PAPREN

## Measure

Validated questions

## ［measurement］

## Aerobic <br> Physical Activity

## Muscle

 StrengthSedentary Behavior

This question is about sitting at work，home，getting to and getting from places，including time spent sitting at a desk，traveling in a car or bus，reading，playing cards，watching television，or using a computer．DO NOT include time spent sleeping．

## ＂During the past month，how many times per week

 did you do physical activities or exercises to STRENGTHEN your muscles？＂Count activities using your own body weight，such as sit－ups or push －ups，and those using weight machines，free weights，or elastic bands．DO NOT count aerobic activities such as walking or running．

## ＂How much time do you usually spend sitting on a

## typical day？＂

［days／week］

## Males：

100.27 －（ $0.296 \times$ age $)-(0.369 \times$ waist circumference $)-(0.155 \times$ resting heart rate）$+(0.226 \times$ Physical Activity Index）

Females：
74.74 －（ $0.247 \times$ age $)-(0.259 \times$ waist circumference $)-(0.114 \mathrm{x}$ resting heart rate）＋（ $0.198 \times$ Physical Activity Index）

Physical Activity Index score＝sum of responses $[(A+B+C)]$

A．How frequently do you exercise？
B．How hard do you push yourself？

## C．How long does each session last？

［minutes or hours／ day］
［days $\times$ minutes］

## ＂On average，how many days per week do you engage in moderate to strenuous exercise？＂ <br> ［days］

These are activities that cause a light or heavy sweat，such as walking fast，running，jogging，dancing，swimming，biking．
＂On average，how many minutes

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ANDEVALUATION NETWORK

## Recommendations

$\geq 150-300 \mathrm{~min}$ ．of moderate－intensity aerobic physical activity OR
$\geq 75$－150 min．of vigorous－intensity aerobic physical activity OR
equivalent combination of moderate and vigorous－intensity activity throughout the week
$\qquad$
［never or＜1／week＝ 0

## $1 /$ week $=1$

2－3 times a week $=2$ almost every day $=3$ ］

$$
\text { [take it easy = } 0
$$

$$
\text { heavy breath and sweat = } 5
$$

$$
\text { push near exhaustion = } 10 \text { ] }
$$

$$
\begin{gathered}
{[\leq 15 \text { minutes }=1} \\
16-30 \text { minutes }=1.5 \\
>1 \text { hour }=1.5]
\end{gathered}
$$

＊A validated predictive equation may be most easily used in worksite settings，unless employers have established relationships with universities／clinics that can conduct the cardiometabolic testing．
$\checkmark$ Limit sedentary time
$\checkmark$ Replace sedentary time with physical activity of any intensity
$\checkmark$ Aim to do more than the recommended levels of moderate－to vigorous－intensity physical activity

| Maximal Oxygen Uptake Norms for Men（ $\mathrm{ml} / \mathrm{kg} / \mathrm{min}$ ） | Rating age | 18－25 | 26－35 | 36－45 | 46－55 | 56－65 | 65＋ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Excellent | ＞60 | ＞56 | ＞51 | ＞45 | ＞41 | ＞37 |
|  | Good | 52－60 | 49－56 | 43－51 | 39－45 | 36－41 | 33－37 |
|  | Above Average | 47－51 | 42－48 | 39－42 | 36－38 | 32－35 | 29－32 |
|  | Average | 42－46 | 40－42 | 35－38 | 32－35 | 30－31 | 26－28 |
|  | Below Average | 37－41 | 35－39 | 31－34 | 29－31 | 26－29 | 22－25 |
|  | Poor | 30－36 | 30－34 | 26－30 | 25－28 | 22－25 | 20－21 |
|  | Very Poor | ＜30 | ＜30 | ＜26 | ＜25 | ＜22 | ＜20 |
| Maximal Oxygen Uptake Norms for Women（ $\mathrm{ml} / \mathrm{kg} / \mathrm{min}$ ） | RAting AgE | 18－25 | 26－35 | 36－45 | 46－55 | 56－65 | 65＋ |
|  | Excellent | ＞56 | ＞52 | ＞45 | $>40$ | ＞37 | ＞32 |
|  | Good | 47－56 | 45－52 | 38－45 | 34－40 | 32－37 | 28－32 |
|  | Above Average | 42－46 | 39－44 | 34－37 | 31－33 | 28－31 | 25－27 |
|  | Average | 38－41 | 35－38 | 31－33 | 28－30 | 25－27 | 22－24 |
|  | Below Average | 33－37 | 31－34 | 27－30 | 25－27 | 22－27 | 19－21 |
|  | Poor | 28－32 | 26－30 | 22－26 | 20－24 | 18－21 | 17－18 |
|  | Very Poor | ＜28 | ＜26 | ＜22 | ＜20 | ＜18 | ＜17 |

