

RAPPORT

Sujet:02.06.01

Organisme: BEaCHiLD

DATE DE NAISSANCE

avr-16

ÂGE

43 mois

GENRE

F

ATTEINTE

Unilatérale

CÔTÉ NON DOMINANT

D

ETIOLOGIE

AVC

MINI MACS

1

SCORE GMFCS

I

Rapport sur les données

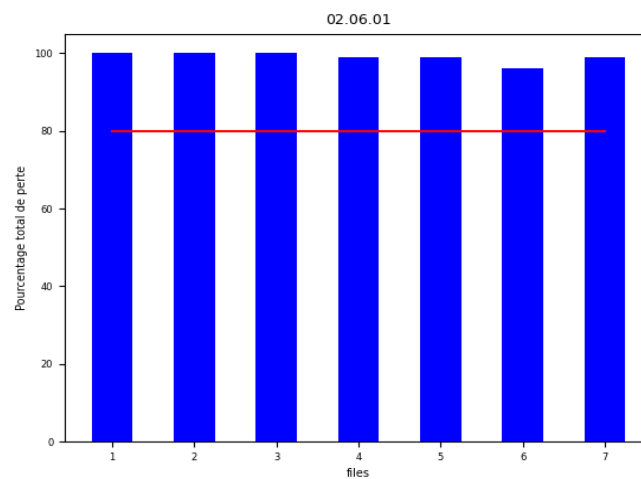
J0

	Missing from c3d	Flash	Not_reconstructed
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Reach60-08_EM_SR.c3d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

J90

	Missing from c3d	Flash	Not_reconstructed
Reach60-01_EM.c3d	<input type="checkbox"/>		<input type="checkbox"/>
Reach60-02.c3d	<input type="checkbox"/>	['H_styloide_radial']	<input type="checkbox"/>
Reach60-03.c3d	<input type="checkbox"/>	['H_epicondyle_med']	<input type="checkbox"/>
Reach60-04.c3d	<input type="checkbox"/>	['H_epicondyle_med', 'H_styloide_radial']	<input type="checkbox"/>
Reach60-05_EM.c3d	<input type="checkbox"/>	['H_styloide_radial']	<input type="checkbox"/>

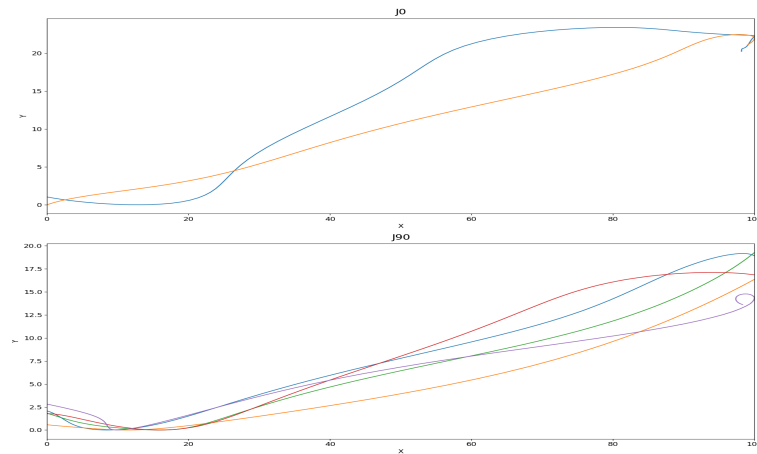
Pourcentage de perte totale



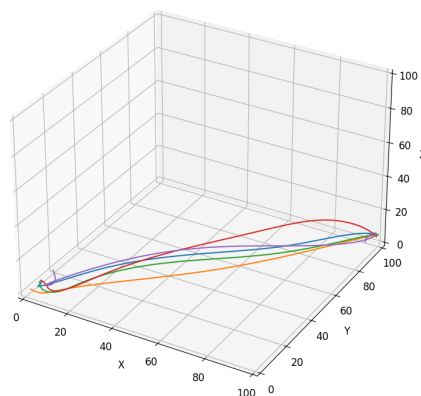
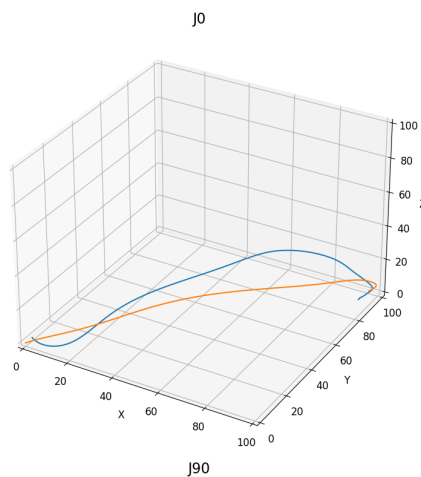
Calcul déterminé après interpolation sur VICON NEXUS
Pourcentage de perte de l'ensemble des marqueurs

Présentation des essais de la tâche Reach Buzzer

Profile des trajectoires en 2D



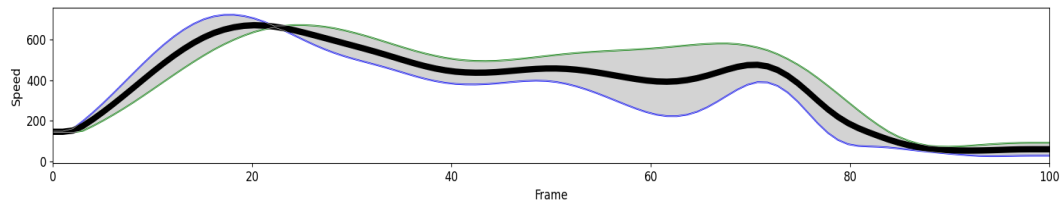
Profile des trajectoires en 3D



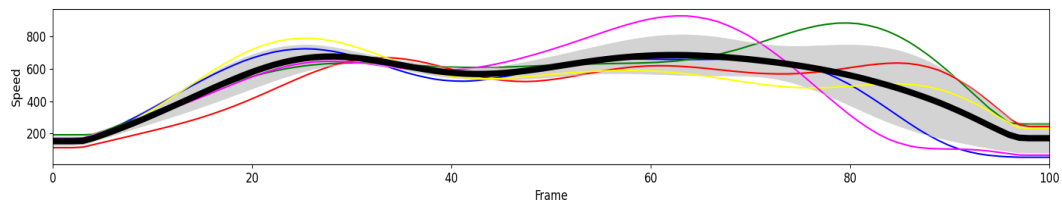
Paramètres spatio-temporels

Norme de la vitesse

Speed J0

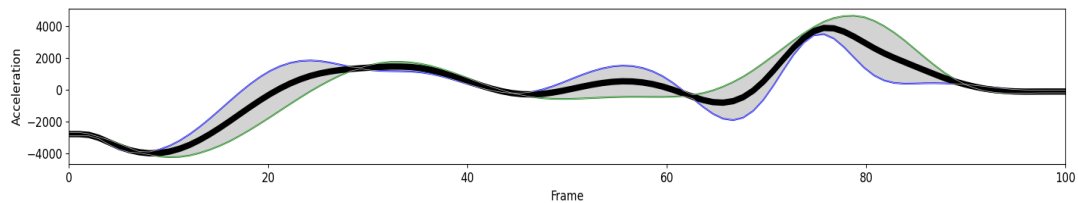


Speed J90

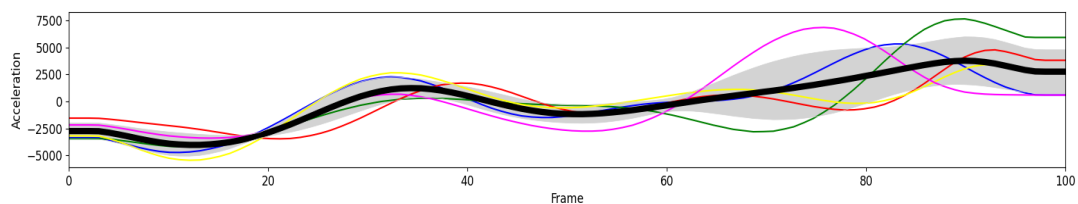


Norme de l'acceleration

Acceleration J0



Acceleration J90





Valeurs des paramètres pour chaque fichier

J0

Files	Duration (s)	Time to peak velocity (%)	Mean Velocity (mm/s)	Peak of Velocity (mm/s)	Number of movement unit	Transport Unit	RV	Jerk	Log_jerk	Sparc	Np0	Index of curvature
Reach60_07	1.20	0.17	333.17	729.82	5.00	0.17	0.46	-6453.59	-8.77	-1.71	9.00	2.37
Reach60_08	0.75	0.24	420.58	679.02	3.00	0.23	0.62	-1483.22	-7.30	-1.70	5.00	1.71
Lower Limit	0.53	0.14	289.46	653.62	2.00	0.14	0.38	-8938.77	-9.51	-1.72	3.00	1.39
Upper Limit	1.42	0.27	464.29	755.22	6.00	0.26	0.70	1001.96	-6.57	-1.69	11.00	2.70

J90

Files	Duration (s)	Time to peak velocity (%)	Mean Velocity (mm/s)	Peak of Velocity (mm/s)	Number of movement unit	Transport Unit	RV	Jerk	Log_jerk	Sparc	Np0	Index of curvature
Reach60_01	0.69	0.25	482.54	734.96	3.00	0.23	0.66	-1489.41	-7.31	-1.78	5.00	1.81
Reach60_02	0.52	0.79	558.33	907.45	2.00	0.27	0.63	-2240.97	-7.71	-1.77	3.00	1.72
Reach60_03	0.73	0.33	487.93	678.84	3.00	0.32	0.72	-5561.08	-8.62	-1.89	5.00	1.74
Reach60_04	0.69	0.25	508.01	802.53	3.00	0.23	0.63	-2778.66	-7.93	-1.82	5.00	1.75
Reach60_05	0.70	0.63	498.74	939.11	3.00	0.26	0.53	-1200.55	-7.09	-1.63	5.00	1.77
Lower Limit	0.67	-0.33	457.80	476.23	3.00	0.18	0.58	-4712.55	-8.87	-1.89	5.00	1.70
Upper Limit	0.71	1.20	538.14	1166.18	3.00	0.33	0.70	444.47	-6.37	-1.70	5.00	1.81

Paramètres spatio-temporel

	J0	J90
Duration (s)	All trials [1.2, 0.75]	[0.69, 0.69, 0.7]
	Mean 0.97	0.69
	Std 0.22	0.00
Time to peak velocity (%)	All trials [0.175, 0.24]	[0.2463768115942029, 0.7884615384615384, 0.3287671232876712, 0.2463768115942029, 0.6285714285714286]
	Mean 0.21	0.45
	Std 0.03	0.22
Mean Velocity (mm/s)	All trials [333.0, 421.0]	[483.0, 488.0, 508.0, 499.0]
	Mean 377.00	494.50
	Std 44.00	9.71
Peak of Velocity (mm/s)	All trials [730.0, 679.0]	[735.0, 907.0, 679.0, 803.0, 939.0]
	Mean 704.50	812.60
	Std 25.50	98.84

Paramètres de qualité

Paramètres de fluidité

	J0 - Dom	J90 - Dom
Number of movement unit	All trials [5 3]	[3 3 3 3]
	Mean 4.00	3.00
	Std 1.00	0.00
Transport movement unit	All trials [0.17 0.23]	[0.23 0.27 0.32 0.23 0.26]
	Mean 0.20	0.26
	Std 0.03	0.03
RV	All trials [0.46 0.62]	[0.66 0.63 0.63]
	Mean 0.54	0.64
	Std 0.08	0.01
Jerk	All trials [-6453.59 -1483.22]	[-1489.41 -2240.97 -2778.66 -1200.55]
	Mean -3968.41	-1927.40
	Std 2485.18	621.11
Log_jerk	All trials [-8.77 -7.3]	[-7.31 -7.71 -8.62 -7.93 -7.09]
	Mean -8.04	-7.73
	Std 0.74	0.53
Sparc	All trials [-1.71 -1.7]	[-1.78 -1.77 -1.89 -1.82]
	Mean -1.71	-1.82
	Std 0.01	0.05
Np0	All trials [9 5]	[5 5 5 5]
	Mean 7.00	5.00
	Std 2.00	0.00

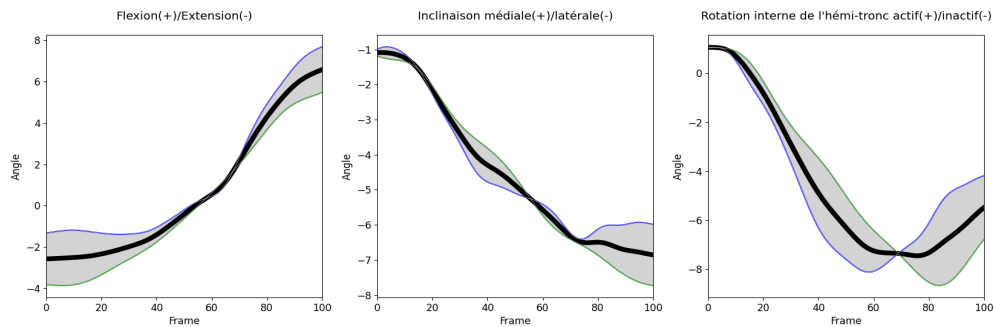
	J0	J90
ratio number of movement unit = 1	0.00	0.00

Paramètres de rectitude

	J0 - Dom	J90 - Dom
Index of curvature	All trials [2.37 1.71]	[1.72 1.74 1.75 1.77]
	Mean 2.04	1.75
	Std 0.33	0.02

Cinématique à J0

Thorax



Color Legend

Reach60_07.c3d blue

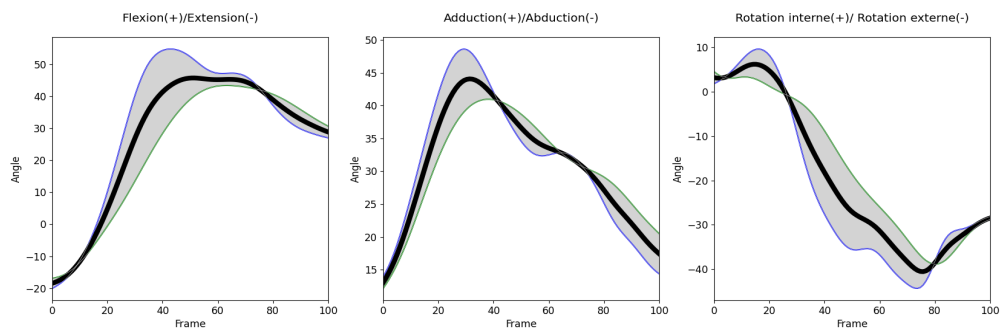
Reach60_08.c3d green

TFMD

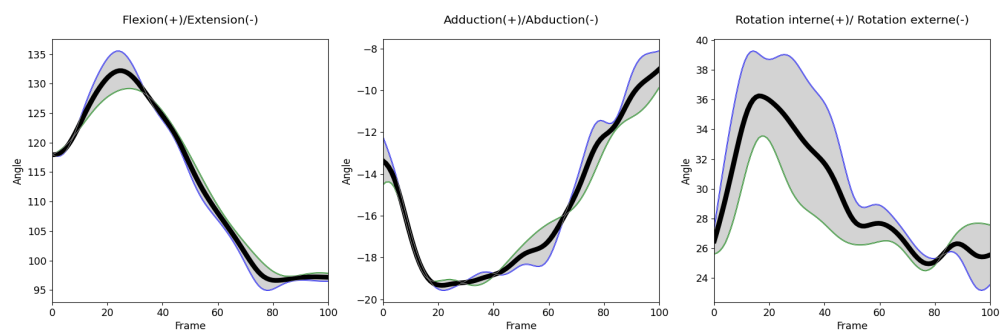
Reach60_07.c3d 0.67

Reach60_08.c3d -0.67

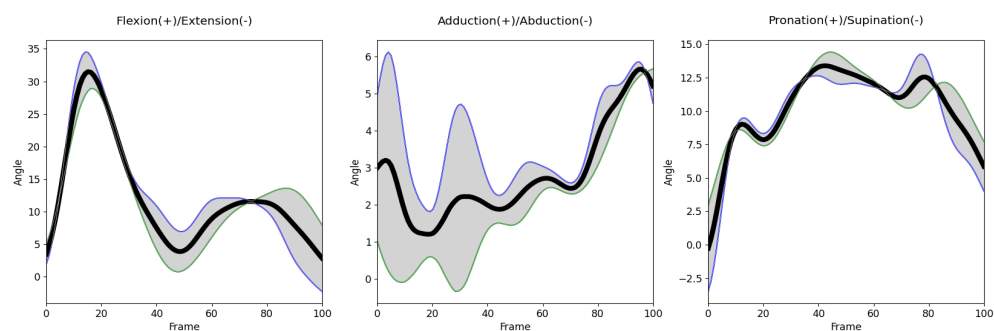
Shoulder



Elbow

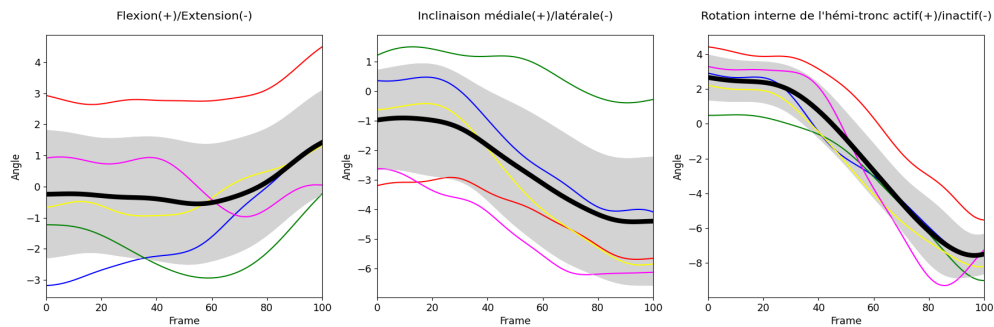


Wrist



Cinématique à J90

Thorax



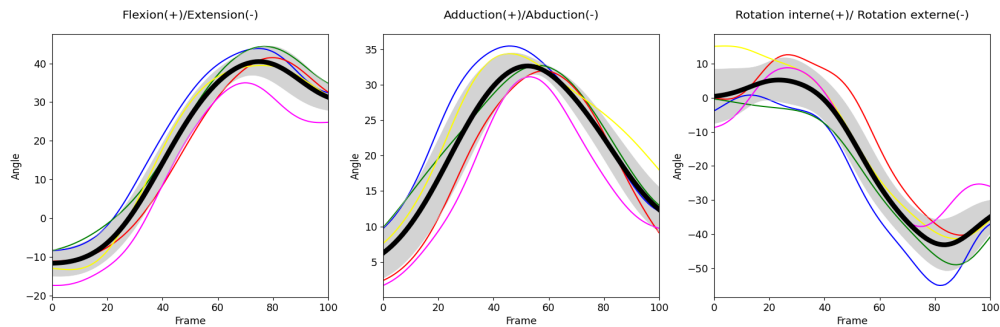
Color Legend

Reach60_01.c3d	blue
Reach60_02.c3d	green
Reach60_03.c3d	red
Reach60_04.c3d	yellow
Reach60_05.c3d	magenta

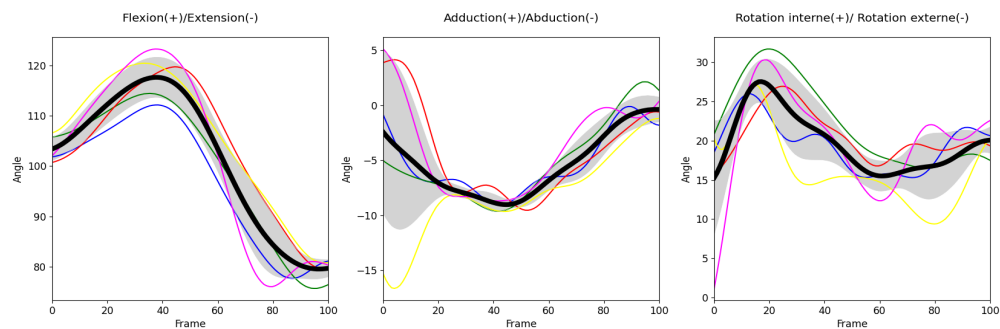
TFMD

Reach60_01.c3d	0.00
Reach60_02.c3d	-0.70
Reach60_03.c3d	-0.35
Reach60_04.c3d	0.80
Reach60_05.c3d	0.67

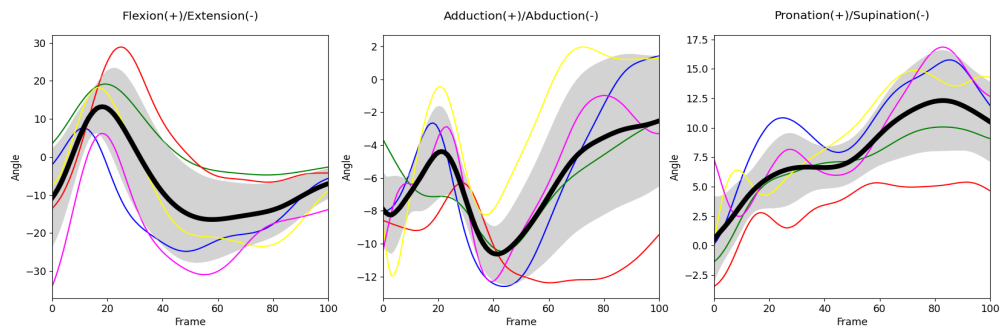
Shoulder



Elbow



Wrist



Paramètres cinématiques

Thorax

			J0	J90
Flex/ext	ROM	All trials	[9.07, 9.34]	[4.64, 2.71, 1.86, 2.26, 1.92]
		Mean	9.20534	2.677983
		Std	0.135564	1.028496
	MAX	All trials	[7.68, 5.47]	[1.46, -0.24, 4.5, 1.32, 0.95]
		Mean	6.574914	1.597455
		Std	1.101357	1.567109
	MIN	All trials	[-1.39, -3.87]	[-3.19, -2.94, 2.64, -0.94, -0.97]
		Mean	-2.630426	-1.080528
		Std	1.236921	2.086869
Inclinaison	ROM	All trials	[5.48, 6.54]	[4.55, 1.89, 2.77, 5.46, 3.58]
		Mean	6.013243	3.651505
		Std	0.528982	1.261095
	MAX	All trials	[-0.92, -1.19]	[0.47, 1.49, -2.92, -0.42, -2.63]
		Mean	-1.057437	-0.801415
		Std	0.132667	1.723448
	MIN	All trials	[-6.41, -7.73]	[-4.08, -0.4, -5.69, -5.88, -6.21]
		Mean	-7.070681	-4.45292
		Std	0.661649	2.155952
Rotations	ROM	All trials	[9.17, 9.74]	[10.45, 9.52, 9.95, 10.41, 12.58]
		Mean	9.456038	10.582516
		Std	0.28688	1.054569
	MAX	All trials	[1.05, 1.08]	[2.91, 0.51, 4.42, 2.2, 3.28]
		Mean	1.065018	2.664366
		Std	0.01301	1.29304
	MIN	All trials	[-8.12, -8.66]	[-7.54, -9.01, -5.53, -8.21, -9.3]
		Mean	-8.39102	-7.918149
		Std	0.27387	1.343229

Shoulder

J0

J90

Flex/ext	ROM	All trials	[74.86, 60.25]	[52.19, 52.72, 52.56, 52.71, 52.31]
		Mean	67.556555	52.4997
		Std	7.306993	0.212492
	MAX	All trials	[54.8, 43.4]	[43.87, 44.4, 41.49, 39.48, 35.0]
		Mean	49.101006	40.846641
		Std	5.701218	3.415216
	MIN	All trials	[-20.06, -16.85]	[-8.32, -8.32, -11.07, -13.24, -17.32]
		Mean	-18.455549	-11.653059
		Std	1.605776	3.381508
Add/Abd	ROM	All trials	[34.63, 28.81]	[25.7, 22.83, 29.54, 26.72, 29.4]
		Mean	31.720672	26.838865
		Std	2.910193	2.498953
	MAX	All trials	[48.62, 40.96]	[35.44, 32.72, 31.94, 34.36, 31.11]
		Mean	44.785168	33.113571
		Std	3.829899	1.584975
	MIN	All trials	[13.98, 12.14]	[9.74, 9.89, 2.4, 7.64, 1.7]
		Mean	13.064496	6.274706
		Std	0.919706	3.544898
Rotations	ROM	All trials	[54.0, 43.43]	[55.9, 48.68, 52.97, 56.57, 46.62]
		Mean	48.717727	52.147689
		Std	5.284547	3.922417
	MAX	All trials	[9.64, 4.53]	[0.83, -0.33, 12.66, 15.23, 8.85]
		Mean	7.086048	7.448387
		Std	2.555288	6.230892
	MIN	All trials	[-44.36, -38.9]	[-55.07, -49.01, -40.31, -41.34, -37.77]
		Mean	-41.63168	-44.699302
		Std	2.729259	6.39885

Elbow

J0

J90

Flex/ext	ROM	All trials	[40.59, 31.86]	[34.47, 38.74, 40.1, 39.66, 47.22]
		Mean	36.225815	40.038583
		Std	4.367531	4.106984
	MAX	All trials	[135.54, 129.18]	[112.15, 114.44, 119.72, 120.43, 123.26]
		Mean	132.357399	118.001224
		Std	3.17971	4.085611
	MIN	All trials	[94.94, 97.32]	[77.68, 75.7, 79.62, 80.77, 76.04]
		Mean	96.131584	77.96264
		Std	1.18782	1.976601
Add/Abd	ROM	All trials	[11.46, 9.46]	[8.97, 11.77, 13.68, 15.44, 13.8]
		Mean	10.456667	12.733126
		Std	0.999259	2.212005
	MAX	All trials	[-8.11, -9.88]	[-0.12, 2.12, 4.13, -1.2, 5.1]
		Mean	-8.995425	2.004881
		Std	0.881502	2.404635
	MIN	All trials	[-19.57, -19.33]	[-9.09, -9.65, -9.55, -16.65, -8.7]
		Mean	-19.452092	-10.728245
		Std	0.117757	2.977986
Rotations	ROM	All trials	[16.11, 9.06]	[10.7, 15.2, 11.22, 17.79, 29.17]
		Mean	12.584583	16.814313
		Std	3.529581	6.705537
	MAX	All trials	[39.27, 33.54]	[25.99, 31.69, 26.93, 27.16, 30.32]
		Mean	36.40802	28.419069
		Std	2.866119	2.191796
	MIN	All trials	[23.16, 24.49]	[15.29, 16.49, 15.71, 9.37, 1.15]
		Mean	23.823437	11.604756
		Std	0.663462	5.806151

Wrist

J0

J90

Flex/ext	ROM	All trials	[36.78, 28.16]	[32.42, 23.92, 42.43, 41.75, 40.22]
		Mean	32.472362	36.146618
		Std	4.308356	7.084614
	MAX	All trials	[34.52, 28.9]	[7.58, 19.18, 28.9, 18.23, 6.18]
		Mean	31.710742	16.01573
		Std	2.807412	8.352736
	MIN	All trials	[-2.26, 0.74]	[-24.83, -4.74, -13.53, -23.52, -34.04]
		Mean	-0.76162	-20.130888
		Std	1.500943	10.076531
Add/Abd	ROM	All trials	[4.3, 6.0]	[14.04, 7.87, 6.08, 13.95, 11.33]
		Mean	5.151498	10.653902
		Std	0.849811	3.207361
	MAX	All trials	[6.12, 5.67]	[1.44, -2.61, -6.3, 1.97, -0.99]
		Mean	5.895148	-1.299172
		Std	0.225301	2.999088
	MIN	All trials	[1.82, -0.33]	[-12.6, -10.48, -12.38, -11.99, -12.31]
		Mean	0.74365	-11.953074
		Std	1.075112	0.76137
Prono/Supi	ROM	All trials	[17.74, 11.45]	[15.64, 11.45, 8.84, 14.67, 14.38]
		Mean	14.597355	12.996759
		Std	3.146767	2.50351
	MAX	All trials	[14.25, 14.42]	[15.75, 10.06, 5.38, 14.87, 16.85]
		Mean	14.335278	12.58384
		Std	0.08414	4.283951
	MIN	All trials	[-3.49, 2.97]	[0.12, -1.38, -3.47, 0.2, 2.47]
		Mean	-0.262077	-0.412918
		Std	3.230907	1.960652

Duration/displacement kinematic

		J0	J90
dist_AP_CP3	All trials	[0.81, 0.74]	[0.79, 0.86, 0.82, 0.8, 0.83]
	Mean	0.775681	0.822364
	Std	0.03289	0.023345
distance_AP	All trials	[1.46, 1.06]	[1.05, 0.97, 1.14, 1.13, 1.14]
	Mean	1.263516	1.087279
	Std	0.200809	0.067229
distance_gravity	All trials	[134.52, 171.63]	[88.27, 41.79, 44.14, 86.94, 80.35]
	Mean	153.074192	68.300067
	Std	18.555898	20.870184
onset_synchrony	All trials	[-139, -36]	[-3, -14, -6, -46, -1]
	Mean	-87.5	-14.0
	Std	51.5	16.601205
onset_velocity_peak	All trials	[-150, -37]	[-39, -16, -43, -62, 9]
	Mean	-93.5	-30.2
	Std	56.5	24.45731
person_coeff	All trials	[0.9, 0.98]	[0.92, 0.87, 0.91, 0.93, 0.92]
	Mean	0.941688	0.910957
	Std	0.038549	0.022815
coeff_corr	All trials	[0.95, 1.0]	[0.98, 0.96, 0.97, 0.98, 0.96]
	Mean	0.975013	0.969172
	Std	0.020974	0.009738
lag_time	All trials	[-1.0, -1.5]	[-6.5, -3.0, -3.5, -3.5, -3.0]
	Mean	-1.25	-3.9
	Std	0.25	1.319091

Coefficient de variation

Paramètres spt/qualité

	J0 - Dom	J90 - Dom
Duration	0.23	0.11
Time to peak	0.16	0.49
Mean_speed	0.12	0.06
Velocity Peak	0.04	0.12
Number of movement unit	0.25	0.14
Transport movement unit	0.15	0.12
RV	0.15	0.10
Jerk	-0.63	-0.59
Log_jerk	-0.09	-0.07
Sparc	-0.00	-0.05
Np0	0.29	0.17
Curvature	0.16	0.02

Paramètres de cinématique

Trunk

J0 - Dom

J90 - Dom

Flex/ext	ROM	0.01	0.38
	MAX	0.17	0.98
	MIN	-0.47	-1.93
Inclinaison	ROM	0.09	0.35
	MAX	-0.13	-2.15
	MIN	-0.09	-0.48
Rotations	ROM	0.03	0.10
	MAX	0.01	0.49
	MIN	-0.03	-0.17

Shoulder

J0 - Dom

J90 - Dom

Flex/ext	ROM	0.11	0.00
	MAX	0.12	0.08
	MIN	-0.09	-0.29
Add/Abd	ROM	0.09	0.09
	MAX	0.09	0.05
	MIN	0.07	0.56
Rotations	ROM	0.11	0.08
	MAX	0.36	0.84
	MIN	-0.07	-0.14

Elbow

J0 - Dom

J90 - Dom

Flex/ext	ROM	0.12	0.10
	MAX	0.02	0.03
	MIN	0.01	0.03
Add/Abd	ROM	0.10	0.17
	MAX	-0.10	1.20
	MIN	-0.01	-0.28
Rotations	ROM	0.28	0.40
	MAX	0.08	0.08
	MIN	0.03	0.50

Wrist

J0 - Dom

J90 - Dom

Flex/ext	ROM	0.13	0.20
	MAX	0.09	0.52
	MIN	-1.97	-0.50
Add/Abd	ROM	0.16	0.30
	MAX	0.04	-2.31
	MIN	1.45	-0.06
Prono/Supi	ROM	0.22	0.19
	MAX	0.01	0.34
	MIN	-12.33	-4.75

Duration/Displacement kinematic

	J0 - Dom	J90 - Dom
dist_AP_CP3	0.04	0.03
distance_AP	0.16	0.06
distance_gravity	0.12	0.31
onset_synchrony	-0.59	-1.19
onset_velocity_peak	-0.60	-0.81
pearson_coeff	0.04	0.03
coeff_corr	0.02	0.01
lag_time	-0.20	-0.34