/a	n/a	n/a	-0.9 (-1, - 0.9; p=<0.001)

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