



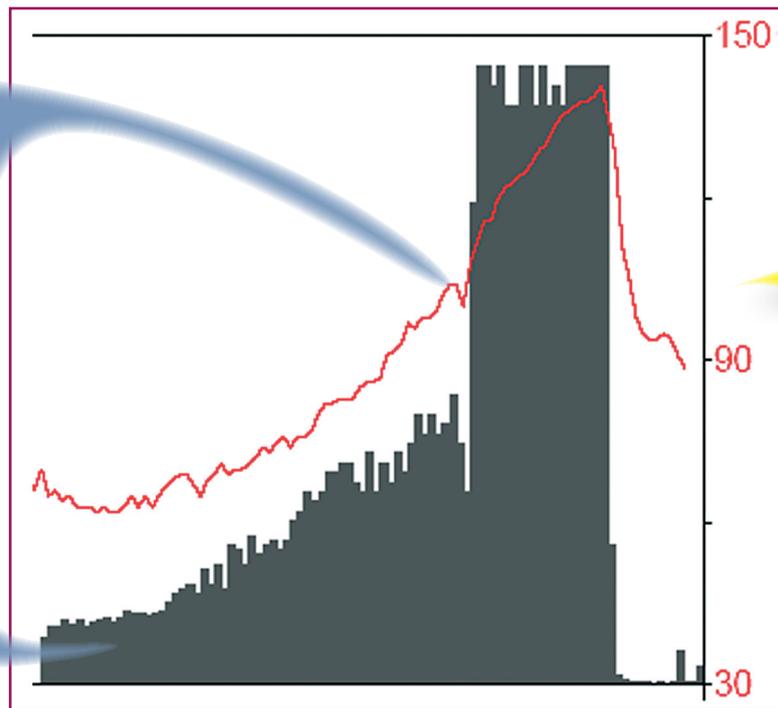
How to interpret your results

1. Feedback of fitness and physical activity

YOUR TREADMILL TEST

The red trace shows your heart rate during the treadmill test

The grey blocks show the measurement of movement



Heart Rate Scale

In this report you will find a graph that looks like the one shown here. This is from the Actiheart worn during the test

MAXIMUM HEART RATE

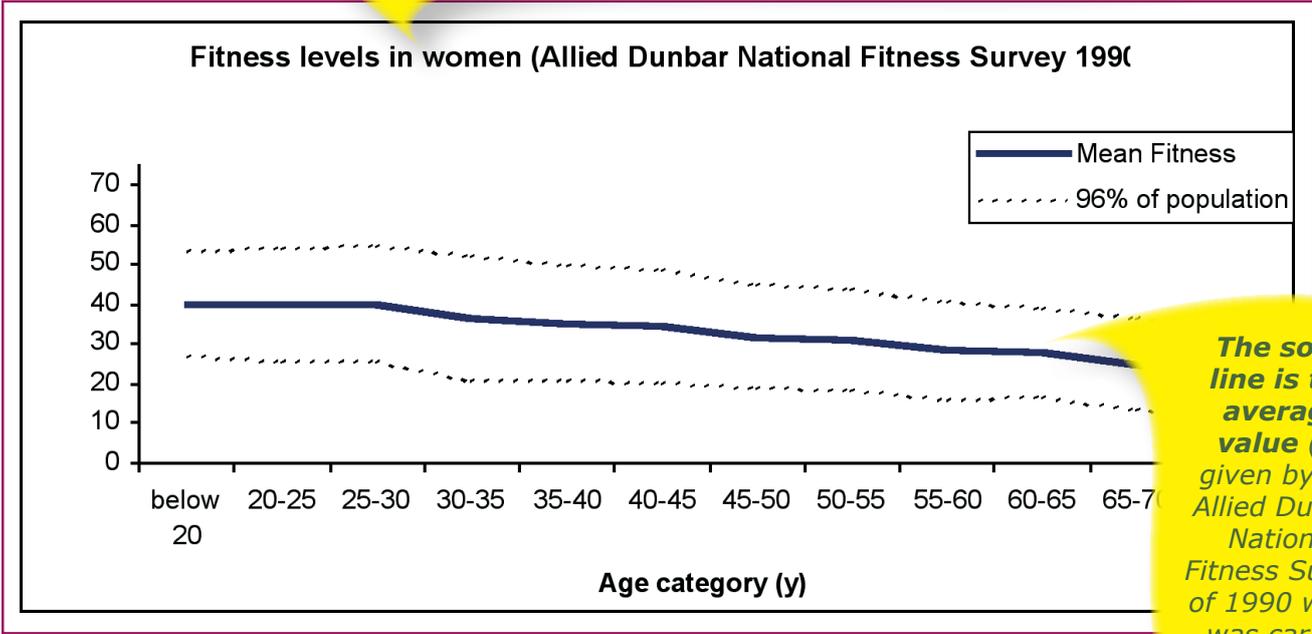
The data shown in the graphs can be used to give an estimate of your fitness. We use your age to make a standard prediction of your maximum heart rate ($208 - 0.7 \times \text{age}$). You will find that value in the report.

YOUR FITNESS LEVEL

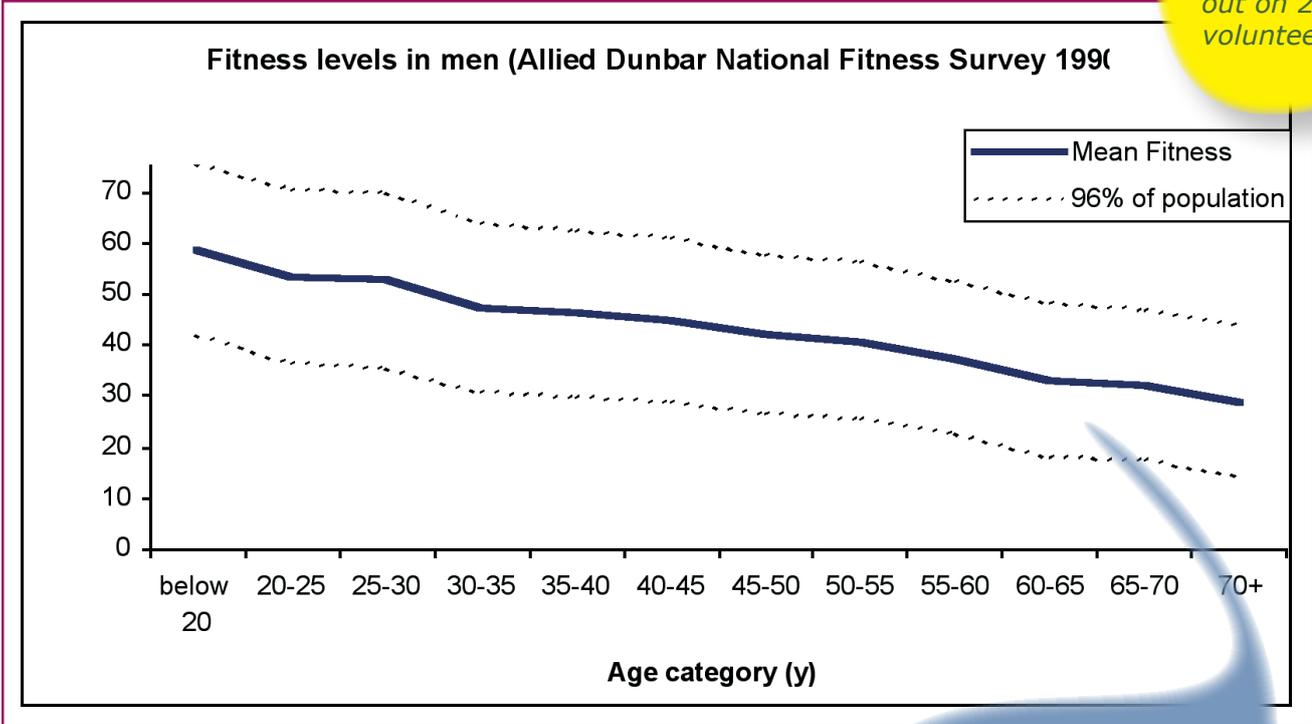
VO2 MAX

Knowing the relationship between your heart rate and oxygen consumption we can then estimate how much oxygen you would use at your maximum heart rate. This is expressed relative to your weight to give your fitness level. **You will find that value in the report.**

The graphs below can be used to show how your fitness compares to the general population.



The solid line is the average value (as given by the Allied Dunbar National Fitness Survey of 1990 which was carried out on 2000 volunteers.)



The area within the broken lines shows where 96% of the population lies

"Allied Dunbar National Fitness Survey 1990"

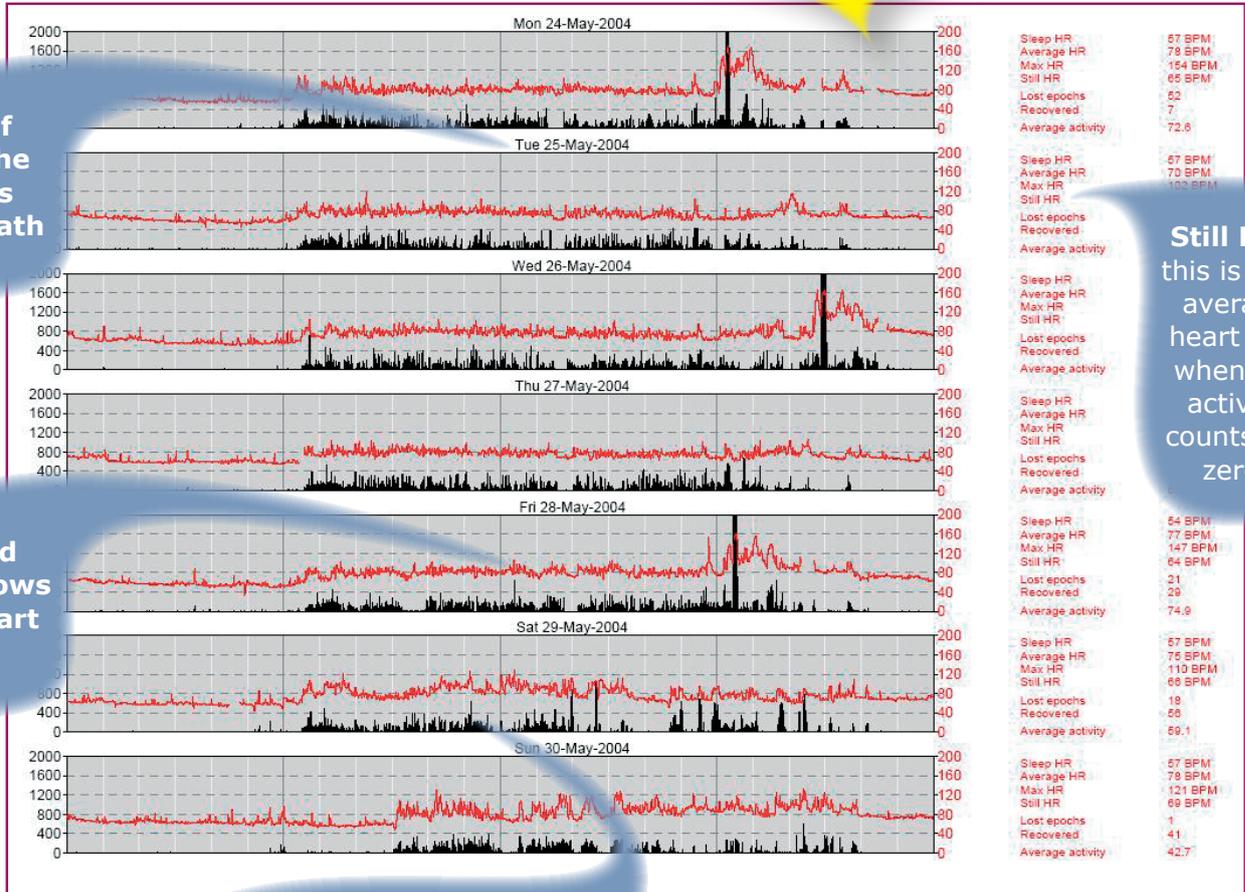
YOUR FREE-LIVING MEASUREMENTS

In this report you will find graphs from the Actiheart that you wore for 6 days of free living. They look similar to the graphs shown here.

Date of trace, the trace is underneath

The red trace shows your heart rate

The grey blocks show measurement of movement



Still HR : this is your average heart rate when the activity counts are zero.

ENERGY EXPENDITURE DURING YOUR 6 DAYS FREE LIVING

REE We measured your oxygen consumption at rest. From this we can estimate your resting energy expenditure **REE**. This is the **minimum** amount of energy you spend all the time, even when you are asleep.

AEE We have used the Actiheart data to estimate your activity energy expenditure **AEE**.

TEE We have also estimated your total energy expenditure **TEE** (activity plus rest plus 10% for processing the diet) for each of the six days.

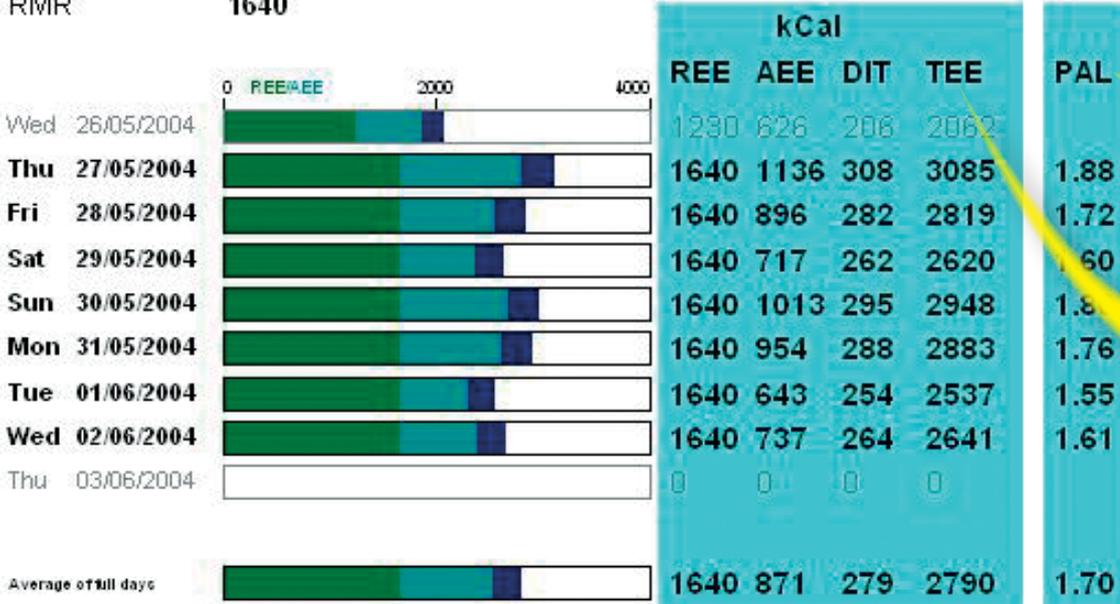
PAL The ratio of total energy expenditure **TEE** and resting energy expenditure **REE** is known as your physical activity level **PAL**.

You will find all these values in your report.

*In this report you will find a page like this.
It shows estimates of your energy levels
over the 6 days you wore the Actiheart.*

Actiheart Energy Expenditure

User ID: 99934_free Weight: 67kg
 Age: 39 Height: 1.67m
 User sex: Female BMI: 24
 RMR: 1640



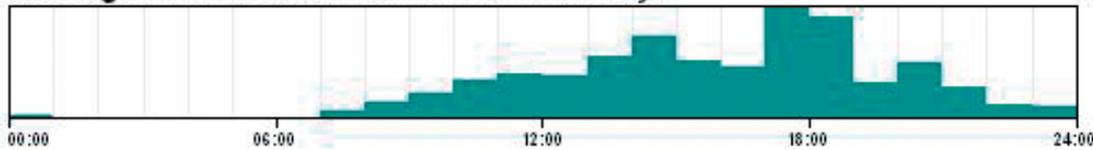
PAL:
Physical activity level

TEE:
Total energy expenditure per 24 hours

REE:
Resting energy expenditure per 24 hours

AEE:
Activity energy expenditure per 24 hours

Average distribution of AEE for all full days



Average daily times for MET Levels

1.0 to 1.5 MET	1.5 to 2.0 MET	2.0 to 2.5 MET	2.5 to 3.0 MET	3.0 to 6.0 MET	More than 6.0 MET
15:32	03:47	02:24	00:58	01:11	00:06

This is a breakdown of the time spent at different intensity levels as multiples of rest (METS)

TEE = Total Energy Expenditure (REE + AEE + DIT)
 REE = Resting Energy Expenditure
 DIT = Diet Induced Thermogenesis (10% of TEE)
 AEE = Activity Energy Expenditure
 PAL = Daily Physical Activity Level TEE/REE

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AEE/TEE version 1.1 Cambridge Neurotechnology

Data from many different studies have been used to give the following reference values for physical activity levels. These values are based on energy requirements and as such are only rough estimates.

PAL value	Description
<1.2	<i>Bed rested. Most likely when in care of others</i>
1.2 – 1.55	<i>Low activity level: Sedentary lifestyle</i>
1.55 - 1.71	<i>Medium activity level: Occasionally active. Typical office work</i>
1.71 – 1.95	<i>High activity level: Some manual work and/or regular exercise</i>
>1.95	<i>Very high activity level: A fair amount of manual work or exercise training</i>

Reference values for PAL (FAO/WHO/UNU 1985)

It is still unknown how much energy humans should expend to maintain good health.

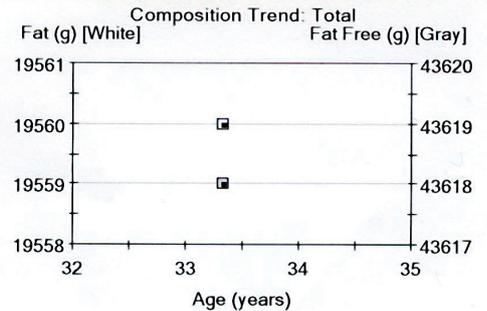
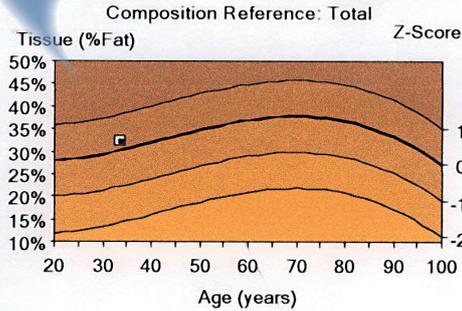
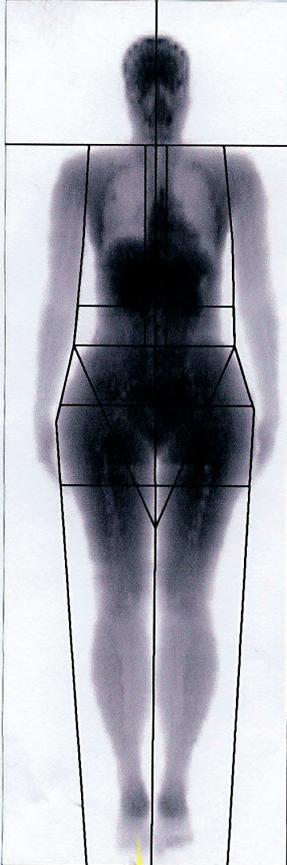
Your participation in this study has contributed to answering this important question.

2. Feed back on your DEXA report on body composition

You will find a page in your report that looks like this.
This page helps to explain what you see.

This graph compares your % body fat with the average body fat for your peers, e.g. for a healthy normal subject matched for age, sex and ethnic origin. The dot represents where you are and the darker line represents the average.

Total Body Tissue Quantitation

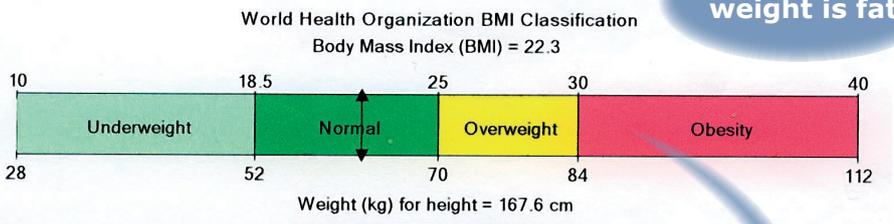


This table show your body fat patterning. Android fat is the fat stored around your waist and gynoid fat is the fat around your hips. Some of us are "apple" shaped with more android fat and some of us are "pears" with more gynoid fat

Trend: Fat Distribution					
Measured Date	Age (years)	Android (%Fat)	Gynoid (%Fat)	A/G Ratio	Total Body (%Fat)
22/06/2000	33.3	26.6	45.0	0.59	32.5

This tells you what % of your body weight is fat

This is you!
It is the image of your Body Composition exam



This table shows whether you are a healthy weight for your height. It uses the World Health Organisation criteria. The arrow indicates where you are.