## DASELINE® EVALUATION INSTRUMENTS

## **3-PIECE HAND EVALUATION SET**





Authorized CE representative: RMS UK Ltd.
28 Trinity Road

Nailsea, Somerset BS48 4NU (UK)

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## 3-piece hand evaluation set

Hydraulic hand dynamometer - The hand dynamometer can be used to measure grip strength. It is calibrated in pounds and kilograms

The grip handle is adjustable to accommodate various size hands. Always use the same grip setting and dynamometer when evaluating a specific subject for hand trauma or disease.

Set the handle to the desired position. Have subject hold the dynamometer in a comfortable position. The shoulder should be adducted and neutrally rotated, the elbow flexed to 90 degrees, and the forearm and wrist should be in a neutral position. Have the subject squeeze the handle using his/her maximum effort. The red maximum pointer will remain at the subject's maximum reading until it is reset. The red maximum pointer must be reset before each grip test. Rotate the small knurled knob on top of the dial indicator in a counterclockwise direction until it rests against the black pointer at the zero marking. Each grip test should be repeated three times and the average result should be used.

Grip strength varies depending upon the size of the object being grasped. The adjustable handle allows for quantification of grip strength for different sized objects.

To determine whether a subject is exerting maximum effort use the following protocol:

- Take readings with adjustable handle in all five positions
- Test the normal hand and then the injured hand
- Repeat the test after five minutes

If maximum effort was exerted there should be approximately a 10% variation in the two sets of test results.

Hydraulic Pinch Gauge - The finger pinch gauge can be used to measure pinch strength. It is calibrated in pounds and kilograms of

Apply pinch force at the pinch groove while holding the pinch gauge between your thumb and finger(s). When force is applied further toward the tip the reading will be slightly higher. When force is applied further toward the rear the reading will be slightly lower.

The gauge must be "zeroed" before each pinch test. Grasp the knurled ring of the dial indicator and rotate it until the zero on the dial indicator is directly under the black pointer.

The red maximum pointer must be reset before each pinch test. Rotate the small knurled knob on top of the dial indicator in a counterclockwise direction until it rests against the black pointer at the zero marking. The red maximum pointer will remain at the subject's maximum reading until it is reset.

NORMS FOR ADULT PINCH STRENGTH Key Pinch strength performance of all subjects (lbs)

- Use the pinch gauge to perform the three basic pinch tests:
- Tip Pinch thumb tip to index fingertip
   Key Pinch thumb pad to lateral aspect of middle phalanx of index finger
   Palmer Pinch thumb pad to pads of the index and middle fingers
- NORMS FOR ADULT GRIP STRENGTH performance of all subjects (lbs)

	NORMS FOR ADCET GRIT STRENGTH performance of an adojecta (188)							men women							
age	hand	men mean	SD	low-high	women mean	SD	low-high	age	hand	mean	SD	low-high	mean	SD	low-high
20-24	dominant	121.0	20.6	91-167	70.4	14.5	46-95	20-24	dominant	26.0	3.5	21-34	17.6	2.0	14-23
20 21	non-dominant	104.5	21.8	71-150	61.0	13.1	33-88	2021	non-dominant	24.8	3.4	19-31	16.2	2.1	13-23
25-29	dominant	120.8	23.0	78-158	74.5	13.9	48-97	25-29	dominant	26.7	4.9	19-41	17.7	2.1	14-22
20 20	non-dominant	110.5	16.2	77-139	63.5	12.2	48-97	20 20	non-dominant	25.0	4.7	19-39	16.6	2.1	13-22
30-34	dominant	121.8	22.4	70-170	78.7	19.2	46-137	30-34	dominant	26.4	4.8	20-36	18.7	3.0	13-25
30 34	non-dominant	110.4	21.7	64-145	68.0	17.7	36-115	30 34	non-dominant	26.2	5.1	17-36	17.8	3.6	12-26
35-39	dominant	119.7	24.0	76-176	74.1	10.8	50-99	35-39	dominant	26.1	3.2	21-32	16.6	2.0	12-21
33-33	non-dominant	112.9	21.7	73-170	66.3	11.7	49-91	33-33	non-dominant	25.6	3.9	18-32	16.0	2.7	12-21
40-44	dominant	116.8	20.7	84-165	70.4	13.5	38-103	40-44	dominant	25.6	2.6	21-31	16.7	3.1	10-24
40-44	non-dominant	112.8	18.7	73-157	62.3	13.8	35-94	40-44	non-dominant	25.1	4.0	19-31	15.8	3.1	8-22
45-49	dominant	109.9	23.0	65-155	62.2	15.1	39-100	45-49	dominant	25.8	3.9	19-35	17.6	3.2	13-24
40-43		100.8	22.8	58-160	56.0	12.7	37-83	40-40		24.8	4.4	18-42	16.6	2.9	12-24
50-54	non-dominant dominant	113.6	18.1	79-151	65.8	11.6	38-87	50-54	non-dominant dominant	26.7	4.4	20-34	16.7	2.5	12-24
50-54								50-54							
55.50	non-dominant	101.9	17.0	70-143	57.3	10.7	35-76	55.50	non-dominant	26.1	4.2	20-37	16.1	2.7	12-22
55-59	dominant	101.1	26.7	59-154	57.3	12.5	33-86	55-59	dominant	24.2	4.2	18-34	15.7	2.5	11-21
	non-dominant	83.2	23.4	43-128	47.3	11.9	31-76		non-dominant	23.0	4.7	13-31	14.7	2.2	12-19
60-64	dominant	89.7	20.4	51-137	55.1	10.1	37-77	60-64	dominant	23.2	5.4	14-37	15.5	2.7	10-20
	non-dominant	76.8	20.3	27-116	45.7	10.1	29-66		non-dominant	22.2	4.1	16-33	14.1	2.5	10-19
65-69	dominant	91.1	20.6	56-131	49.6	9.7	35-74	65-69	dominant	23.4	3.9	17-32	15.0	2.6	10-21
	non-dominant	76.8	19.8	43-117	41.0	8.2	29-63		non-dominant	22.0	3.6	17-28	14.3	2.8	10-20
70-75	dominant	75.3	21.5	32-108	49.6	11.7	33-78	70-75	dominant	19.3	2.4	16-25	14.5	2.9	8-22
	non-dominant	64.8	18.1	32-93	41.5	10.2	23-67		non-dominant	19.2	3.0	13-28	13.8	3.0	9-22
75+	dominant	65.7	21.1	40-135	42.6	11.0	25-65	75+	dominant	20.5	4.6	9-31	12.6	2.3	8-17
	non-dominant	55.0	17.0	31-119	37.6	8.9	24-61		non-dominant	19.1	3.0	13-24	11.4	2.6	7-16
ALL	dominant	104.3	28.3	32-176	62.8	17.0	25-137	ALL	dominant	24.5	4.6	9-41	16.2	3.0	8-25
	non-dominant	93.1	27.6	27-160	53.9	15.7	23-115		non-dominant	23.6	4.6	11-42	15.3	3.1	7-26
NORMS	FOR ADULT P	INCH STR	ENCTH.	Tin Pinch stren	nth nerforma	nce of all	subjects (lbs)	NORMS	FOR ADULT P	NCH STRI	NCTH P	almer Pinch st	renath nerfor	nance of al	I subjects (the
		men			women		, (,			men			women		
age	hand	mean	SD	low-high	mean	SD	low-high	age	hand	mean	SD	low-high	mean	SD	low-high
20-24	dominant	18.0	3.0	11-23	11.1	2.1	8-16	20-24	dominant	26.6	5.3	18-45	17.2	2.3	14-23
	non-dominant	17.0	2.3	12-33	10.5	1.7	8-14		non-dominant	25.7	5.8	15-42	16.3	2.8	11-24
25-29	dominant	18.3	4.4	10-34	11.9	1.8	8-16	25-29	dominant	26.0	4.3	19-35	17.7	3.2	13-29
	non-dominant	17.5	5.2	12-36	11.3	1.8	9-18		non-dominant	25.1	4.2	19-36	17.0	3.0	13-26
30-34	dominant														
		17.4	6.7	12-25	12.6	3.0	8-20	30-34	dominant	24.7	4.7	16-34	19.3	5.0	12-34
	non-dominant	17.6	6.7 4.8	10-27	11.7	2.8	7-17		dominant non-dominant	25.4	5.7	15-37	18.1		12-32
35-39	dominant			10-27 12-27		2.8		30-34 35-39		25.4 26.2	5.7 4.1		18.1 17.5	5.0	12-32 13-29
		17.6 18.0 17.7	4.8 3.6 3.8	10-27 12-27 10-24	11.7 11.6 11.9	2.8 2.5 2.4	7-17 8-19 8-16	35-39	non-dominant	25.4 26.2 25.9	5.7 4.1 5.4	15-37 19-36 14-40	18.1 17.5 17.1	5.0 4.8 4.2 3.4	12-32 13-29 12-24
35-39 40-44	dominant	17.6 18.0 17.7 17.8	4.8 3.6 3.8 4.0	10-27 12-27 10-24 11-25	11.7 11.6 11.9 11.5	2.8 2.5 2.4 2.7	7-17 8-19 8-16 5-15		non-dominant dominant	25.4 26.2 25.9 24.5	5.7 4.1 5.4 4.3	15-37 19-36 14-40 17-37	18.1 17.5 17.1 17.0	5.0 4.8 4.2 3.4 3.1	12-32 13-29 12-24 10-23
	dominant non-dominant	17.6 18.0 17.7	4.8 3.6 3.8	10-27 12-27 10-24	11.7 11.6 11.9	2.8 2.5 2.4	7-17 8-19 8-16	35-39	non-dominant dominant non-dominant	25.4 26.2 25.9	5.7 4.1 5.4	15-37 19-36 14-40	18.1 17.5 17.1	5.0 4.8 4.2 3.4	12-32 13-29 12-24
	dominant non-dominant dominant	17.6 18.0 17.7 17.8	4.8 3.6 3.8 4.0	10-27 12-27 10-24 11-25	11.7 11.6 11.9 11.5	2.8 2.5 2.4 2.7	7-17 8-19 8-16 5-15	35-39	non-dominant dominant non-dominant dominant	25.4 26.2 25.9 24.5	5.7 4.1 5.4 4.3	15-37 19-36 14-40 17-37	18.1 17.5 17.1 17.0	5.0 4.8 4.2 3.4 3.1	12-32 13-29 12-24 10-23
40-44	dominant non-dominant dominant non-dominant	17.6 18.0 17.7 17.8 17.7	4.8 3.6 3.8 4.0 3.5	10-27 12-27 10-24 11-25 12-25	11.7 11.6 11.9 11.5 11.1	2.8 2.5 2.4 2.7 3.0	7-17 8-19 8-16 5-15 6-17	35-39 40-44	non-dominant dominant non-dominant dominant non-dominant	25.4 26.2 25.9 24.5 24.8	5.7 4.1 5.4 4.3 4.9	15-37 19-36 14-40 17-37 15-37	18.1 17.5 17.1 17.0 16.6	5.0 4.8 4.2 3.4 3.1 3.5	12-32 13-29 12-24 10-23 14-25
40-44	dominant non-dominant dominant non-dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7	4.8 3.6 3.8 4.0 3.5 4.9	10-27 12-27 10-24 11-25 12-25 12-30	11.7 11.6 11.9 11.5 11.1 13.2	2.8 2.5 2.4 2.7 3.0 3.0	7-17 8-19 8-16 5-15 6-17 9-19	35-39 40-44	non-dominant dominant non-dominant dominant non-dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0	5.7 4.1 5.4 4.3 4.9 3.3	15-37 19-36 14-40 17-37 15-37 19-33	18.1 17.5 17.1 17.0 16.6 17.9	5.0 4.8 4.2 3.4 3.1 3.5 3.0	12-32 13-29 12-24 10-23 14-25 12-27
40-44 45-49	dominant non-dominant dominant non-dominant dominant non-dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6	4.8 3.6 3.8 4.0 3.5 4.9 4.1	10-27 12-27 10-24 11-25 12-25 12-30 12-28	11.7 11.6 11.9 11.5 11.1 13.2 12.1	2.8 2.5 2.4 2.7 3.0 3.0 2.7	7-17 8-19 8-16 5-15 6-17 9-19 7-18	35-39 40-44 45-49	non-dominant dominant non-dominant dominant non-dominant dominant non-dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7	5.7 4.1 5.4 4.3 4.9 3.3 3.8	15-37 19-36 14-40 17-37 15-37 19-33 8-33	18.1 17.5 17.1 17.0 16.6 17.9	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8	12-32 13-29 12-24 10-23 14-25 12-27 12-24
40-44 45-49	dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant non-dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16	35-39 40-44 45-49	non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant non-dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36	18.1 17.5 17.1 17.0 16.6 17.9 17.5	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23
40-44 45-49 50-54	dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16 9-16	35-39 40-44 45-49 50-54	non-dominant dominant non-dominant dominant non-dominant dominant non-dominant non-dominant dominant dominant dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-34	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22
40-44 45-49 50-54	dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant non-dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.3	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16	35-39 40-44 45-49 50-54	non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant non-dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.8	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26
40-44 45-49 50-54 55-59	dominant non-dominant dominant dominant dominant non-dominant dominant dominant dominant non-dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.3 3.7	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7 1.4	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16 9-16 8-13	35-39 40-44 45-49 50-54 55-59	non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant non-dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.3	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.8 4.5	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-34 12-25	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 3.0	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21
40-44 45-49 50-54 55-59	dominant non-dominant dominant dominant dominant dominant non-dominant dominant non-dominant non-dominant dominant dominant dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.3 3.7	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26 9-22	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7 10.4	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7 1.4	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16 9-16 8-13 7-17	35-39 40-44 45-49 50-54 55-59	non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant non-dominant dominant dominant non-dominant dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.3	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.8 4.5	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-34 12-25 16-28	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 3.0 3.1	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21 10-20
40-44 45-49 50-54 55-59 60-64	dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant non-dominant dominant dominant non-dominant non-dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0 15.8	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.7 3.7 3.9	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26 9-22 9-23	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7 10.4 10.1 9.9	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7 1.4 2.1 2.0	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-16 9-16 8-13 7-17 6-15	35-39 40-44 45-49 50-54 55-59 60-64	non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant non-dominant non-dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.3 21.3	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.5 3.3 3.2	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-34 12-25 16-28 15-27	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4 14.8	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 3.0 3.1 2.7	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21 10-20 10-20
40-44 45-49 50-54 55-59 60-64	dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant non-dominant dominant dominant non-dominant dominant dominant dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0 15.8 15.3	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.3 3.7 3.7 4.2	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26 9-22 9-23 11-27	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7 10.4 10.1 9.9	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7 1.4 2.1 2.0 2.0	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16 9-16 8-13 7-17 6-15 7-15	35-39 40-44 45-49 50-54 55-59 60-64	non-dominant dominant non-dominant dominant non-dominant dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant non-dominant dominant dominant dominant non-dominant dominant	25.4 26.2 25.9 24.5 24.0 23.7 23.8 24.0 23.7 21.3 21.8 21.2 21.4	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.8 4.5 3.3 3.2 3.0	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-34 12-25 16-28 15-27 15-27 14-30	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4 14.8 14.3	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 3.0 3.1 2.9 3.1 3.0	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21 10-20 8-20
40-44 45-49 50-54 55-59 60-64 65-69	dominant non-dominant non-dominant non-dominant dominant dominant dominant dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant dominant non-dominant dominant dominant dominant non-dominant dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0 15.8 15.3 17.0	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.3 3.7 3.9 3.7 4.2 2.9	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26 9-22 9-23 11-27 10-21	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7 10.4 10.1 9.9	2.8 2.5 2.4 2.7 3.0 2.7 2.2 2.4 1.7 1.4 2.1 2.0 2.0 2.4	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16 9-16 8-13 7-17 6-15 7-17	35-39 40-44 45-49 50-54 55-59 60-64 65-69	non-dominant dominant mon-dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.3 21.8 21.2	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.8 4.5 3.3 3.2 3.0 4.1	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-34 12-25 16-28 15-27 15-25 14-30 14-27	18.1 17.5 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4 14.8 14.3	5.0 4.8 4.2 3.4 3.5 3.0 2.8 3.1 2.9 3.1 3.0 3.1 3.0 3.1 3.0	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21 10-20 10-20 8-22
40-44 45-49 50-54 55-59 60-64 65-69 70-75	dominant non-dominant non-dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant dominant non-dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0 15.8 15.3 17.0 15.4 13.8	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.7 3.7 4.2 2.9 2.6 2.6	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26 9-22 9-23 11-27 10-21 11-21 10-21	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7 10.4 10.1 9.9 10.6 10.5	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7 1.4 2.1 2.0 2.0 2.4 2.6 2.2	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-16 8-13 7-17 6-15 7-17 7-15 6-17	35-39 40-44 45-49 50-54 55-59 60-64 65-69	non-dominant dominant non-dominant dominant dominant dominant non-dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant non-dominant dominant non-dominant non-dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.8 21.2 21.4 21.2 18.1 18.8	5.7 4.1 5.4 4.3 3.3 3.8 5.4 5.8 4.5 3.3 3.2 3.0 4.1 3.4 3.3	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-36 16-28 12-25 16-28 15-27 15-25 14-30 14-27 13-27	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4 14.8 14.2 13.7	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 2.7 3.1 2.7	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21 10-20 8-20 8-20 9-19
40-44 45-49 50-54 55-59 60-64 65-69	dominant dominant dominant non-dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant non-dominant dominant non-dominant non-dominant non-dominant non-dominant dominant non-dominant dominant dominant dominant dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0 15.8 15.3 17.0 15.4 13.8 13.3 14.0	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.3 3.7 3.9 4.2 2.9 2.6 3.4	10-27 12-27 10-24 11-25 12-25 12-25 12-28 11-24 12-26 11-24 10-26 9-22 9-23 11-27 10-21 11-21 10-21 17-21	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 10.1 9.9 10.6 10.5 10.1 9.6	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 4 1.7 1.4 2.1 2.0 2.0 2.4 2.6 2.3 2.8	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-18 7-16 9-16 8-13 7-17 6-15 7-17 7-15 6-17 4-16	35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-75	non-dominant dominant non-dominant dominant non-dominant dominant non-dominant dominant non-dominant non-dominant non-dominant dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.3 21.8 21.2 21.4 21.2 18.1 18.8 18.7	5.7 4.1 5.4 4.3 4.9 3.3 3.8 5.4 5.8 4.5 3.3 3.2 3.0 4.1 3.4 4.3	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-34 12-25 16-28 15-27 15-27 14-30 14-27 13-27 9-26	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 14.8 14.3 14.2 14.3	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 3.0 3.1 2.7 3.1 3.0 2.8 3.1 2.9 3.1 3.0 3.1 2.8 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-21 10-20 10-20 8-22 9-19 10-17 8-17
40-44 45-49 50-54 55-59 60-64 65-69 70-75	dominant non-dominant non-dominant non-dominant non-dominant non-dominant dominant non-dominant dominant non-dominant	17.6 18.0 17.7 17.8 17.7 18.7 17.6 18.3 17.8 16.6 15.0 15.8 15.3 17.0 15.4 13.8	4.8 3.6 3.8 4.0 3.5 4.9 4.1 4.0 3.9 3.7 3.7 4.2 2.9 2.6 2.6	10-27 12-27 10-24 11-25 12-25 12-30 12-28 11-24 12-26 11-24 10-26 9-22 9-23 11-27 10-21 11-21 10-21	11.7 11.6 11.9 11.5 11.1 13.2 12.1 12.5 11.4 11.7 10.4 10.1 9.9 10.6 10.5	2.8 2.5 2.4 2.7 3.0 3.0 2.7 2.2 2.4 1.7 1.4 2.1 2.0 2.0 2.4 2.6 2.2	7-17 8-19 8-16 5-15 6-17 9-19 7-18 9-16 8-13 7-17 6-15 7-17 7-15 6-17	35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-75	non-dominant dominant non-dominant non-dominant dominant dominant non-dominant dominant non-dominant dominant dominant dominant dominant dominant dominant dominant dominant non-dominant dominant non-dominant dominant non-dominant	25.4 26.2 25.9 24.5 24.8 24.0 23.7 23.8 24.0 23.7 21.8 21.2 21.4 21.2 18.1 18.8	5.7 4.1 5.4 4.3 3.3 3.8 5.4 5.8 4.5 3.3 3.2 3.0 4.1 3.4 3.3	15-37 19-36 14-40 17-37 15-37 19-33 8-33 15-36 16-36 16-36 16-28 12-25 16-28 15-27 15-25 14-30 14-27 13-27	18.1 17.5 17.1 17.0 16.6 17.9 17.5 17.3 16.4 16.0 15.4 14.8 14.3 14.2 13.7	5.0 4.8 4.2 3.4 3.1 3.5 3.0 2.8 3.1 2.9 3.1 2.7 3.1 3.1 2.7	12-32 13-29 12-24 10-23 14-25 12-27 12-24 12-23 12-22 11-26 11-21 10-20 8-20 8-22 9-19 10-17

Finger Goniometer – The finger goniometer can be used to measure active or passive joint range of motion (ROM). It measures joint flexion and hyperextension. It is calibrated in degrees.

Align the fulcrum of the goniometer with the anatomical fulcrum of the joint being measured. Place the flat arm of goniometer that is attached to the dial indicator on the center of the limb (or extremity) to me measured. Hold both arms of the goniometer and move the joint through its entire range-of-motion (this can be done actively by the subject or passively by the examiner.) The range of motion can be read directly from the dial indicator