

# Normative data

## Blood pressure

Source: American Heart Association

Blood Pressure Category	SYSTOLIC mm Hg (upper number)		DIASTOLIC mm Hg (lower number)
Normal	Less than 120	and	Less than 80
Elevated	120-129	and	Less than 80
High blood pressure (hypertension) Stage 1	130-139	or	80-89
High blood pressure (hypertension) Stage 2	140 or higher	or	90 or higher
Hypertensive crisis (consult your doctor immediately)	Higher than 180	and/or	Higher than 120

## Grip strength

Source: Camry digital hand dynamometer

Table: Norms for Grip Strength in Kilogram (kgs)						
Age	Men			Women		
	Weak	Normal	Strong	Weak	Normal	Strong
10-11	<12.6	12.6-22.4	>22.4	<11.8	11.8-21.6	>21.6
12-13	<19.4	19.4-31.2	>31.2	<14.6	14.6-24.4	>24.4
14-15	<28.5	28.5-44.3	>44.3	<15.5	15.5-27.3	>27.3
16-17	<32.6	32.6-52.4	>52.4	<17.2	17.2-29.0	>29.0
18-19	<35.7	35.7-55.5	>55.5	<19.2	19.2-31.0	>31.0
20-24	<36.8	36.8-56.6	>56.6	<21.5	21.5-35.3	>35.5
25-29	<37.7	37.7-57.5	>57.5	<25.6	25.6-41.4	>41.4
30-34	<36.0	36.0-55.8	>55.8	<21.5	21.5-35.3	>35.3
35-39	<35.8	35.8-55.6	>55.6	<20.3	20.3-34.1	>34.1
40-44	<35.5	35.5-55.3	>55.3	<18.9	18.8-32.7	>32.7
45-49	<34.7	34.7-54.5	>54.5	<18.6	18.6-32.4	>32.4
50-54	<32.9	32.9-50.7	>50.7	<18.1	18.1-31.9	>31.9
55-59	<30.7	30.7-48.5	>48.5	<17.7	17.7-31.5	>31.5
60-64	<30.2	30.2-48.0	>48.0	<17.2	17.2-31.0	>31.0
65-69	<28.2	28.2-44.0	>44.0	<15.4	15.4-27.2	>27.2
70-99	<21.3	21.3-35.1	>35.1	<14.7	14.7-24.5	>34.5

## Balance

Source: Balance Metrix

Postural sway scores	
Low	0-0.30
Medium	0.31-1.00
High	<1.01

### Interpreting the scores

Zero (low) score indicates no postural sway and excellent balance.

Medium to higher scores indicate greater postural sway and poorer balance, which may lead to higher risk of falls.

## Sit to stand

Source: Rikli & Jones

Men			
Age group (years)	Below average	Average	Above average
60-64	< 14	14-19	> 19
65-69	< 12	12-18	> 18
70-74	< 12	12-17	> 17
75-79	< 11	11-17	> 17
80-84	< 10	10-15	> 15
85-89	< 8	8-14	> 14
90-94	< 7	7-12	> 12

Women			
Age group (years)	Below average	Average	Above average
60-64	< 12	12-17	> 17
65-69	< 11	11-16	> 16
70-74	< 10	10-15	> 15
75-79	< 10	10-15	> 15
80-84	< 9	9-14	> 14
85-89	< 8	8-13	> 13
90-94	< 4	4-11	> 11

Rikli R, Jones C, Functional fitness normative scores for community-residing older adults, ages 60-94. Aging Phys Activity 1999;7(2):162-81.