



**MEC Examination  
Frequencies for Muscle Strength (MSX\_B)  
May 2004**

Timed walk & muscle strength time (sec)				
MSAEXLEN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0 to 2429	2293	100.00	2293	100.00



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Timed walk and muscle strength status				
MSAEXSTS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1 : Complete	1560	68.03	1560	68.03
2 : Partial	469	20.45	2029	88.49
3 : Not done	264	11.51	2293	100.00



**MEC Examination**  
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Timed walk and muscle strength comments				
MSAEXCMT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	1560	68.03	1560	68.03
1 : Safety exclusion	234	10.20	1794	78.24
2 : SP refusal	40	1.74	1834	79.98
3 : No time	17	0.74	1851	80.72
4 : Physical limitation	219	9.55	2070	90.27
5 : Communication problem	8	0.35	2078	90.62
6 : Equipment failure	23	1.00	2101	91.63
7 : SP ill/emergency	14	0.61	2115	92.24
40 : Unable to follow protocol	3	0.13	2118	92.37
56 : Came late/left early	106	4.62	2224	96.99
72 : Error (technician/software/supply)	2	0.09	2226	97.08
99 : Other, specify	67	2.92	2293	100.00



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Exclusion criteria for muscle strength				
MSDEXCLU	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	2000	87.22	2000	87.22
1 : Chest/abdomen surgery past three weeks	12	0.52	2012	87.75
2 : Myocardial infarction (or "heart attack") in the past six weeks	8	0.35	2020	88.09
3 : Told by dr had aneurysm in the brain or had a stroke	102	4.45	2122	92.54
4 : Have severe neck or back pain today	38	1.66	2160	94.20
5 : Difficult in bending or straightening right knee	69	3.01	2229	97.21
6 : Had right knee or right hip replacement	64	2.79	2293	100.00



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Time to complete 20 ft walk:				
MSXW20TM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	266	11.60	266	11.60
1.64 to 42.38	2027	88.40	2293	100.00



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Time to complete 8 ft walk:				
MSXW08TM	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	266	11.60	266	11.60
1.32 to 17.45	2027	88.40	2293	100.00



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Pain reported on walking:				
MSXWPAIN	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	247	10.77	247	10.77
1 : Yes	10	0.44	257	11.21
2 : No	2036	88.79	2293	100.00



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Type of device used:				
MSAWDEV	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	247	10.77	247	10.77
1 : None	1944	84.78	2191	95.55
2 : Cane	73	3.18	2264	98.74
3 : Walker	18	0.78	2282	99.52
4 : Other	11	0.48	2293	100.00





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Time to peak force in seconds				
MSDPTIME	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
0 to 19.78	1542	67.25	2293	100.00



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Angle of peak force (degrees)				
MSDPFANG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
89.5 to 151	1542	67.25	2293	100.00



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Arm length cm				
MSXARML	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
21	4	0.17	755	32.93
22	2	0.09	757	33.01
23	9	0.39	766	33.41
24	17	0.74	783	34.15
25	36	1.57	819	35.72
26	57	2.49	876	38.20
27	110	4.80	986	43.00
28	128	5.58	1114	48.58
29	145	6.32	1259	54.91
30	193	8.42	1452	63.32
31	178	7.76	1630	71.09
32	186	8.11	1816	79.20
33	141	6.15	1957	85.35
34	124	5.41	2081	90.75
35	84	3.66	2165	94.42
36	55	2.40	2220	96.82
37	31	1.35	2251	98.17
38	27	1.18	2278	99.35
39	11	0.48	2289	99.83
40	3	0.13	2292	99.96
43	1	0.04	2293	100.00



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Gravity Correction in Lb				
MSXGRAV	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	756	32.97	756	32.97
1	1	0.04	757	33.01
2	2	0.09	759	33.10
3	4	0.17	763	33.28
4	19	0.83	782	34.10
5	21	0.92	803	35.02
6	28	1.22	831	36.24
7	46	2.01	877	38.25
8	55	2.40	932	40.65
9	68	2.97	1000	43.61
10	87	3.79	1087	47.41
11	93	4.06	1180	51.46
12	104	4.54	1284	56.00
13	150	6.54	1434	62.54
14	147	6.41	1581	68.95
15	108	4.71	1689	73.66
16	110	4.80	1799	78.46
17	97	4.23	1896	82.69
18	87	3.79	1983	86.48
19	67	2.92	2050	89.40
20	43	1.88	2093	91.28
21	45	1.96	2138	93.24
22	39	1.70	2177	94.94
23	29	1.26	2206	96.21
24	26	1.13	2232	97.34
25	24	1.05	2256	98.39
26	6	0.26	2262	98.65
27	10	0.44	2272	99.08
28	7	0.31	2279	99.39
29	3	0.13	2282	99.52
30	6	0.26	2288	99.78
31	2	0.09	2290	99.87
32	1	0.04	2291	99.91
33	1	0.04	2292	99.96
34	1	0.04	2293	100.00



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Peak force velocity degree/seconds				
MSDPFVEL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
-5.75 to 68.25	1542	67.25	2293	100.00



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Peak force (Newtons)				
MSDPF	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
46 to 805	1542	67.25	2293	100.00



**MEC Examination  
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Number of trials				
MSDNTR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
1	6	0.26	757	33.01
2	2	0.09	759	33.10
3	4	0.17	763	33.28
4	7	0.31	770	33.58
5	25	1.09	795	34.67
6	1498	65.33	2293	100.00



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Average peak force (Newtons)				
MSDAPF	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
46 to 658.7	1542	67.25	2293	100.00





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The selected peak force trial				
MSDPFTR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	751	32.75	751	32.75
1	6	0.26	757	33.01
2	3	0.13	760	33.14
3	3	0.13	763	33.28
4	420	18.32	1183	51.59
5	407	17.75	1590	69.34
6	703	30.66	2293	100.00