NORMS FOR ADULT GRIP STRENGTH

A recent study by Dr. Virgil Mathiowetz indicates that "... individuals using the Baseline" dynamometer are justified in using the normative data that was collected with the Jamar" dynamometer ... ".

For each test of grip strength, the subject was seated with shoulder adducted and neutrally rotated, elbow flexed at 90° , forearm in neutral position, and wrist between 0° and 30° dorsiflexion and between 0° and 15° ulnar deviation.

The standard test protocol used the mean of three strength tests as the resultant score. A score was taken with both the dominant (right) and non-dominant (left) hands.

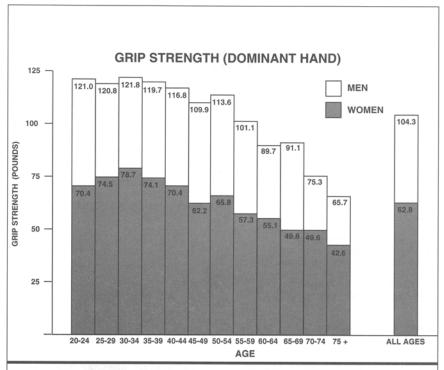
The test results show a relationship between:

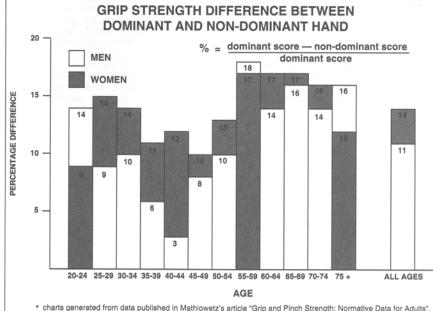
- · hand strength vs. age
- hand strength of men vs. hand strength of women
- · dominant hand strength vs. non-dominant hand strength

MEN							WOMEN				
Mean	SD	SE	Low	High	Age	Hand	Mean	SD	SE	Low	High
121.0	20.6	3.8	91	167	20-24	R	70.4	14.5	2.8	46	95
104.5	21.8	4.0	71	150	2000.7543.	L	61.0	13.1	2.6	33	88
120.8	23.0	4.4	78	158	25-29	R	74.5	13.9	2.7	48	97
110.5	16.2	4.4	77	139		L	63.5	12.2	2.4	48	97
121.8	22.4	4.3	70	170	30-34	R	78.7	19.2	3.8	46	137
110.4	21.7	4.2	64	145	0.75,150	L	68.0	17.7	3.5	36	115
119.7	24.0	4.8	76	176	35-39	R	74.1	10.8	2.2	50	99
112.9	21.7	4.2	73	157		L	66.3	11.7	2.3	49	91
116.8	20.7	4.1	84	165	40-44	R	70.4	13.5	2.4	38	103
112.8	18.7	3.7	73	157		L	62.3	13.8	2.5	35	94
109.9	23.0	4.3	65	155	45-49	R	62.2	15.1	3.0	39	100
100.8	22.8	4.3	58	160		L	56.0	12.7	2.5	37	83
113.6	18.1	3.6	79	151	50-54	R	65.8	11.6	2.3	38	87
101.9	17.0	3.4	70	143		L	57.3	10.7	2.1	35	76
101.1	26.7	5.8	59	154	55-59	R	57.3	12.5	2.5	33	86
83.2	23.4	5.1	43	128		L	47.3	11.9	2.4	31	76
89.7	20.4	4.2	51	137	60-64	R	55.1	10.1	2.0	37	77
76.8	20.3	4.1	27	116		L	45.7	10.1	2.0	29	66
91.1	20.6	4.0	56	131	65-69	R	49.6	9.7	1.8	35	74
76.8	19.8	3.8	43	117		L	41.0	8.2	1.5	29	63
75.3	21.5	4.2	32	108	70-74	R	49.6	11.7	2.2	33	78
64.8	18.1	3.7	32	93		L	41.5	10.2	1.9	23	67
65.7	21.0	4.2	40	135	75 +	R	42.6	11.0	2.2	25	65
55.0	17.0	3.4	31	119		L	37.6	8.9	1.7	24	61
104.3	28.3	1.6	32	176	All	R	62.8	17.0	0.96	25	137
93.1	27.6	1.6	27	160	Subjects	L	53.9	15.7	0.88	23	115

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charts generated from data published in Mathiowetz's article "Grip and Pinch Strength: Normative Data for Adults Archives of Physical Medicine and Rehabilitation 66: 69-74, 1985.