Relative health risks attributable to body composition for MALES using single non-graduated waist circumference (WC) cut-points within and across each BMI category.

BMI (kg/m2)	NIH WC (cm)	Health Risk
< 18.5 (underweight)	All circumferences	Generally Reduced (↓)Health Risk
18.5 – 24.9 (normal weight)	< 90	↓Health Risk
	≥ 90	个Health Risk
25.0 – 29.9 (overweight)	< 100	↓Health Risk
	≥ 100	↑Health Risk
30.0 – 34.9 (obese 1)	30.0 − 34.9 (obese 1) < 110	
	≥ 110	↑Health Risk
≥ 35 (obese II+)	< 125	↑↑Health Risk
	≥ 125	个个个Health Risk

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**Table 1b** Relative health risks attributable to body composition for FEMALES using single non-graduated waist circumference (WC) cutpoints within and across each BMI category.

BMI (kg/m2)	NIH WC (cm)	Health Risk
< 18.5 (underweight)	All circumferences	Generally Reduced (↓)Health Risk
18.5 – 24.9 (normal weight)	< 80	↓Health Risk
	≥ 80	↑Health Risk
25.0 – 29.9 (overweight)	< 90	↓Health Risk
	≥ 90	个Health Risk
30.0 – 34.9 (obese 1)	< 105	个Health Risk
	≥ 105	↑Health Risk
≥ 35 (obese II+)	< 115	个个Health Risk
	≥ 115	个个个Health Risk

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## **-SUPPLEMENTAL MATERIAL FOR UNIT FOUR: CHAPTER 7**

**Table 2a** Health Benefit Zones from estimated VO₂ max, including the corresponding estimated MET equivalents

Age 15-19				
Health Benefit Zone	Males		Females	
	mL•kg-1•min-1	METs	mL•kg-1•min-1	METs
Excellent	57.4+	16.5+	49.0+	14.1+
Very Good	52.4-57.3	15-16.4	43.7-48.9	12.5-14
Good	48.8-52.3	13.9-14.9	39.5-43.6	11.3-12.5
Fair	43.6-48.7	12.5-13.9	36.8-39.4	10.5-11.3
Needs Improvement	<43.6	<12.5	<36.8	<10.5
Age 20-29				
Health Benefit Zone	Males		Females	
	mL•kg-1•min-1	METs	mL•kg-1•min-1	METs
Excellent	55.6+	16.0+	47.2+	13.6+
Very Good	50.6-55.5	14.5-15.9	42.0-47.1	12.0-13.5
Good	47.2-50.5	13.5-14.4	37.8-41.9	10.8-11.9
Fair	41.6-47.1	11.9-13.5	35.0-37.7	10-10.7
Needs Improvement	<41.6	<11.9	<35.0	<10
Age 30-39				
Health Benefit Zone	Males		Females	
	mL•kg-1•min-1	METs	mL•kg-1•min-1	METs
Excellent	48.8+	14.0+	45.4+	13.0+
Very Good	45.4-48.7	13.0-13.9	40.1-453	11.5-12.9
Good	40.1-45.3	11.5-12.9	36.0-40.0	10.3-11.4
Fair	33.7-40.0	9.6-11.4	33.0-35.9	9.4-10.3
Needs Improvement	<33.7	<9.6	<33.0	<9.4

## **SUPPLEMENTAL MATERIAL FOR UNIT FOUR: CHAPTER 7**

**Table 2a** Health Benefit Zones from estimated VO₂ max, including the corresponding estimated MET equivalents, cont'd

Health Benefit Zone	Males		Females	
	mL•kg-1•min-1	METs	mL•kg-1•min-1	METs
Excellent	47.0+	13.4+	40.0+	11.4+
/ery Good	42.7-46.9	12.2-13.4	35.1-39.9	10.1-11.4
Good	35.5-42.6	10.1-12.1	31.9-35.0	9.1-10.0
- air	31.9-35.4	9.1-10.1	21.7-31.8	6.2-9.0
Needs Improvement	<31.9 <9.1		<21.7	<6.2
Age 50-59			L	
Health Benefit Zone	Males		Females	
	mL•kg-1•min-1	METs	mL•kg-1•min-1	METs
Excellent	41.8+	11.9+	36.6+	10.5+
/ery Good	36.5-41.7	10.4-11.9	34.0-36.5	9.7-10.4
Good	30.1-36.4	8.6-10.4	31.0-33.9	8.9-9.7
air	26.0-30.0	7.4-8.6	24.6-30.9	7.0-8.8
Needs Improvement	<26.0	<7.4	<24.6	<7.0
Age 60-69				
lealth Benefit Zone	Males		Females	
	mL•kg-1•min-1	METs	mL•kg-1•min-1	METs
xcellent	38.4+	11.0+	35.8+	10.2+
ery Good	32.8-38.3	9.4-10.9	32.8-35.7	9.4-10.1
Good	28.7-32.7	8.2-9.3	29.6-32.7	8.5-9.3
air	23.5-28.6	6.7-8.2	23.5-29.5	6.7-8.4
	1			

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## **SUPPLEMENTAL MATERIAL FOR UNIT FOUR: CHAPTER 7**

## Table 2b

Excellent	$\uparrow$	Your aerobic fitness falls within a range that is generally associated with maximizing health benefits.
Very Good	$\uparrow$	Your aerobic falls within a range that is generally associated with considerable health benefits.
Good	$\uparrow$	Your aerobic fitness falls within a range that is generally associated with many health benefits.
Fair	<b>^</b>	Your aerobic fitness falls within a range that is generally associated with some health benefits but also some health risks. Progressing from here into the Good zone and beyond requires accumulating 150 minutes per week of light to moderate and/or 75 minutes of moderate to vigorous physical activity over the course of most days of the week. This is a very significant step to increasing the health benefits from aerobic fitness and progressing beyond will further increase the health benefits associated with your aerobic fitness.
Needs Improvement	<b></b>	Your aerobic fitness falls within a range that is generally associated with considerable health risks. Try to accumulate 150 minutes or more of light to moderate intensity physical activity per week. This equates to 30 minutes or more over the course of most days of the week.

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