

Data Dictionary Codebook

IMACS Codebooks (PID: 483)

09/04/2026 5:22pm

Instruments	
Instrument	Form Name
Two Minute And Six Minute Walk Test	two_minute_and_six_minute_walk_test

[Collapse all instruments](#)

	#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)				
Instrument: Two Minute And Six Minute Walk Test (two_minute_and_six_minute_walk_test)								
	1	[study_id]	Study ID	text				
	2	[walk_imacs_number]	Subject's IMACS number	text, Required				
	3	[walk_date_assess]	Date of Assessment	text (date_mdy), Required Field Annotation: @PREVENT-FUTUREDATE				
	4	[walk_assess_num]	Assessment number	text, Required				
	5	[walk_assessor]	Assessor	text, Required				
	6	[walk_time]	Time	text (time), Required				
	7	[walk_ue]	Dominant limb - UE	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							
	8	[walk_le]	Dominant limb - LE	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							
	9	[walk_title]	Two-Minute and Six-Minute Walk Test	descriptive				

10	[walk_sex]	Sex:	radio, Required <table><tr><td>1</td><td>F</td></tr><tr><td>2</td><td>M</td></tr></table> Custom alignment: LH	1	F	2	M
1	F						
2	M						
11	[walk_age]	Age: years	text (number, Min: 0), Required				
12	[walk_race]	Race:	text, Required				
13	[walk_body_weight_lbs] Show the field ONLY if: [walk_body_weight_kg] = ""	Weight: lbs	text (number, Min: 0, Max: 1400), Required				
14	[walk_body_weight_kg] Show the field ONLY if: [walk_body_weight_lbs] = ""	Weight: kg	text (number, Min: 0, Max: 635), Required				
15	[walk_height_ft] Show the field ONLY if: [walk_height_cm] = "	Height: ft	text (integer, Min: 0, Max: 8), Required				
16	[walk_height_in] Show the field ONLY if: [walk_height_cm] = "	Height: in	text (integer, Min: 0, Max: 11), Required				
17	[walk_height_table] Show the field ONLY if: [walk_height_cm] = "	Height: {walk_height_ft} ft {walk_height_in} in	descriptive				
18	[walk_height_cm] Show the field ONLY if: [walk_height_ft] = " and [walk_height_in] = "	Height: cm	text (integer, Min: 50, Max: 350), Required				
19	[walk_supplemental_oxygen]	Supplemental oxygen during the test:	radio, Required <table><tr><td>0</td><td>No</td></tr><tr><td>1</td><td>Yes</td></tr></table>	0	No	1	Yes
0	No						
1	Yes						

				Custom alignment: LH
	20	[walk_supplemental_flow] Show the field ONLY if: [walk_supplemental_oxygen] = '1'	Flow <i>L/min</i>	text (number_1dp, Min: 1, Max: 15), Required
	21	[walk_supplemental_type] Show the field ONLY if: [walk_supplemental_oxygen] = '1'	Type	text, Required
	22	[walk_table]	Resting Immediate Post-test* Recovery (10 mins) Oxygen Saturation (%): {walk_oxygen_sat_resting} {walk_oxygen_sat_imed_post} {walk_oxygen_sat_recovery} Heart Rate (bpm): {walk_hr_resting} {walk_hr_imed_post} {walk_hr_recovery} Blood Pressure (mm Hg): {walk_bp_resting} {walk_bp_imed_post} {walk_bp_recovery} Dyspnea (Borg scale): {walk_dyspnea_resting} {walk_dyspnea_imed_post} {walk_dyspnea_recovery} Fatigue (Borg scale): {walk_fatigue_resting} {walk_fatigue_imed_post} {walk_fatigue_recovery} * Oxygen saturation should be measured immediate post-test, but other parameters may be assessed up to 1 minute post-test. The heart rate and blood pressure are optional post-test	descriptive
	23	[walk_oxygen_sat_resting]	Oxygen Saturation - Resting	text (integer, Min: 60, Max: 100), Required
	24	[walk_oxygen_sat_imed_post]	Oxygen Saturation - Immediate Post-Test	text (integer, Min: 60, Max: 100), Required
	25	[walk_oxygen_sat_recovery]	Oxygen Saturation - Recovery	text (integer, Min: 60, Max: 100), Required
	26	[walk_hr_resting]	Heart Rate - Resting	text (integer, Min: 40, Max: 220), Required
	27	[walk_hr_imed_post]	Heart Rate - Immediate Post-Test	text (integer, Min: 40, Max: 220)
	28	[walk_hr_recovery]	Heart Rate - Recovery	text (integer, Min: 40, Max: 220)
	29	[walk_bp_resting]	Blood Pressure - Resting	text, Required
	30	[walk_bp_imed_post]	Blood Pressure - Immediate Post-Test	text

	31	[walk_bp_recovery]	Blood Pressure - Recovery	text																									
	32	[walk_dyspnea_resting]	Dyspnea - Resting	radio, Required <table><tr><td>0</td><td>0 - Nothing at all</td></tr><tr><td>0.5</td><td>0.5 - Very, very slight (just noticeable)</td></tr><tr><td>1</td><td>1 - Very slight</td></tr><tr><td>2</td><td>2 - Slight (light)</td></tr><tr><td>3</td><td>3 - Moderate</td></tr><tr><td>4</td><td>4 - Somewhat severe</td></tr><tr><td>5</td><td>5 - Severe (heavy)</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 - Very severe</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr><tr><td>10</td><td>10 - Very, very severe (maximal)</td></tr></table>		0	0 - Nothing at all	0.5	0.5 - Very, very slight (just noticeable)	1	1 - Very slight	2	2 - Slight (light)	3	3 - Moderate	4	4 - Somewhat severe	5	5 - Severe (heavy)	6	6	7	7 - Very severe	8	8	9	9	10	10 - Very, very severe (maximal)
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	33	[walk_dyspnea_imed_post]	Dyspnea - Immediate Post-Test	radio, Required <table><tr><td>0</td><td>0 - Nothing at all</td></tr><tr><td>0.5</td><td>0.5 - Very, very slight (just noticeable)</td></tr><tr><td>1</td><td>1 - Very slight</td></tr><tr><td>2</td><td>2 - Slight (light)</td></tr><tr><td>3</td><td>3 - Moderate</td></tr><tr><td>4</td><td>4 - Somewhat severe</td></tr><tr><td>5</td><td>5 - Severe (heavy)</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 - Very severe</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr><tr><td>10</td><td>10 - Very, very severe (maximal)</td></tr></table>		0	0 - Nothing at all	0.5	0.5 - Very, very slight (just noticeable)	1	1 - Very slight	2	2 - Slight (light)	3	3 - Moderate	4	4 - Somewhat severe	5	5 - Severe (heavy)	6	6	7	7 - Very severe	8	8	9	9	10	10 - Very, very severe (maximal)
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	34	[walk_dyspnea_recovery]	Dyspnea - Recovery	radio, Required <table><tr><td>0</td><td>0 - Nothing at all</td></tr><tr><td>0.5</td><td>0.5 - Very, very slight (just noticeable)</td></tr><tr><td>1</td><td>1 - Very slight</td></tr><tr><td>2</td><td>2 - Slight (light)</td></tr><tr><td>3</td><td>3 - Moderate</td></tr><tr><td>4</td><td>4 - Somewhat severe</td></tr><tr><td>5</td><td>5 - Severe (heavy)</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 - Very severe</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr><tr><td>10</td><td>10 - Very, very severe (maximal)</td></tr></table>	0	0 - Nothing at all	0.5	0.5 - Very, very slight (just noticeable)	1	1 - Very slight	2	2 - Slight (light)	3	3 - Moderate	4	4 - Somewhat severe	5	5 - Severe (heavy)	6	6	7	7 - Very severe	8	8	9	9	10	10 - Very, very severe (maximal)
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	35	[walk_fatigue_resting]	Fatigue - Resting	radio, Required <table><tr><td>0</td><td>0 - Nothing at all</td></tr><tr><td>0.5</td><td>0.5 - Very, very slight (just noticeable)</td></tr><tr><td>1</td><td>1 - Very slight</td></tr><tr><td>2</td><td>2 - Slight (light)</td></tr><tr><td>3</td><td>3 - Moderate</td></tr><tr><td>4</td><td>4 - Somewhat severe</td></tr><tr><td>5</td><td>5 - Severe (heavy)</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 - Very severe</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr><tr><td>10</td><td>10 - Very, very severe (maximal)</td></tr></table>	0	0 - Nothing at all	0.5	0.5 - Very, very slight (just noticeable)	1	1 - Very slight	2	2 - Slight (light)	3	3 - Moderate	4	4 - Somewhat severe	5	5 - Severe (heavy)	6	6	7	7 - Very severe	8	8	9	9	10	10 - Very, very severe (maximal)
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	36	[walk_fatigue_imed_post]	Fatigue - Immediate Post-Test	radio, Required																								

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37	[walk_fatigue_recovery]	Fatigue - Recovery		radio, Required <table><tr><td>0</td><td>0 - Nothing at all</td></tr><tr><td>0.5</td><td>0.5 - Very, very slight (just noticeable)</td></tr><tr><td>1</td><td>1 - Very slight</td></tr><tr><td>2</td><td>2 - Slight (light)</td></tr><tr><td>3</td><td>3 - Moderate</td></tr><tr><td>4</td><td>4 - Somewhat severe</td></tr><tr><td>5</td><td>5 - Severe (heavy)</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 - Very severe</td></tr><tr><td>8</td><td>8</td></tr><tr><td>9</td><td>9</td></tr><tr><td>10</td><td>10 - Very, very severe (maximal)</td></tr></table>	0	0 - Nothing at all	0.5	0.5 - Very, very slight (just noticeable)	1	1 - Very slight	2	2 - Slight (light)	3	3 - Moderate	4	4 - Somewhat severe	5	5 - Severe (heavy)	6	6	7	7 - Very severe	8	8	9	9	10	10 - Very, very severe (maximal)
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38	[walk_pulse_oximetry_loc]	Pulse Oximetry Location:		radio, Required <table><tr><td>1</td><td>Fingertip</td></tr></table>	1	Fingertip																						
1	Fingertip																											

				<table><tr><td>2</td><td>Earlobe</td></tr><tr><td>3</td><td>Forehead</td></tr><tr><td>96</td><td>Other</td></tr></table>	2	Earlobe	3	Forehead	96	Other
2	Earlobe									
3	Forehead									
96	Other									
				Custom alignment: LH						
	39	[walk_oximetry_loc_specify] Show the field ONLY if: [walk_pulse_oximetry_loc] = '96'	Specify other:	text, Required						
	40	[walk_lap_distance]	Lap distance in meters: One lap = meters	text (number_2dp, Min: 20, Max: 60)						
	41	[walk_distance_2min]	Section Header: 2 Minute Distance Walked: meters	text (number_2dp, Min: 0, Max: 220), Required						
	42	[walk_laps_2min]	# laps:	text (integer, Min: 0, Max: 11), Required						
	43	[walk_additional_2min]	+ additional meters: meters	text (number_2dp, Min: 0, Max: [walk_lap_distance]), Required						
	44	[walk_duration_limited2_min]	Duration limited in minutes:	text (integer, Min: 0, Max: 2), Required						
	45	[walk_duration_limited2_sec] Show the field ONLY if: [walk_duration_limited2_min] < 2 or [walk_duration_limited2_min] = "	Duration limited in seconds:	text (number, Min: 0, Max: 59.99999), Required						
	46	[walk_comments2]	Comments:	notes						
	47	[walk_distance_6min]	Section Header: 6 Minute Distance Walked: meters	text (number_2dp, Min: 0, Max: 900), Required						
	48	[walk_laps_6min]	# laps:	text (integer, Min: 0, Max: 45), Required						

49	[walk_additional_6min]	+ additional meters: <i>meters</i>	text (number_2dp, Min: 0, Max: [walk_lap_distance]), Required
50	[walk_duration_limited6_min]	Duration limited in minutes:	text (integer, Min: 0, Max: 6), Required
51	[walk_duration_limited6_sec] Show the field ONLY if: [walk_duration_limited6_min] < 6 or [walk_duration_limited6_min] = "	Duration limited in seconds:	text (number, Min: 0, Max: 59.99999), Required
52	[walk_comments6]	Comments:	notes
53	[walk_table_2]	Devices used to perform the test: Gait Aid used? Left Right None Cane {walk_aid_cane1} {walk_aid_cane2} {walk_aid_cane3} Walker {walk_aid_walker1} {walk_aid_walker2} {walk_aid_walker3} AFO {walk_aid_afo1} {walk_aid_afo2} {walk_aid_afo3} Brace {walk_aid_brace1} {walk_aid_brace2} {walk_aid_brace3} Other Device, Specify: {walk_aid_other_device_spfy} {walk_aid_other1} {walk_aid_other2} {walk_aid_other3}	descriptive
54	[walk_aid_cane1] Show the field ONLY if: [walk_aid_cane3(1)] <>'1'	Cane - Left side	checkbox 1 walk_aid_cane1__1
55	[walk_aid_cane2] Show the field ONLY if: [walk_aid_cane3(1)] <>'1'	Cane - Right side	checkbox 1 walk_aid_cane2__1
56	[walk_aid_cane3] Show the field ONLY if: [walk_aid_cane1(1)] <>'1' and [walk_aid_cane2(1)] <>'1'	Cane - None	checkbox 1 walk_aid_cane3__1
57	[walk_aid_walker1] Show the field ONLY if: [walk_aid_walker3(1)] <>'1'	Walker - Left side	checkbox 1 walk_aid_walker1__1
58	[walk_aid_walker2]	Walker - Right side	checkbox

		Show the field ONLY if: [walk_aid_walker3(1)] <>'1'		1 walk_aid_walker2__1
59	[walk_aid_walker3]	Walker - None Show the field ONLY if: [walk_aid_walker1(1)] <>'1' and [walk_aid_walker2(1)] <>'1'		checkbox 1 walk_aid_walker3__1
60	[walk_aid_afo1]	AFO - Right side Show the field ONLY if: [walk_aid_afo3(1)] <>'1'		checkbox 1 walk_aid_afo1__1
61	[walk_aid_afo2]	AFO - Left side Show the field ONLY if: [walk_aid_afo3(1)] <>'1'		checkbox 1 walk_aid_afo2__1
62	[walk_aid_afo3]	AFO - None Show the field ONLY if: [walk_aid_afo1(1)] <>'1' and [walk_aid_afo2(1)] <>'1'		checkbox 1 walk_aid_afo3__1
63	[walk_aid_brace1]	Brace - Right side Show the field ONLY if: [walk_aid_brace3(1)] <>'1'		checkbox 1 walk_aid_brace1__1
64	[walk_aid_brace2]	Brace - Left side Show the field ONLY if: [walk_aid_brace3(1)] <>'1'		checkbox 1 walk_aid_brace2__1
65	[walk_aid_brace3]	Brace - None Show the field ONLY if: [walk_aid_brace1(1)] <>'1' and [walk_aid_brace2(1)] <>'1'		checkbox 1 walk_aid_brace3__1
66	[walk_aid_other1]	Other device - Right side Show the field ONLY if: [walk_aid_other3(1)] <>'1'		checkbox 1 walk_aid_other1__1
67	[walk_aid_other2]	Other device - Left side Show the field ONLY if:		checkbox 1 walk_aid_other2__1

		[walk_aid_other3(1)] <>'1'		
68	[walk_aid_other3]	Other device - None	checkbox 1 walk_aid_other3__1	
		Show the field ONLY if: [walk_aid_other1(1)] <>'1' and [walk_aid_other2(1)] <>'1'		
69	[walk_aid_other_device_spfy]	Specify:	text, Required	
		Show the field ONLY if: [walk_aid_other1(1)] = '1' or [walk_aid_other2(1)] = '1'		
70	[walk_table_3]	Limitations in performing the test (check all that apply): Limitation of ROM {walk_limit_rom} Pain {walk_pain} Subject fatigued with testing {walk_fatigue} Poor effort {walk_poor_effort} Intolerable dyspnea {walk_intolerable_dyspnea} Other limitation {walk_other_limit}(Specify) {walk_other_test_spfy}	descriptive	
71	[walk_limit_rom]	Limitation of ROM	checkbox 1 walk_limit_rom__1 Custom alignment: RH	
72	[walk_pain]	Pain	checkbox 1 walk_pain__1 Custom alignment: RH	
73	[walk_fatigue]	Fatigue	checkbox 1 walk_fatigue__1 Custom alignment: RH	
74	[walk_poor_effort]	Poor effort	checkbox 1 walk_poor_effort__1 Custom alignment: RH	
75	[walk_intolerable_dyspnea]	Intolerable dyspnea	checkbox	

				1 walk_intolerable_dyspnea__1 Custom alignment: RH
	76	[walk_other_limit]	Other limitation	checkbox 1 walk_other_limit__1 Custom alignment: RH
	77	[walk_other_test_spfy] Show the field ONLY if: [walk_other_limit(1)] = '1'	If other, please specify:	text, Required Custom alignment: LV
	78	[walk_dist_2min_meters]	1- Distance in 2 Minutes Test <i>meters</i>	calc Calculation: sum(([walk_laps_2min] * [walk_lap_distance]), [walk_additional_2min])
	79	[walk_dist_6min_meters]	2- Distance in 6 Minutes Test <i>meters</i>	calc Calculation: sum(([walk_laps_6min] * [walk_lap_distance]), [walk_additional_6min])
	80	[walk_dur_2min_seconds]	3- Duration for 2 Minutes Test <i>seconds</i>	calc Calculation: sum(([walk_duration_limited2_min] * 60),[walk_duration_limited2_sec])
	81	[walk_6min_time]	4- Duration for 6 Minutes Test <i>seconds</i>	calc Calculation: sum(([walk_duration_limited6_min] * 60),[walk_duration_limited6_sec])
	82	[walk_2min_speed]	5- Walk Speed in 2 Minutes Test <i>meters/second (m/s)</i>	calc Calculation: round([walk_dist_2min_meters] / [walk_dur_2min_seconds], 1)
	83	[walk_6min_speed]	6- Walk Speed in 6 Minutes Test <i>meters/second (m/s)</i>	calc Calculation: round([walk_dist_6min_meters] / [walk_6min_time], 1)
	84	[walk_references]	Reference: ATS Committee on Proficiency Standards for Clinical Pulmonary Function Laboratories. ATS statement: guidelines for the six-minute walk test. Am J Respir Crit Care Med. 2002 Jul 1;166(1):111-7. doi: 10.1164/ajrccm.166.1.at1102. PMID: 12091180	descriptive

	85	[two_minute_and_six_minute_walk_test_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
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