

每月乳癌教育講座

主題: 你的體重管理與健康

免責聲明

Disclaimer

本資訊衹用作教育用途,並為出席人士對相關主題提供基本資訊。

The information provided is for educational purposes only as well as to give you general information and a general understanding of the subject.

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以英文版本為準



Who am I?

Nutrition

Health promotion practitioner (nutrition promotion) at Cancer Council Western Australia

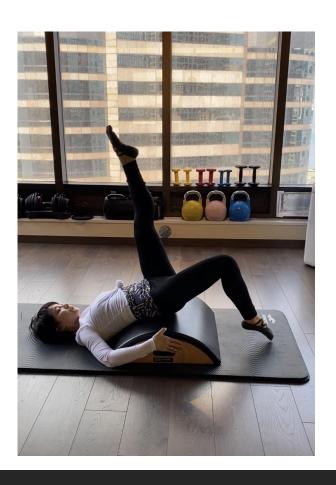
Completion of Certificate in Understanding Nutrition and Weight Management for Personal Trainers

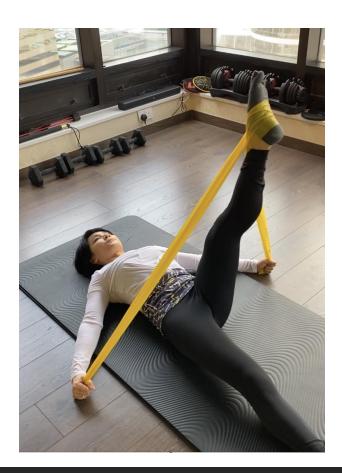
Exercise

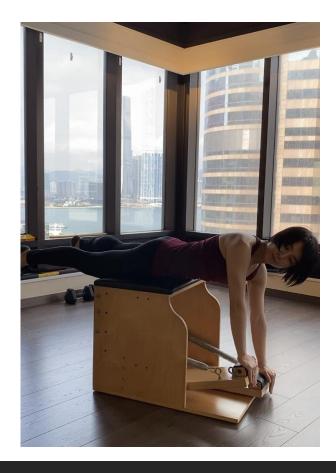
STOTT PILATES ® Certified instructor for Matwork, Reformers, Cardillac, Chair and Barrels

Certified Cancer Exercise Specialist

What is Pilates



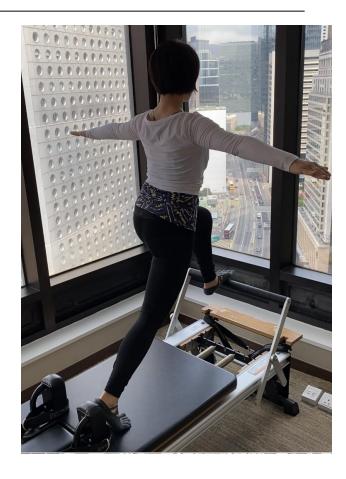




What is Pilates







What do you think about

Underweight VS malnutrition

Ideal weight VS looks fit

Overweight VS obese

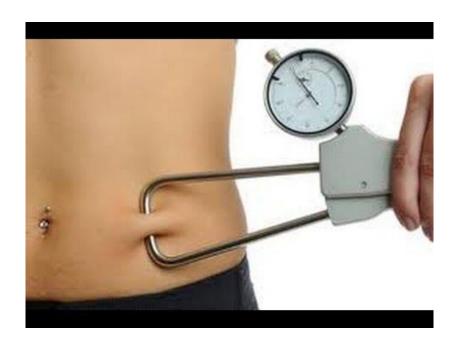
→ Weight management

Persistent action throughout our lives

Index and measurements

- 1) Body Mass Index (BMI)
- 2) Waist Hip Ratio (WHR)
- 3) Body fat percentage (Fat %)
 - 3a) Bioelectrical Impedance Analysis
 - 3b) Skinfold Test

*Interactive activities



Body Mass Index (BMI)

It provides an assessment of overall body weight and baseline for weight management program

Calculation: Weight (kg)/ Height (m²)

Standard: Normal range (18.5-22.9)

Ideal body weight = Target BMI X Height (m²)

Adjusted desired body weight = (Actual weight – ideal weight) x 0.25 + ideal body weight

*Interactive activity 1

Body Mass Index (BMI)

Centre of Health Protection, HKSAR BMI Index

https://www.chp.gov.hk/en/resources/e_health_topics/pdfwav_11003.html?page=2

WHO Asian BMI Index

https://www.researchgate.net/figure/WHO-Asian-BMI-classification_tbl1_296026141

Waist circumference

Standard : Australian Better Health Government Initiative, if waist measurement:

- ❖ ≤ 80 cm in healthy range
- ❖ 80-88 cm at risk range
- ❖≥ 88cm at high risk range

*Interactive activity 2

Waist Hip Ratio (WHR)

It provides an assessment of abdominal fat (belly fat)

Calculation: Waist (cm) / Hip (cm)

Standard 1: According to World Health Organization, a healthy WHR

Health risk	Women	Men
Low	0.80 or lower	0.95 or lower
Moderate	0.81-0.85	0.96-1.0
High	0.86 or higher	1.0 or higher

^{*}Interactive activity 3

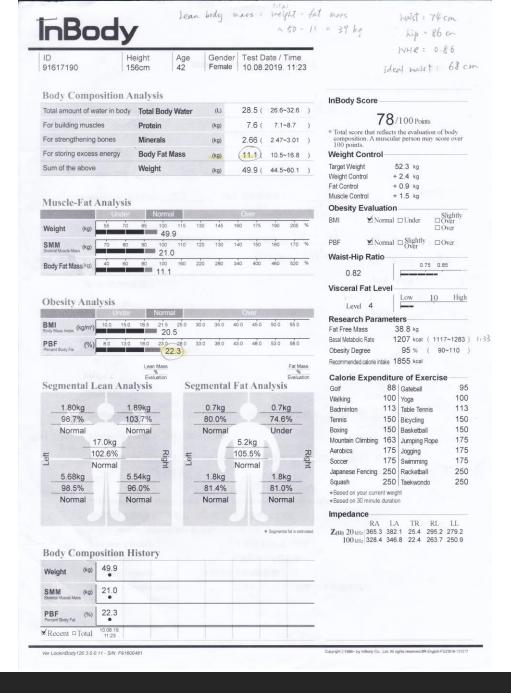
Body Fat % Measurement

Use Bioelectrical Impedance Analysis

Considerations:

- ☐ Relax arms and look forward
- ☐ Measure at the same time of the day
- Avoid measure after lunch

Body Composition Analyzer 10/20/2014 12:26 PM ID k0009 154 cm Height Type Normal ■ Details BC-418 Result Desirable 50.2 kg 47.3-54.5 kg 26.6 % 21.0-35.0 % Fat Mass 13.4 kg 10.4-13.0 kg 36.9-41.6 Muscle Mass 34.8 kg 34.8-39.5 21.2 18.5-23.0 75 Muscle Mass 34.8 kg Metabolic Age ■ BMR VFA TBW Physique Rating Solidly-Build Visceral Fat Rating 3 Very High #kg ICW ECW TBW ECW/TBW Muscle Mass **■** Segmental Analysis Muscle Mass +4~+2 High +1~-1 Average -2~-4 Under Trunk 23.8% / 6.6kg +4~+2 High +1~-1 Average Right Arm Right Arm 1.6kg 1.7kg 24.3% / 0.6kg 22.4% / 0.5kg Left Leg Right Leg Left Leg 5.8kg 5.8kg 31.8% / 2.9kg 32.2% / 2.9kg **■** Balance Leg Muscle Score Body Fat Distribution Right arm 0 Left leg Right leg 0 60 97 20 30 40 50 60 70 80 90 (Age) 0.0 20 30 40 50 60 70 80 90 (Age) BIA Information



Skinfold Test







Skinfold test

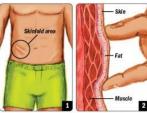
Measuring Skinfold Body Fat with the GoFit Body Fat Caliper

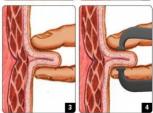
skin. For this reason, skinfold measurement is an effective and scientifically-trusted way to determine body fat percentage. The GoFit Body Fat Caliper is designed to make this a simple and accurate procedure that you can perform

Taking an accurate skinfold body fat caliper reading

- 1. Move the "measure slide" on the curved part of the Caliper fully to the right. Hold the Caliper in your right hand.
- 2. The area to use for skinfold measurement is called the suprailliac. To find this area, put your left index finger on the point of your right hip bone and move up one inch (figure 1).
- 3. Stand straight, With the left hand, place your thumb and index finger two-to-three inches apart, then firmly grasp the suprailliac skinfold. Gently pull the skinfold outward, pulling the skin and underlying fat away from the muscle tissue (figures 2 and 3). If there is a large amount of fat, open your thumb and index finger wider to grasp and pull the skinfold. Grasp the skin directly, without clothing covering it.
- 4. Using your right hand, place the jaws of the Caliper over the skinfold about 1/4 of an inch from your thumb and index finger (figures 4 and 5). The Caliper tips should be placed in the center area of the skinfold. Be sure the Caliper is at a right angle to the skinfold.
- 5. Continue holding the skinfold with your left thumb and index finger. With your right thumb in the indention of the "Accuracy Lever," squeeze the Caliper, closing it onto the skinfold until you feel a slight click. Stop squeezing when you feel the click (figure 5). Let the Caliper spring open. The lines on the "measure slide" now line-up with the measurement scale indicating your skinfold measurement. Record this reading to the nearest millimeter, then return the "measure slide" back to the right for your next reading.
- 6. After you have taken one measurement, take a second. If this reading is more than 1mm apart from the first measurement, take a third reading and so on. When the readings are consistent, your measurement is accurate.
- 7. To calculate body fat percentage from your measurement, follow the steps and refer to the Male or Female Body Fat Percentage Calculation Charts to the right.

The majority of fat on the body is located directly under the on yourself (or have someone else perform). Although this measuring process is simple, it's best to carefully follow the instructions to do the prodecure correctly and consistently.







Calculating Body Fat Percentage

- Step 1: Use the GoFit Body Fat Caliper to get your skinfold measurement in millimeters.
- Step 2: Find the column with your measurement-follow it down to where it intersects with your age range.
- Step 3: The number at this intersection is your body fat percentage.
- Step 4: For measurements exceeding 36mm, add 25% for each additional millimeter of skinfold thickness.

Body fat percentage calculation chart - Male

	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-39
18-22	2	4	6	8.5	10.5	12.5	14.5	16	17.5	19	20	21.5	22.5	23	24	24.5	25
23-27	2,5	5	7.5	9.5	11.5	13.5	15.5	17	18.5	20	21	22.5	23,5	24	25	25.5	26
28-32	3.5	6	8.5	10.5	12.5	14.5	16.5	18	19.5	21	22.5	23.5	24.5	25	26	26.5	27
33-37	4.5	7	9.5	11.5	13.5	15.5	17.5	19	20.5	22	23.5	24.5	25.5	26.5	27	27.5	28
38-42	5.5	8	10.5	12.5	15	17	18.5	20	22	23	24.5	25,5	26,5	27.5	28	28.5	29
43-47	6.5	9	11.5	14	16	18	19.5	21.5	23	24.5	25.5	26.5	27.5	28.5	29	29.5	30
48-51	7.5	10	12.5	15	17	19	20.5	22.5	24	25.5	26.5	27.5	28.5	29.5	30	30.5	31
52-55	9	11.5	13.5	16	18	20	22	23.5	25	26.5	27.5	28.5	29.5	30.5	31	32	32
56-Up	10	12.5	14.5	17	19	21	23	24.5	26	27.5	28.5	30	31	31.5	32.5	33	33.5

Body fat percentage calculation chart - Female

	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-39
18-22	11.5	13.5	15.5	17,5	19.5	21.5	23	25	26.5	27.5	29	30	31.5	32.5	33	34	34.5
23-27	12	14	16.5	18.5	20.5	22	24	25.5	27	28.5	29.5	31	32	33	34	34.5	35
28-32	12.5	15	17	19	21	22.5	24.5	26	27.5	29	30.5	31.5	32.5	33.5	34.5	35	36
33-37	13	15.5	17.5	19.5	21.5	23.5	25	26.5	28	29.5	31	32	33	34	35	36	36.5
38-42	14	16	18	20	22	24	25.5	27.5	29	30	31.5	32.5	34	35	35.5	36.5	37
43-47	14.5	16.5	19	21	23	24.5	26.5	28	29.5	31	32	33.5	34.5	35.5	36.5	37	37.5
48-51	15	17.5	19.5	21.5	23.5	25	27	28.5	30	31.5	33	34	35	36	37	37,5	38.5
52-55	15.5	18	20	22	24	26	27.5	29	30.5	32	33.5	34.5	35.5	36.5	37.5	38.5	39
56-Up	16.5	18.5	20.5	22.5	24.5	26.5	28	30	31.5	32.5	34	35	36.5	37	38	39	39.5

GoFit Body Fat Caliper Measurement suggestions

- . For optimal consistency, use the same caliper for each reading, doing the readings at the same time of day.
- · Always take measurements on your right side.
- . Take readings only on healthy, unblemished skin.
- · Skinfold site and fingers must be dry and free of lotion.
- · Practice grasping the skinfold to develop consistency. Remember to be gentle, avoiding skin irritation.
- . Avoid taking measurements if you feel overheated, or following physical activity. This creates added fluid under the skin, which may cause skinfold to be thicker.
- . Females should avoid measuring during the menstrual cycle, during which time there may be weight gain.
- . It is not recommended for an obese individual to take skinfold measurements. It is recommended to use tape measures like GoFit Go Tape, Fitness Tape Measure.

Body Fat % Measurement

STANDARD FOR WOMAN (17-27%)

	Body Fat Percentage in Women								
Age	Lean	Ideal	Average	Over Fat					
Up to 20	11-18%	18-23%	23-30%	30-35%					
21-25	12-19%	19-24%	24-30%	30-35%					
26-30	13-20%	21-25%	25-31%	31-36%					
31-35	13-21%	21-26%	26-33%	33-36%					
36-40	14-22%	22-27%	27-34%	34-37%					
41-45	14-23%	23-28%	28-35%	35-38%					
46-50	15-24%	24-30%	30-36%	36-38%					
51-55	16-26%	26-31%	31-36%	36-39%					
56 & up	16-27%	27-32%	32-37%	37-40%					

STANDARD FOR MAN (14-23%)

	Body F	Body Fat Percentage in Men						
Age	Lean	Ideal	Average	Over Fat				
Up to 20	2-8%	8-14%	14-21%	21-25%				
21-25	3-10%	10-15%	15-22%	23-26%				
26-30	4-11%	11-16%	16-21%	21-27%				
31-35	5-13%	13-17%	17-25%	25-28%				
36-40	6-15%	15-20%	20-26%	26-29%				
41-45	7-16%	16-22%	22-27%	27-30%				
46-50	8-17%	17-23%	23-29%	29-31%				
51-55	9-19%	20-25%	25-30%	31-33%				
56 & up	10-21%	26-31%	26-31%	31-34%				

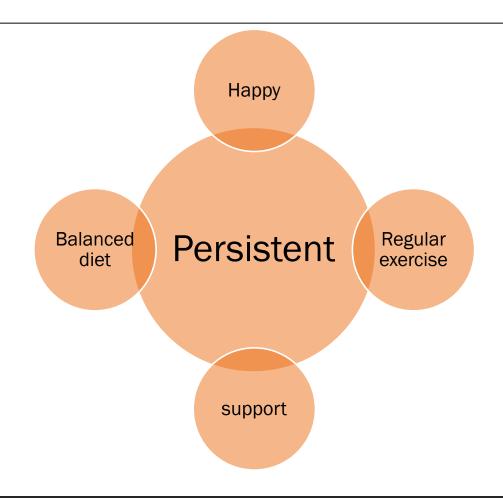
Where to start?

Goal setting

- S specific e.g how many kg away from ideal weight
- M Measurable e.g from medium size to small size
- A Attainable e.g to lose 1-2 pounds per week
- R Relevant e.g. food choice, eating time, sleep quantity and quality, stress
- T Time-bound e.g. achieve the goal in 3 months

Example: I am **READY** to spend 6 months to lose 12 pounds (plus reduce 3% of body fat) and wear my wedding gown nice and fit.

What's next? CHANGE



Identify barriers

List the barriers of being physically active and balanced diet

* Interactive activity 4

Possible solutions



Question and comment



Reference

Centre of Health Protection HKSAR BMI index

https://www.chp.gov.hk/en/resources/e_health_topics/pdfwav_11003.html?page=2

WHO Asian BMI Index

https://www.researchgate.net/figure/WHO-Asian-BMI-classification_tbl1_296026141

Australian Dietary Guidelines by National Health and Medical Research Council

https://www.eatforhealth.gov.au/guidelines/australian-guide-healthy-eating

衛生署星級食肆

https://restaurant.eatsmart.gov.hk

Thonkyou