

Data Dictionary Codebook

IMACS Codebooks (PID: 483)

09/04/2026 4:53pm

Instruments	
Instrument	Form Name
Manual Muscle Testing 8 (MMT8)	manual_muscle_testing_8_mmt8

[Collapse all instruments](#)

	#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)				
Instrument: Manual Muscle Testing 8 (MMT8) (manual_muscle_testing_8_mmt8)								
	1	[<i>study_id</i>]	Study ID	text				
	2	[<i>mmt8_patient_id_number</i>]	Subject's IMACS number	text, Required				
	3	[<i>mmt8_reporter</i>]	Assessor	text, Required Custom alignment: RH				
	4	[<i>mmt8_assessment_date</i>]	Date of assessment (mm/dd/yyyy)	text (date_mdy), Required Field Annotation: @PREVENT-FUTUREDATE				
	5	[<i>mmt8_assessment_number</i>]	Assessment number	text, Required Custom alignment: RH				
	6	[<i>mmt8_dominant_side</i>]	MMT8 Dominant Side The side of the body that a person prefers to use for a given muscle group.	radio, Required <table><tr><td>1</td><td>Left</td></tr><tr><td>2</td><td>Right</td></tr></table> Custom alignment: LH	1	Left	2	Right
1	Left							
2	Right							
	7	[<i>mmt8_table_1</i>]	Section Header: <i>MANUAL MUSCLE TESTING 8 (MMT8)</i> Muscle Groups Right (0 - 10) Left (0 - 10) Axial (0 - 10) Axial Muscles (0-10) Neck flexors (0-10) X X {mmt8_neck_axial} Proximal Muscles (0-100) Deltoid middle (0-20) {mmt8_deltoid_right} {mmt8_deltoid_left} X Biceps brachii (0-20) {mmt8_biceps_right} {mmt8_biceps_left} X Gluteus maximus (0-20) {mmt8_gmax_right} {mmt8_gmax_left} X Gluteus Medius (0-20) {mmt8_gmed_right} {mmt8_gmed_left} X Quadriceps (0-20) {mmt8_quad_right} {mmt8_quad_left} X Distal Muscles (0-40) Wrist Extensors (0-20)	descriptive				

			{mmt8_wrist_right} {mmt8_wrist_left} X Ankle dorsiflexors (0-20) {mmt8_ankle_right} {mmt8_ankle_left} X MMT8 score* (0-80) {mmt8_total_score} Bilateral MMT8 score** (0-150) {mmt8_bilateral_score}	
	8	[mmt8_neck_axial]	Neck Axial	text (number, Min: 0, Max: 10)
	9	[mmt8_deltoid_right]	Deltoid Right	text (integer, Min: 0, Max: 10), Required
	10	[mmt8_deltoid_left]	Deltoid Left	text (integer, Min: 0, Max: 10)
	11	[mmt8_biceps_right]	Biceps Right	text (number, Min: 0, Max: 10)
	12	[mmt8_biceps_left]	Biceps Left	text (number, Min: 0, Max: 10)
	13	[mmt8_gmax_right]	Right Gluetus Max	text (number, Min: 0, Max: 10)
	14	[mmt8_gmax_left]	Left Gluteus Max	text (number, Min: 0, Max: 10)
	15	[mmt8_gmed_right]	Right Gluetus Med	text (number, Min: 0, Max: 10)
	16	[mmt8_gmed_left]	Left Gluteus Med	text (number, Min: 0, Max: 10)
	17	[mmt8_quad_right]	Quadriceps Right	text (integer, Min: 0, Max: 10)
	18	[mmt8_quad_left]	Quadriceps Left	text (integer, Min: 0, Max: 10)
	19	[mmt8_wrist_right]	Wrist Right	text (integer, Min: 0, Max: 10)
	20	[mmt8_wrist_left]	Wrist Left	text (integer, Min: 0, Max: 10)
	21	[mmt8_ankle_right]	Ankle Right	text (integer, Min: 0, Max: 10)
	22	[mmt8_ankle_left]	Ankle Left	text (integer, Min: 0, Max: 10)
	23	[mmt8_total_score]	MMT8 Total Raw Score	calc Calculation: if([mmt8_neck_axial] = " and [mmt8_deltoid_right] = " and [mmt8_biceps_right] = " and [mmt8_gmax_right] = " and [mmt8_gmed_right] = " and [mmt8_quad_right] = " and [mmt8_wrist_right] = " and [mmt8_ankle_right] = " and [mmt8_deltoid_left] = " and [mmt8_biceps_left] = " and [mmt8_gmax_left] = " and [mmt8_gmed_left] = " and [mmt8_quad_left] = " and [mmt8_wrist_left] = " and [mmt8_ankle_left] = " , , if([mmt8_dominant_side] = 1, (if([mmt8_neck_axial] = " , 0, [mmt8_neck_axial]) + if([mmt8_deltoid_left] = " , 0, [mmt8_deltoid_left]) + if([mmt8_biceps_left] = " , 0, [mmt8_biceps_left]) + if([mmt8_gmax_left] = " , 0, [mmt8_gmax_left]) + if([mmt8_gmed_left] = " , 0, [mmt8_gmed_left]) + if([mmt8_quad_left] = " , 0, [mmt8_quad_left]) + if([mmt8_wrist_left] = " , 0,

				[mmt8_wrist_left]) + if([mmt8_ankle_left] = "", 0, [mmt8_ankle_left]), (if([mmt8_neck_axial] = "", 0, [mmt8_neck_axial]) + if([mmt8_deltoid_right] = "", 0, [mmt8_deltoid_right]) + if([mmt8_biceps_right] = "", 0, [mmt8_biceps_right]) + if([mmt8_gmax_right] = "", 0, [mmt8_gmax_right]) + if([mmt8_gmed_right] = "", 0, [mmt8_gmed_right]) + if([mmt8_quad_right] = "", 0, [mmt8_quad_right]) + if([mmt8_wrist_right] = "", 0, [mmt8_wrist_right]) + if([mmt8_ankle_right] = "", 0, [mmt8_ankle_right]))))
	24	[mmt8_bilateral_score]	Bilateral MMT8 Total Raw Score	calc Calculation: sum ([mmt8_neck_axial], [mmt8_deltoid_right], [mmt8_biceps_right], [mmt8_gmax_right], [mmt8_gmed_right], [mmt8_quad_right], [mmt8_wrist_right], [mmt8_ankle_right], [mmt8_deltoid_left], [mmt8_biceps_left], [mmt8_gmax_left], [mmt8_gmed_left], [mmt8_quad_left], [mmt8_wrist_left], [mmt8_ankle_left])
	25	[mmt8_potential_score]	MMT8 Potential Score	calc Calculation: if([mmt8_neck_axial] = " and [mmt8_deltoid_right] = " and [mmt8_biceps_right] = " and [mmt8_gmax_right] = " and [mmt8_gmed_right] = " and [mmt8_quad_right] = " and [mmt8_wrist_right] = " and [mmt8_ankle_right] = " and [mmt8_deltoid_left] = " and [mmt8_biceps_left] = " and [mmt8_gmax_left] = " and [mmt8_gmed_left] = " and [mmt8_quad_left] = " and [mmt8_wrist_left] = " and [mmt8_ankle_left] = "", if([mmt8_dominant_side] = 1, (if([mmt8_neck_axial] = "", 1) + if([mmt8_deltoid_left] = "", 1) + if([mmt8_biceps_left] = "", 1) + if([mmt8_gmax_left] = "", 1) + if([mmt8_gmed_left] = "", 1) + if([mmt8_quad_left] = "", 1) + if([mmt8_wrist_left] = "", 1) + if([mmt8_ankle_left] = "", 1)) * 10, (if([mmt8_neck_axial] = "", 1) + if([mmt8_deltoid_right] = "", 1) + if([mmt8_biceps_right] = "", 1) + if([mmt8_gmax_right] = "", 1) + if([mmt8_gmed_right] = "", 1) + if([mmt8_quad_right] = "", 1) + if([mmt8_wrist_right] = "", 1) + if([mmt8_ankle_right] = "", 1)) * 10)) Field Annotation: @HIDDEN

	26	[mmt8_percent_score]	MMT8 Percent Score	calc Calculation: $\text{round}([\text{mmt8_total_score}]/[\text{mmt8_potential_score}],1)$ Field Annotation: @HIDDEN
	27	[mmt8_bilateral_pot_score]	MMT8 Bilateral Potential Score	calc Calculation: $\text{if}([\text{mmt8_neck_axial}] = " \text{ and } [\text{mmt8_deltoid_right}] = " \text{ and } [\text{mmt8_biceps_right}] = " \text{ and } [\text{mmt8_gmax_right}] = " \text{ and } [\text{mmt8_gmed_right}] = " \text{ and } [\text{mmt8_quad_right}] = " \text{ and } [\text{mmt8_wrist_right}] = " \text{ and } [\text{mmt8_ankle_right}] = " \text{ and } [\text{mmt8_deltoid_left}] = " \text{ and } [\text{mmt8_biceps_left}] = " \text{ and } [\text{mmt8_gmax_left}] = " \text{ and } [\text{mmt8_gmed_left}] = " \text{ and } [\text{mmt8_quad_left}] = " \text{ and } [\text{mmt8_wrist_left}] = " \text{ and } [\text{mmt8_ankle_left}] = ", ", (\text{if}([\text{mmt8_neck_axial}] = ", ", 1) + \text{if}([\text{mmt8_deltoid_right}] = ", ", 1) + \text{if}([\text{mmt8_biceps_right}] = ", ", 1) + \text{if}([\text{mmt8_gmax_right}] = ", ", 1) + \text{if}([\text{mmt8_gmed_right}] = ", ", 1) + \text{if}([\text{mmt8_quad_right}] = ", ", 1) + \text{if}([\text{mmt8_wrist_right}] = ", ", 1) + \text{if}([\text{mmt8_ankle_right}] = ", ", 1) + \text{if}([\text{mmt8_deltoid_left}] = ", ", 1) + \text{if}([\text{mmt8_biceps_left}] = ", ", 1) + \text{if}([\text{mmt8_gmax_left}] = ", ", 1) + \text{if}([\text{mmt8_gmed_left}] = ", ", 1) + \text{if}([\text{mmt8_quad_left}] = ", ", 1) + \text{if}([\text{mmt8_wrist_left}] = ", ", 1) + \text{if}([\text{mmt8_ankle_left}] = ", ", 1)) * 10)$ Field Annotation: @HIDDEN
	28	[mmt8_adjusted_score]	Section Header: MMT8 SCORE (0-80, includes missing data)	calc Calculation: $\text{round}([\text{mmt8_total_score}] * 80) / [\text{mmt8_potential_score}], 1)$
	29	[mmt8_bilateral_adj_score]	BILATERAL MMT8 SCORE (0-150, includes missing data)	calc Calculation: $\text{round}([\text{mmt8_bilateral_score}] * 150) / [\text{mmt8_bilateral_pot_sc}]$
	30	[mmt8_info]	*MMT8 is a set of 8 designated muscles tested unilaterally (potential score 0 - 80), generally on right side (unless cannot be tested on right, then use left side). Rider LG, Koziol D, Giannini EH, et al. Validation of manual muscle testing and a subset of eight muscles for adult and juvenile idiopathic inflammatory myopathies. Arthritis Care Res (Hoboken). 2010 Apr;62(4):465-72. doi: 10.1002/acr.20035. PMID: 20391500; PMCID: PMC292414**Bilateral MMT8: The potential range is 0 to 150. It includes the sum of one axial muscle unilaterally, 5 proximal muscle groups bilaterally, and 2 distal muscle groups bilaterally. Oddis CV, Reed AM,	descriptive

			Aggarwal R, et all. Rituximab in the treatment of refractory adult and juvenile dermatomyositis and adult polymyositis: a randomized, placebo-phase trial. Arthritis Rheum. 2013 Feb;65(2):314-24. doi: 10.1002/art.37754. PMID: 23124935; PMCID: PMC3558563							
	31	[mmt8_muscle_strength]	Key to Muscle Grading (image)	descriptive						
	32	[manual_muscle_testing_8_mmt8_complete]	Section Header: <i>Form Status</i> Complete?	dropdown <table><tr><td>0</td><td>Incomplete</td></tr><tr><td>1</td><td>Unverified</td></tr><tr><td>2</td><td>Complete</td></tr></table>	0	Incomplete	1	Unverified	2	Complete
0	Incomplete									
1	Unverified									
2	Complete									