



CARDIORESPIRATORY FITNESS CLASSIFICATIONS BY AGE AND SEX (MET'S)

Age (years)	Classification (METS)					
Men	Very Poor	Poor	Fair	Good	Excellent	Superior
30-39	≤ 9.7	9.8-11.3	11.4-12.9	13.0-14.7	14.8-17.1	≥17.2
40-49	≤ 8.7	8.8-10.2	10.3-11.5	11.6-13.3	13.4-15.9	≥16.0
50-59	≤ 7.4	7.8-8.7	8.8-10	10.1-11.7	11.8-14.5	≥14.7
60-69	≤ 6.4	6.5-7.6	7.7-8.7	8.8-10.3	10.4-12.3	≥12.4
70+	≤ 5.5	5.6-6.6	6.7-7.6	7.7- 9.0	9.1-10.0	≥ 10.1

Age (years)	Classification (METS)					
Women	Very Poor	Poor	Fair	Good	Excellent	Superior
30-39	≤ 6.9	7.0-8.0	8.1-9.2	9.3-10.7	10.8-13.1	≥13.2
40-49	≤ 6.1	6.2-7.1	7.2-8.2	8.3-9.7	9.8-11.9	≥12.0
50-59	≤ 5.4	5.5-6.2	6.3-7.2	7.3-8.1	8.2-10.2	≥10.3
60-69	≤ 4.7	4.8-5.4	5.5-6.0	6.1-7.0	7.1-8.4	≥8.5
70+	≤ 4.2	4.3-4.9	5.0-5.5	5.6-6.2	6.3-7.2	≥7.3

INTENSITY AND VOLUME TABLES

INTENSITY	% HRR	% HR MAX	Perceived Exertion	10 MET Max	5 MET max
Very Light	<30 %	<57%	≤8	<3.7 METs	<2 METs
Light	30-39%	57-63%	9-11	3.7- 4.5 METs	2-2.5 METs
Moderate	40-59%	64-76%	12-13	4.5- 6.3 METs	2.5-3.3 METs
Vigorous	60-89%	77-95%	14-17	6.3- 9 METs	3.3-4.5 METs
Near Maximal	≥90%	≥96	≥18	>9 METs	>4.5 METs

Volume	Very Poor	Poor	Fair	Good	Excellent	Superior
	≤ 5 MET-hrs/wk	≤ 10 MET-hrs/wk	10-15 MET-hrs/wk	15-20 MET-hrs/wk	20-25 MET-hrs/wk	> 25 MET-hrs/wk

NOTE: VOLUME is the PRODUCT of the FACTORS of Frequency, Intensity and Duration of a persons exercise.

BLOOD WORK NORMS

Blood Urea Nitrogen (BUN)	mg/dL	mmol/L
Normal	10-20	3.6-7.1
High	> 20	> 7.1

Creatinine	mg/dL	mg/dL
Normal	MALE 0.6 - 1.2	FEMALE 0.5-1.1
High	≥ 1.3	≥ 1.2

NOTE: For African-American patients divide lab values by 0.9 before comparing to these norms.

Estimated Glomerular Filtration Rate - eGFR

1	No kidney damage - normal kidney function	≥90
2	Beginning stage of kidney damage	60 – 89
3a	Mild loss of kidney function	44 – 59
3b	Moderate loss of kidney function	30 – 44
4	Severe loss of kidney function	29-15
5	Kidney failure	<15

NOTE: For African-American patients multiply lab values by 1.21 before comparing to these norms.

BODY MASS INDEX (BMI) TABLE WITH CLASSIFICATIONS

BMI HEIGHT	NORMAL				OVERWEIGHT				OBESE				EXTREME OBESITY																							
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
4'10"	91	96	100	105	110	115	119	124	129	134	138	143	148	153	158	162	167	172	177	181	186	191	196	201	205	210	215	220	224	229	234	239	244	248	253	258
4'11"	94	99	104	109	114	119	124	128	133	138	143	148	153	158	163	168	173	178	183	188	193	198	203	208	212	217	222	227	232	237	242	247	252	257	262	267
5'0"	97	102	107	112	118	123	128	133	138	143	148	153	158	163	168	174	179	184	189	194	199	204	209	215	220	225	230	235	240	245	250	255	261	266	271	276
5'1"	100	106	111	116	122	127	132	137	143	148	153	158	164	169	174	180	185	190	195	201	206	211	217	222	227	232	238	243	248	254	259	264	269	275	280	285
5'2"	104	109	115	120	126	131	136	142	147	153	158	164	169	175	180	186	191	196	202	207	213	218	224	229	235	240	246	251	256	262	267	273	278	284	289	295
5'3"	107	113	118	124	130	135	141	146	152	158	163	169	175	180	186	191	197	203	208	214	220	225	231	237	242	248	254	259	265	270	276	282	287	293	299	304
5'4"	110	116	122	128	134	140	145	151	157	163	169	174	180	186	192	197	204	209	215	221	227	232	238	244	250	256	262	267	273	279	285	291	296	302	308	314
5'5"	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210	216	222	228	234	240	246	252	258	264	270	276	282	288	294	300	306	312	318	324
5'6"	118	124	130	136	142	148	155	161	167	173	179	185	192	198	204	210	216	223	229	235	241	247	253	260	266	272	278	284	291	297	303	309	315	322	328	334
5'7"	121	127	134	140	146	152	159	166	172	178	185	191	198	204	211	217	223	230	236	242	249	255	261	268	274	280	287	293	299	306	312	319	325	331	338	344
5'8"	125	131	138	144	151	156	164	171	177	184	190	197	203	210	216	223	230	236	243	249	256	262	269	276	282	289	295	302	308	315	322	328	335	341	348	354
5'9"	128	135	142	149	155	162	169	176	182	189	196	203	209	216	223	230	236	243	250	257	263	270	277	284	291	297	304	311	318	324	331	338	345	351	358	365
5'10"	132	139	146	153	160	167	174	181	188	195	202	209	216	222	229	236	243	250	257	264	271	278	285	292	299	306	313	320	327	334	341	348	355	362	369	376
5'11"	136	143	150	157	165	172	179	186	193	200	206	215	222	229	236	243	250	257	265	272	279	286	293	301	308	315	322	329	336	343	351	358	365	372	379	386
6'0"	140	147	154	162	169	177	184	191	199	206	213	221	228	235	242	250	258	265	272	279	287	294	302	309	316	324	331	338	346	353	361	368	375	383	390	397
6'1"	144	151	159	166	174	182	189	197	204	212	219	227	235	242	250	257	265	272	280	288	295	302	310	318	325	333	340	348	355	363	371	378	386	393	401	408
6'2"	148	155	163	171	179	186	194	202	210	218	225	233	241	249	256	264	272	280	287	295	303	311	319	326	334	342	350	358	365	373	381	389	396	404	412	420
6'3"	152	160	168	176	184	192	200	208	216	224	232	240	248	256	264	272	279	287	295	303	311	319	327	335	343	351	359	367	375	383	391	399	407	415	423	431
6'4"	156	164	172	180	189	197	205	213	221	230	238	246	254	263	271	279	287	295	304	312	320	328	336	344	353	361	369	377	385	394	402	410	418	426	435	443

Source: Adapted from Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report

PERCEIVED EXERTION SCALE

6	NO EXERTION
7	
8	
9	
10	
11	LIGHT
12	
13	SOMEWHAT DIFFICULT
14	
15	DIFFICULT
16	
17	VERY DIFFICULT
18	
19	
20	MAXIMAL EXERTION

HbA1c	mmol/mol	%
Normal	Below 42	Below 5.7%
Prediabetes	42 to 47	5.7% to 6.5%
Diabetes	48 or higher	6.5% or higher

Triglyceride Levels	mg/dL
Normal	<150
Borderline High	150-199
High	200-499
Very High	≥500