Imaging DMD Data Dictionary

Demographics

Field Name	Description	Data Type	Precision / Possible Values
height_cm	Height	Integer	XXX cm
weight_kg	Weight	Decimal	XX.X kg
race	Self-reported race	Character	Various
ethnicity	Self-reported ethnicity	Character	Various: Hispanic/Latino, Not Hispanic/Latino
tanner_stage	Self-reported Tanner stage	Character	Various: Score from 1-5
steroid_status	Self-reported corticosteroid status	Character	On, Off, Unknown
ambulatory_status	ambulatory status at a given visit (based on 10m walk/run qualitative grade OR Brooke score OR functional evaluator's assessment of ambulatory status, in that order)	Character	Ambulatory, Nonambulatory
corticosteroid_initiation_age	Patient-reported age at the time of corticosteroid treatment initiation	Integer	XX years
steroid_name	Name of corticosteroid medication reported.	Character	Various, including <empty> if **steroid_status** is Unknown or Off
mutation_type_general	Type of genetic mutation	Character	Various
mutation_designation	Designation of genetic mutation	Character	Various
PSC_MIS_intron	PSC / MIS Intron information	Character	Various
LTBP4_genotype	Genotypes for LTBP4 rs2302729, rs1131620, rs1051303, and rs10880.	Character	Various
SPP1_genotype	Genotype for SPP1 rs28357094	Character	Various: TT, TG, or GG

MRI T2 Measures

Field Name	Description	Data Type	Precision / Possible Values
MRI_T2_mean_MG	Medial gastrocnemius global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_PER	Peroneal global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_SOL	Soleus global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_TA	Tibialis anterior global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_TP	Tibialis posterior global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_BFLH	Biceps femoris long head global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_GRA	Gracilis global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_VL	Vastus lateralis global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_DEL	Deltoid global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_BB	Biceps brachii global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_TB	Triceps brachii global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_AF	Anterior forearm global T_2 by MR Imaging	Decimal	X.X milliseconds
MRI_T2_mean_PF	Posterior forearm global T_2 by MR Imaging	Decimal	X.X milliseconds

Dixon FF Measures

Field Name	Description	Data Type	Precision / Possible Values
Dixon_FF_MG	Medial gastrocnemius FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_PER	Peroneal FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_SOL	Soleus FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_TA	Tibialis anterior FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_TP	Tibialis posterior FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_BFLH	Biceps femoris long head FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_GRA	Gracilis FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_VL	Vastus lateralis FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_DEL	Deltoid FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_BB	Biceps brachii FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_TB	Triceps brachii FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_AF	Anterior forearm FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)
Dixon_FF_PF	Posterior forearm FF by 8-pt Dixon MR Imaging	Decimal	0.XX (fat/fat+water)

MRS Measures

Field Name	Description	Data Type	Precision / Possible Values
MRS_FF_SOL	Soleus fat fraction by ^{1}H Spectroscopy	Decimal	0.XX (fat/fat+water)
MRS_T2_SOL	Soleus water T_2 by ^{1}H Spectroscopy	Decimal	X.X milliseconds
MRS_FF_VL	Vastus Lateralis fat fraction by ^{1}H Spectroscopy	Decimal	0.XX (fat/fat+water)
MRS_T2_VL	Vastus Lateralis water T_2 by ^{1}H Spectroscopy	Decimal	X.X milliseconds
MRS_FF_DEL	Deltoid fat fraction by ^{1}H Spectroscopy	Decimal	0.XX (fat/fat+water)
MRS_T2_DEL	Deltoid water T_2 by ^{1}H Spectroscopy	Decimal	X.X milliseconds
MRS_FF_BB	Biceps brachii fat fraction by ^{1}H Spectroscopy	Decimal	0.XX (fat/fat+water)
MRS_T2_BB	Biceps brachii water T_2 by ^{1}H Spectroscopy	Decimal	X.X milliseconds

Strength, Function, and Range of Motion Measures

Field Name	Description	Data Type	Precision / Possible Values
CFS_fastest_sec	Fastest time to climb 4 stairs.	Decimal	X.X seconds
SMWT_distance_total	6 minute walk total distance	Integer	XXX meters
STS_fastest_sec	Fastest time to rise from supine	Decimal	X.X seconds
TMW_fastest_sec	Fastest time to walk 10 meters	Decimal	X.X seconds
fsc_grade	Four stair climb qualitative grade	Character	Various: grade from 1-6
fsd_grade	Four stair decent qualitative grade	Character	Various: grade from 1-6
sts_grades	Supine to stand qualitative grade	Character	Various: grade from 1-6
tmw_grades	10 meter walk qualitative grade	Character	Various: grade from 1-6
brooke_score_LE	Modified Brooke lower extremity scale score	Character	Various: score from 1-10
brooke_score_UE	Brooke Upper Extremity Scale	Character	Various: score from 1-6
ke_peak_torque	Knee Exterior calculated peak torque from isometric dynamometry	Decimal	XX.X numeric value
pf_peak_torque	Plantar Flexor calculated peak torque from isometric dynamometry	Decimal	XX.X numeric value
ankle_rom	Ankle dorsiflexion passive range of motion	Integer	XX degrees
hip_rom	Hip extension passive range of motion	Integer	XX degrees
knee_rom	Knee extension passive range of motion	Integer	XX degrees
rom_elbow_extension	Elbow extension passive range of motion	Integer	XX degrees
rom_wrist_extension	Wrist extension passive range of motion	Integer	XX degrees
rom_wrist_supination	Wrist supination passive range of motion	Integer	XX degrees
hhm_extension	Elbow extension force by handheld myometry (best trial)	Decimal	X.X kg
hhm_flexion	Elbow flexion force by handheld myometry (best trial)	Decimal	X.X kg
hhm_shoulder	Shoulder abduction force by handheld myometry (best trial)	Decimal	X.X kg
myogrip	Grip strength by Myogrip myotool (best trial)	Decimal	XX.XX kg
myopinch	Pinch strength by Myopinch myotool (best trial)	Decimal	XX.XXX kg
nsaa_1_stand	NSAA item 1 score – Standing	Integer	X
nsaa_2_walk	NSAA item 2 score – Walk	Integer	X
nsaa_3_chair	NSAA item 3 score – Stand up from chair	Integer	X
nsaa_4_oneleg_right	NSAA item 4 score – Stand on one leg right	Integer	X
nsaa_5_oneleg_left	NSAA item 5 score – Stand on one leg left	Integer	X
nsaa_6_climb_right	NSAA item 6 score – Climb box step right	Integer	X
nsaa_7_descend_right	NSAA item 7 score – Descend box step right	Integer	X
nsaa_8_climb_left	NSAA item 8 score – Climb box step left	Integer	X
nsaa_9_descend_left	NSAA item 9 score – Descend box step left	Integer	X
nsaa_10_head	NSAA item 10 score – Lifts head from supine	Integer	X
nsaa_11_sitting	NSAA item 11 score – Gets to sitting	Integer	X
nsaa_12_rise	NSAA item 12 score – Rise from floor	Integer	X
nsaa_12_rise_time	NSAA item 12 time – Rise from floor time	Decimal	XX.XX seconds
nsaa_13_heels	NSAA item 13 score – Stands on heels	Integer	X
nsaa_14_jump	NSAA item 14 score – Jump	Integer	X

Strength, Function, and Range of Motion Measures Continued

nsaa_15_hop_right	NSAA item 15 score – Hop right	Integer	X
nsaa_16_hop_left	NSAA item 16 score – Hop left	Integer	X
nsaa_17_run	NSAA item 17 score – Run (10 meters)	Integer	X
nsaa_17_run_time	NSAA item 17 time – Run (10 meters) time	Decimal	XX.XX seconds
nsaa_total	NSAA item total score out of 34	Integer	X
pul_entry_item	PUL 2.0 entry item score	Integer	X
pul_high_raise_arms	PUL 2.0 item 1 score – Shoulder abduction arms above head	Integer	X
pul_high_shoulder_abduction	PUL 2.0 item 2 score – Raise both arms to shoulder height	Integer	X
pul_high_flex_no_weights	PUL 2.0 item 3score – Shoulder flexion to shoulder height (no weights)	Integer	X
pul_high_flex_500g	PUL 2.0 item 4 score – Shoulder flexion to shoulder height with 500g weight	Integer	X
pul_high_flex_above_500g	PUL 2.0 item 5 score – Shoulder flexion above shoulder with 500 g weight	Integer	X
pul_high_flex_above_1kg	PUL 2.0 item 6 score – Shoulder flexion above shoulder with 1 kg weight	Integer	X
pul_mid_hands_to_mouth	PUL 2.0 item 7 score – Hand(s) to mouth	Integer	X
pul_mid_hands_to_table	PUL 2.0 item 8 score – Hands to table from lap	Integer	X
pul_mid_move_100g	PUL 2.0 item 9 score – Move weight on table 100 g	Integer	X
pul_mid_move_500g	PUL 2.0 item 10 score – Move weight on table 500 g	Integer	X
pul_mid_move_1kg	PUL 2.0 item 11 score – Move weight on table 1 kg	Integer	X
pul_mid_lift_can_diag	PUL 2.0 item 12 score – Lift heavy can diagonally	Integer	X
pul_mid_stack_3_cans	PUL 2.0 item 13 score – Stack of three cans (heavy cans)	Integer	X
pul_mid_stack_5_cans	PUL 2.0 item 14 score – Stack of five cans (heavy cans)	Integer	X
pul_mid_remove_lid	PUL 2.0 item 15 score – Remove lid from container	Integer	X
pul_distal_tearing_paper	PUL 2.0 item 16 score – Tearing paper	Integer	X
pul_distal_tracing_path	PUL 2.0 item 17 score – Tracing a path	Integer	X
pul_distal_push_on_light	PUL 2.0 item 18 score – Push on light	Integer	X
pul_distal_supination	PUL 2.0 item 19 score – Supination	Integer	X
pul_distal_pick_coins	PUL 2.0 item 20 score – Pick up coins	Integer	X
pul_distal_place_finger	PUL 2.0 item 21 score – Placing finger on number diagram	Integer	X
pul_distal_pick_10g	PUL 2.0 item 22 score – Pick up 10 g weight finger pinch	Integer	X
pul_high_subtotal	PUL 2.0 sub score for the high level shoulder dimension - Items 1-6	Integer	XX
pul_mid_subtotal	PUL 2.0 sub score for the mid level elbow dimension - Items 7-16	Integer	XX
pul_distal_subtotal	PUL 2.0 sub score for the distal level wrist and hand dimension - Items 17-22	Integer	XX
pul_total	PUL 2.0 total score out of 42	Integer	XX