

Data Dictionary Codebook

IMACS Codebooks (PID: 483)

09/04/2026 5:03pm

Instruments	
Instrument	Form Name
Disease Activity Score (DAS)	disease_activity_score_das

[Collapse all instruments](#)

	#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)
Instrument: Disease Activity Score (DAS) (disease_activity_score_das)				
	1	[study_id]	Study ID	text
	2	[das_author]	From Dr. Lauren Pachman	descriptive
	3	[das_header_table]	Subject IMACS Number {das_patient_id_number} ASSESSOR {das_reporter} DATE OF ASSESSMENT (MM/DD/YYYY) {das_assessment_date} ASSESSMENT NUMBER {das_assessment_number}	descriptive
	4	[das_patient_id_number]	Subject IMACS Number	text, Required
	5	[das_reporter]	ASSESSOR	text, Required
	6	[das_assessment_date]	DATE OF ASSESSMENT (MM/DD/YYYY)	text (date_mdy), Required Field Annotation: @PREVENT-FUTUREDATE
	7	[das_assessment_number]	ASSESSMENT NUMBER	text, Required
	8	[das_funcnt_table]	FUNCTIONAL STATUS (CHOOSE 1 CATEGORY AND REPORT VALUE IN THE SCORE COLUMN; RANGE FOR THIS SECTION IS 0 TO 3); (SCORE) {das_funcnt_status_score} Normal function, able to attend school, keeps up with friends 0 Minimal Limitations, keeps up with friends except for running 0.5 Mild limitations, tires after walking few blocks, general fatigue 1 Moderate limitations, requires assistance with stair-climbing, activity of daily living 2 Severe limits, wheelchair-bound, unable to attend school, climb stairs etc. 3	descriptive

9	[das_funcst_status_score]	(CHOOSE 1 CATEGORY AND REPORT VALUE IN THE SCORED COLUMN;RANGE FOR THIS SECTION IS 0 TO 3);	dropdown, Required <table><tr><td>0</td><td>0 - Normal function, able to attend school, keeps up with friends</td></tr><tr><td>.5</td><td>0.5 - Minimal Limitations, keeps up with friends except for running</td></tr><tr><td>1</td><td>1 - Mild limitations, tires after walking few blocks, general fatigue</td></tr><tr><td>2</td><td>2 - Moderate limitations, requires assistance with stair-climbing, activity of daily living</td></tr><tr><td>3</td><td>3 - Severe limits, wheelchair-bound, unable to attend school, climb stairs etc.</td></tr></table>	0	0 - Normal function, able to attend school, keeps up with friends	.5	0.5 - Minimal Limitations, keeps up with friends except for running	1	1 - Mild limitations, tires after walking few blocks, general fatigue	2	2 - Moderate limitations, requires assistance with stair-climbing, activity of daily living	3	3 - Severe limits, wheelchair-bound, unable to attend school, climb stairs etc.
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10	[das_weakness_table]	WEAKNESS (SCORE '1' POINT FOR EACH AREA OF WEAKNESS NOTED; CIRCLE ALL THAT APPLY AND SUM ALL YES AND THEN REPORT VALUE IN THE SCORE COLUMN; RANGE FOR THIS SECTION 0 IS TO 8): (SCORE) {das_weakness_score} (a) Neck flexor weakness 1 2 3 4 5 (-) (+) Grade: {das_neckflexor_grade} {das_neckflexor_weakness} (b) Abdominal/core weakness (Lack of age appropriate performance scored as 1) {das_abdominal_weakness} {das_abdo_weak_situp_desc} {das_abdominal_weak_situp} (c) Upper proximal muscle weakness 1 2 3 4 5 (-) (+) Grade: {das_upper_proximal_grade} {das_upper_prox_weakness} (d) Lower proximal muscle weakness 1 2 3 4 5 (-) (+) Grade:{das_lower_proximal_grade} {das_lower_prox_weakness} (e) Gower's sign (assisted/unassisted) {das_gowers_sign} (f) Abnormal gait {das_abnormal_gait} (g) Difficulty swallowing {das_swallowing_difficulty} (h) Nasal speech {das_nasal_speech}	descriptive										
11	[das_neckflexor_weakness]	(a) Neck flexor weakness	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES						
0	0 - NO												
1	1 - YES												

12	[das_neckflexor_grade]	Neck flexor weakness grade	dropdown, Required <table><tr><td>0</td><td>0: No movement</td></tr><tr><td>1</td><td>1: A flicker of movement is seen or felt in the muscle</td></tr><tr><td>2</td><td>2: Muscle moves the joint when gravity is eliminated</td></tr><tr><td>2.5</td><td>3-: Muscle moves the joint against gravity, but not through the full mechanical range of motion</td></tr><tr><td>3</td><td>3: Muscle cannot hold the joint against resistance, but moves the joint fully against gravity</td></tr><tr><td>3.5</td><td>3+: Muscle moves the joint fully against gravity, but collapses abruptly</td></tr><tr><td>3.6</td><td>4-: Same as grade 4, but muscle holds the joint only against minimal resistance</td></tr><tr><td>4</td><td>4: Muscle holds the joint against a combination of gravity and moderate resistance</td></tr><tr><td>4.5</td><td>4+: Same as grade 4, but muscle holds the joint against moderate to maximal resistance</td></tr><tr><td>4.6</td><td>5-: Barely detectable weakness</td></tr><tr><td>5</td><td>5: Normal strength</td></tr></table>	0	0: No movement	1	1: A flicker of movement is seen or felt in the muscle	2	2: Muscle moves the joint when gravity is eliminated	2.5	3-: Muscle moves the joint against gravity, but not through the full mechanical range of motion	3	3: Muscle cannot hold the joint against resistance, but moves the joint fully against gravity	3.5	3+: Muscle moves the joint fully against gravity, but collapses abruptly	3.6	4-: Same as grade 4, but muscle holds the joint only against minimal resistance	4	4: Muscle holds the joint against a combination of gravity and moderate resistance	4.5	4+: Same as grade 4, but muscle holds the joint against moderate to maximal resistance	4.6	5-: Barely detectable weakness	5	5: Normal strength
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13	[das_abdominal_weakness]	(b) Abdominal/core weakness (Lack of age appropriate performance scored as 1)	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES																		
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1	1 - YES																								
14	[das_abdo_weak_situp_desc] Show the field ONLY if: [das_abdominal_weakness] = '1' or [das_abdominal_weakn	CHECK one answer for the one type of sit-up the child is able to perform: 1. Cannot clear scapula 2. Arms extended 3. Clears 1/3 of scapula 4. Arms crossed on torso 5. Hands behind head.	descriptive																						

		ess] = "																		
	15	[das_abdominal_weak_situp] Show the field ONLY if: [das_abdominal_weakness] = '1' or [das_abdominal_weakness] = "	CHECK one circle for the one type of sit-up the child is able to perform:	radio, Required <table><tr><td>1</td><td>1. Cannot clear scapula</td></tr><tr><td>2</td><td>2. Arms extended</td></tr><tr><td>3</td><td>3. Clears 1/3 of scapula</td></tr><tr><td>4</td><td>4. Arms crossed on torso</td></tr><tr><td>5</td><td>5. Hands behind head.</td></tr></table> Custom alignment: LV	1	1. Cannot clear scapula	2	2. Arms extended	3	3. Clears 1/3 of scapula	4	4. Arms crossed on torso	5	5. Hands behind head.						
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	16	[das_upper_prox_weakness]	(c) Upper proximal muscle weakness	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES												
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	17	[das_upper_proximal_grade]	Upper proximal muscle weakness grade	dropdown, Required <table><tr><td>0</td><td>0: No movement</td></tr><tr><td>1</td><td>1: A flicker of movement is seen or felt in the muscle</td></tr><tr><td>2</td><td>2: Muscle moves the joint when gravity is eliminated</td></tr><tr><td>2.5</td><td>3-: Muscle moves the joint against gravity, but not through the full mechanical range of motion</td></tr><tr><td>3</td><td>3: Muscle cannot hold the joint against resistance, but moves the joint fully against gravity</td></tr><tr><td>3.5</td><td>3+: Muscle moves the joint fully against gravity, but collapses abruptly</td></tr><tr><td>3.6</td><td>4-: Same as grade 4, but muscle holds the joint only against minimal resistance</td></tr><tr><td>4</td><td>4: Muscle holds the joint against a combination of gravity and moderate</td></tr></table>	0	0: No movement	1	1: A flicker of movement is seen or felt in the muscle	2	2: Muscle moves the joint when gravity is eliminated	2.5	3-: Muscle moves the joint against gravity, but not through the full mechanical range of motion	3	3: Muscle cannot hold the joint against resistance, but moves the joint fully against gravity	3.5	3+: Muscle moves the joint fully against gravity, but collapses abruptly	3.6	4-: Same as grade 4, but muscle holds the joint only against minimal resistance	4	4: Muscle holds the joint against a combination of gravity and moderate
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				Custom alignment: LV																
	18	[das_lower_prox_weakness]	(d) Lower proximal muscle weakness	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table>	0	0 - NO	1	1 - YES												
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	19	[das_lower_proximal_grade]	Lower proximal muscle weakness grade	dropdown, Required <table><tr><td>0</td><td>0: No movement</td></tr><tr><td>1</td><td>1: A flicker of movement is seen or felt in the muscle</td></tr><tr><td>2</td><td>2: Muscle moves the joint when gravity is eliminated</td></tr><tr><td>2.5</td><td>3-: Muscle moves the joint against gravity, but not through the full mechanical range of motion</td></tr><tr><td>3</td><td>3: Muscle cannot hold the joint against resistance, but moves the joint fully against gravity</td></tr><tr><td>3.5</td><td>3+: Muscle moves the joint fully against gravity, but collapses abruptly</td></tr><tr><td>3.6</td><td>4-: Same as grade 4, but muscle holds the joint only against minimal resistance</td></tr><tr><td>4</td><td>4: Muscle holds the joint against a combination of gravity and moderate resistance</td></tr></table>	0	0: No movement	1	1: A flicker of movement is seen or felt in the muscle	2	2: Muscle moves the joint when gravity is eliminated	2.5	3-: Muscle moves the joint against gravity, but not through the full mechanical range of motion	3	3: Muscle cannot hold the joint against resistance, but moves the joint fully against gravity	3.5	3+: Muscle moves the joint fully against gravity, but collapses abruptly	3.6	4-: Same as grade 4, but muscle holds the joint only against minimal resistance	4	4: Muscle holds the joint against a combination of gravity and moderate resistance
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5	5: Normal strength									
	20	[das_gowers_sign]	(e) Gower's sign (assisted /unassisted)	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES		
0	0 - NO									
1	1 - YES									
	21	[das_abnormal_gait]	(f) Abnormal gait	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES		
0	0 - NO									
1	1 - YES									
	22	[das_swallowing_difficulty]	(g) Difficulty swallowing	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES		
0	0 - NO									
1	1 - YES									
	23	[das_nasal_speech]	(h) Nasal speech	radio, Required <table><tr><td>0</td><td>0 - NO</td></tr><tr><td>1</td><td>1 - YES</td></tr></table> Custom alignment: RH	0	0 - NO	1	1 - YES		
0	0 - NO									
1	1 - YES									
	24	[das_skin_table]	SKIN INVOLVEMENT TYPE (choose one category and report value in the score column; range for this section is 0 to 4): (SCORE) { das_skin_type_score } Absent or resolved completely 0 Atrophic changes only 1 Erythema - mild 2 Erythema - moderate 3 Erythema - severe 4 Data not obtained	descriptive						

25	[das_skin_type_score]	SKIN INVOLVEMENT TYPE (choose one category and report value in the score column; range for this section is 0 to 4)	dropdown, Required <table><tr><td>0</td><td>0 - Absent or resolved completely</td></tr><tr><td>1</td><td>1 - Atrophic changes only</td></tr><tr><td>2</td><td>2 - Erythema - mild</td></tr><tr><td>3</td><td>3 - Erythema - moderate</td></tr><tr><td>4</td><td>4 - Erythema - severe</td></tr><tr><td>-9</td><td>Data not obtained</td></tr></table> Custom alignment: LV	0	0 - Absent or resolved completely	1	1 - Atrophic changes only	2	2 - Erythema - mild	3	3 - Erythema - moderate	4	4 - Erythema - severe	-9	Data not obtained
0	0 - Absent or resolved completely														
1	1 - Atrophic changes only														
2	2 - Erythema - mild														
3	3 - Erythema - moderate														
4	4 - Erythema - severe														
-9	Data not obtained														
26	[das_skin_distrib_table]	SKIN INVOLVEMENT DISTRIBUTION (choose one category and report value in the score column; range for this section is 0 to 3): (SCORE) {das_skin_distrib_score} None 0 Focal (including area of joint related skin) 1 Diffuse (including extensor surfaces of limbs shawl area) 2 Generalized (including trunk involvement) 3	descriptive												
27	[das_skin_distrib_score]	SKIN INVOLMENT DISTRUBUTION (choose one category and report value in the score column; range for this section is 0 to 3)	dropdown, Required <table><tr><td>0</td><td>0 - None</td></tr><tr><td>1</td><td>1 - Focal (including area of joint related skin)</td></tr><tr><td>2</td><td>2 - Diffuse (including extensor surfaces of limbs shawl area)</td></tr><tr><td>3</td><td>3 - Generalized (including trunk involvement)</td></tr></table> Custom alignment: LV	0	0 - None	1	1 - Focal (including area of joint related skin)	2	2 - Diffuse (including extensor surfaces of limbs shawl area)	3	3 - Generalized (including trunk involvement)				
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3	3 - Generalized (including trunk involvement)														
28	[das_vasc_table]	VASCULITIS If NONE of the categories below are present then score "0" points for this section, if ANY of the categories below are present, then score "1" for this section: range is 0 to 1 (SCORE) {das_vasculitis_score} (a) Eyelid erythema {das_eyelid_erythema} (b) Eyelid blood vessel dilation {das_eyelid_vessel_dilate} (c) Eyelid blood vessel thrombosis {das_eyelid_thrombosis} (d) Nailfold erythema (cuticles) {das_nailfold_erythema} (e) Nail bed telangiectasia {das_nail_telangiectasia} (f) Palate vessel dilation {das_palate_dilation} (g) Other {das_other_vasculitis}	descriptive												

29	[das_eyelid_erythema]	(a) Eyelid erythema	radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present
0	0 - Absent						
1	1 - Present						
30	[das_eyelid_vessel_dilate]	(b) Eyelid blood vessel dilation	radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present
0	0 - Absent						
1	1 - Present						
31	[das_eyelid_thrombosis]	(c) Eyelid blood vessel thrombosis	radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present
0	0 - Absent						
1	1 - Present						
32	[das_nailfold_erythema]	(d) Nailfold erythema (cuticles)	radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present
0	0 - Absent						
1	1 - Present						
33	[das_nail_telangiectasia]	(e) Nail bed telangiectasia	radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present
0	0 - Absent						
1	1 - Present						
34	[das_palate_dilation]	(f) Palate vessel dilation	radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present
0	0 - Absent						
1	1 - Present						
35	[das_other_vasculitis]	(g) Other	radio, Required				

				<table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Present</td></tr></table> Custom alignment: RH	0	0 - Absent	1	1 - Present				
0	0 - Absent											
1	1 - Present											
36	[das_other_vasculitis_spfy] Show the field ONLY if: [das_other_vasculitis] = '1'	Specify other:		text, Required								
37	[das_vasculitis_score]	DAS Vasculitis Score		calc Calculation: if ([das_eyelid_erythema] = " and [das_eyelid_vessel_dilate] = " and [das_eyelid_thrombosis] = " and [das_nailfold_erythema] = " and [das_nail_telangiectasia] = " and [das_palate_dilation] = " and [das_other_vasculitis] = ", ", if ([das_eyelid_erythema] = '1' or [das_eyelid_vessel_dilate] = '1' or [das_eyelid_thrombosis] = '1' or [das_nailfold_erythema] = '1' or [das_nail_telangiectasia] = '1' or [das_palate_dilation] = '1' or [das_other_vasculitis] = '1', 1, 0))								
38	[das_gottrons_table]	GOTTRON'S PAPULES If NO papules are present then score is "0" points, if any papules are present (mild, moderate or severe) then score is "1" point; range for this section is 0 to 1: (SCORE) {das_gottronspapules_score} {das_gottrons_score}		descriptive								
39	[das_gottronspapules_score]	GOTTRON'S PAPULES: If NO papules are present then score is "0" points, if any papules are present (mild, moderate or severe) then score is "1" point; range for this section is 0 to 1.		radio, Required <table><tr><td>0</td><td>0 - Absent</td></tr><tr><td>1</td><td>1 - Mild</td></tr><tr><td>2</td><td>2 - Moderate</td></tr><tr><td>3</td><td>3 - Severe</td></tr></table> Custom alignment: LV	0	0 - Absent	1	1 - Mild	2	2 - Moderate	3	3 - Severe
0	0 - Absent											
1	1 - Mild											
2	2 - Moderate											
3	3 - Severe											
40	[das_weakness_score]	DAS Weakness Score		calc Calculation: sum([das_neckflexor_weakness],								

				[das_abdominal_weakness], [das_upper_prox_weakness], [das_lower_prox_weakness], [das_gowers_sign], [das_abnormal_gait], [das_swallowing_difficulty], [das_nasal_speech])
	41	[das_muscle_score]	Combined Raw Score of Weakness and Functional Status	calc Calculation: sum ([das_func_status_score], [das_weakness_score]) Field Annotation: @HIDDEN
	42	[das_muscle_potential]	DAS Muscle Potential	calc Calculation: sum (if ([das_func_status_score] = " , 3), if ([das_neckflexor_weakness] = " , 1), if ([das_abdominal_weakness] = " , 1), if ([das_upper_prox_weakness] = " , 1), if ([das_lower_prox_weakness] = " , 1), if ([das_gowers_sign] = " , 1), if ([das_abnormal_gait] = " , 1), if ([das_swallowing_difficulty] = " , 1), if ([das_nasal_speech] = " , 1)) Field Annotation: @HIDDEN
	43	[das_muscle_percent_score]	DAS Muscle Percent Score	calc Calculation: round([das_muscle_score]/[das_muscle_potential],2) Field Annotation: @HIDDEN
	44	[das_muscle_adj_score]	DAS MUSCLE SCORE (0-11):	calc Calculation: round(((das_muscle_percent_score]*11),1)
	45	[das_gottrons_score]	DAS Gottron's Score	calc Calculation: if([das_gottronspapules_score]='0',0, if([das_gottronspapules_score]= '1', 1, if([das_gottronspapules_score]= '2', 1, if([das_gottronspapules_score]= '3', 1, "))))
	46	[das_skin_score]	Skin Involvement Raw Score	calc Calculation: sum (if([das_skin_type_score]='-9',0, [das_skin_type_score]), [das_skin_distrib_score], [das_vasculitis_score], [das_gottrons_score]) Field Annotation: @HIDDEN

47	[das_skin_potential]	DAS Skin Potential	calc Calculation: sum(if([das_skin_type_score]='-9' or [das_skin_type_score]='',4), if([das_skin_distrib_score]='',3), if([das_vasculitis_score]='',1), if([das_gottrons_score]='',1)) Field Annotation: @HIDDEN
48	[das_skin_percent_score]	DAS Skin Percent Score	calc Calculation: round([das_skin_score]/[das_skin_potential],3) Field Annotation: @HIDDEN
49	[das_skin_adj_score]	DAS SKIN SCORE (0-9):	calc Calculation: round([das_skin_percent_score]*9, 0)
50	[das_total_score]	DAS Total Raw Score	calc Calculation: sum([das_muscle_score], [das_skin_score]) Field Annotation: @HIDDEN
51	[das_total_score_potential]	DAS Total Score Potential	calc Calculation: sum([das_skin_potential], [das_muscle_potential]) Field Annotation: @HIDDEN
52	[das_total_percent_score]	DAS Total Percent Score	calc Calculation: round(((sum([das_skin_score], [das_muscle_score])) / (sum([das_skin_potential], [das_muscle_potential]))),3) Field Annotation: @HIDDEN
53	[das_total_adj_score]	DAS TOTAL SCORE (0-20):	calc Calculation: round([das_total_percent_score]*20,1)
54	[das_ref]	References: Bode RK, Klein-Gitelman MS, Miller ML, Lechman TS, Pachman LM. Disease Activity Score for children with juvenile dermatomyositis: reliability and validity evidence. Arthritis Rheum (Arthritis Care Research), 2003; 49: 7 - 15 Smith RL, Sundberg J, Shamtyah E, Dyer A, Pachman LM. Skin involvement in juvenile dermatomyositis is associated with loss of end row nailfold capillary loops. J Rheumatology, 2004; 31: 1644-9	descriptive

	55	[disease_activity_score_data_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									