

CE
Version 1.0

medicare[®]
LIFESENSE[®]

User Manual

Body Analysis Scale Wireless










- Please read the user manual carefully and thoroughly so as to ensure the safe usage of this product, and keep the manual well for your further reference in case you have problems.

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♥ Safety and Usage Information

The warning signs and symbols are essential to ensure your correct and safe use of this product and protect you and others from injury. Please kindly find the meanings of the warning signs and symbols, which you may encounter in the label and user manual, as follows:

	Symbol for "THE OPERATION GUIDE MUST BE READ"		Symbol for "MANUFACTURER"
	Symbol for "COMPLIES WITH EU REQUIREMENTS"		Symbol for "DIRECT CURRENT"
	Symbol for "MANUFACTURE DATE"		Symbol for "ENVIRONMENT PROTECTION – Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice"
	Symbol for "SERIAL NUMBER"		



CAUTION

Medicare Lifesense Body Analysis Scale MD1812 offers you a seamless way to manage your health. Please be aware that this device is designed for healthy population over 10 years old self-measuring and self-monitoring body compositions. Any information provided by this device is in no way meant to treat, cure or prevent any disease or illness from happening. If in doubt, contact your physician.

This device is contraindicated for any female subject who may be suspected of, or is pregnant. Otherwise, the effects of this device on the fetus are unknown.

This device is contraindicated for any person who is connected to a wearable or implantable electronic device or instrument such as a pacemaker or defibrillator.

This device should not be used for anyone who is acutely or chronically ill because of suffering from a disease or taking medications that affect your water levels. The accuracy of readings for these patients has not been verified. Specific medical advice should be obtained from a physician.

MD1812 is equipped with data transmission function. It may emit electromagnetic energy so as to perform its intended function. Nearby portable and mobile RF communications equipment can affect the performance of MD1812. And the device can interfere vicinity electrical equipment.

Manufacturer will make available on request circuit diagrams, component parts list, etc.

WARNING: No modifications of this equipment is allowed. This may result in increased EMISSIONS or decreased IMMUNITY of MD1812.

Please use the device according to the user manual. Any misuse can cause electric shock, burns, fire and other unexpected hazards.

Please use and storage the device under the environment which was provided in the user manual. Don't expose the device to extreme temperatures, direct sunlight, moist or corrosive environment. Do not step on the scale when your body or feet are wet, especially after bathing or showering to prevent slipping.

Please keep the device out of reach of infants, children or pets, since inhalation or swallowing of small parts is dangerous or even fatal.

Please don't use the device out of lifetime any more because degraded sensors and electrodes, or loosened electrodes can degrade performance or cause other problems.

If you have an allergy to stainless steel, please avoid to contact to the electrodes of the device.

The patient is an intended operator. The patient can measure, transmit data and charge battery under normal circumstances and maintain the device and its accessories according to the user manual.

INDICATIONS FOR USE

- The Medicare Lifesense Body Analysis Scale measures weight and uses bio-electrical impedance analysis (BIA) technology to estimate body fat, total body water percentage, bone mass, and muscle mass in generally healthy children 10-17 years old and healthy adults.
- It is intended for use in the domestic setting only.

♥ Tips

To ensure the accuracy of measurement, please follow below instructions when you start measurement.

- Place the scale on a flat, hard surface. Soft surface such as carpet will affect the performance of the scale.
- Step onto the platform with bare feet. Stand still and keep full contact with the electrodes until the measurement is complete.
- Start measurement at least two hours after Getting up or Dining.
- Avoid measurement immediately after strenuous exercise, sauna or bath, drinking, and dining.
- Always start measurement in the same time slot and on the same scale located on the same flat, hard surface.
- For maximum accuracy and repeatability, it is recommended that you should use the device in the same time of the day and on the same location.
- The condition of the skin on the bottom of your feet can affect the reading. The natural effects of aging or activity can make this skin hard. Take the reading with clean, slightly damp feet for best accuracy. If you are having a problem on operating this scale please contact customer service.
- Body fat percentage estimates will vary with the amount of water in the body, and can be affected by dehydration or over-hydration due to such factors as alcohol consumption, menstruation, illness, intense exercise, etc.

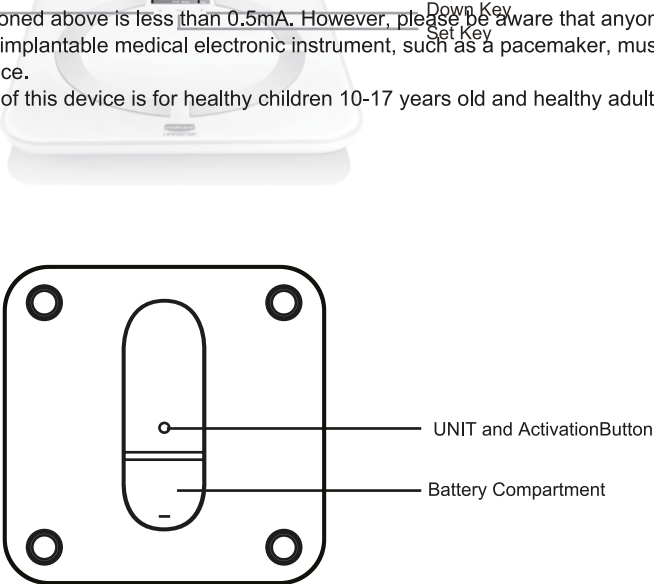
♥ Device Components

Medicare Lifesense Body Analysis Scale applies BIA (Bio-impedance Analysis) technology. A small amount of weak current flows through the human body so as to detect the bio-impedance and estimate body fat, body water, muscle mass and bone mass. The electrical current is small and may not be felt.

This BIA technology is cheap, safe, non-invasive, toxic-free and harmless. It also possesses the characteristics of simple operation and abundant information.

The current mentioned above is less than 0.5mA. However, please be aware that anyone with an wearable or implantable medical electronic instrument, such as a pacemaker, must avoid using this device.

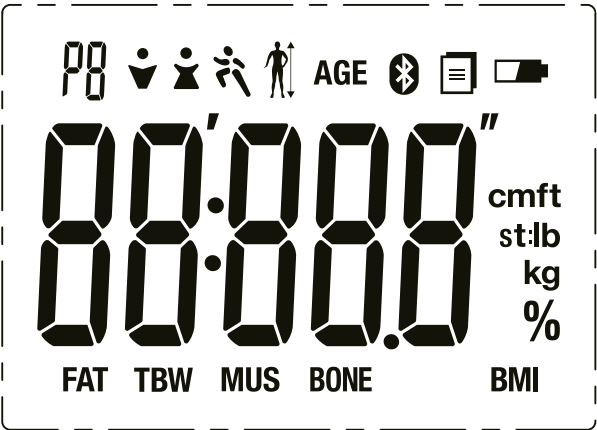
The intended use of this device is for healthy children 10-17 years old and healthy adults.



♥ List

- 1. Body Analysis Scale
- 2. Four AAA-size Batteries (1.5V each)
- 3. User Manual

♥ LCD Display



FAT	Body Fat Analysis Result	AGE	Age
TBW	Water Analysis Result	cm	Centimeter
MUS	Muscle Mass Analysis Result	ft	Foot
BONE	Bone Mass Analysis Result	st:lb	Stone
BMI	Body Mass Index	lb	Pound
	Male	kg	Kilogram
	Female	%	Percentage
	Male Athlete		Successful Bluetooth Connection
	Female Athlete		Data transmitting / pending to transmit to wireless wellness system
	Height		Low Battery
PB	User ID (Range from U1 to U8)		

♥ General Instructions

Medicare Lifesense Body Analysis Scale applies BIA (Bio-impedance Analysis) technology. A small amount of weak current flows through the human body so as to detect the bio-impedance and estimate body fat, body water, muscle mass and bone mass. The electrical current is small and may not be felt.

This BIA technology is cheap, safe, non-invasive, toxic-free and harmless. It also possesses the characteristics of simple operation and abundant information.

The current mentioned above is less than 0.5mA. However, please be aware that anyone with an wearable or implantable medical electronic instrument, such as a pacemaker, must avoid using this device.

The intended use of this device is for healthy children 10-17 years old and healthy adults.

♥ Insert the Batteries

- Open the battery door in the back of the scale.
- Insert the batteries (4 x 1.5V AAA) into the battery compartment according to the polarity indications marked inside the compartment.


* The digits "8888" will be shown on the LCD.



- Close the battery door and wait until the digits "00" are shown on the LCD.




CAUTION

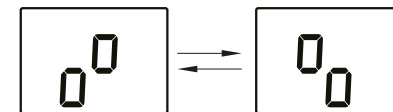
- When the symbol  appears, the device will power off. Then you shall replace with a new set of batteries. Please replace all four batteries at the same time. Do NOT mix the old batteries with the new one.
- Worn batteries are hazardous waste. Do NOT dispose of them together with the household garbage.
- Please refer to the local ordinances and recycling instructions regarding disposal of the worn batteries and scrapped device.
- If you do not intend to use this unit for a prolonged period of time, it is advisable to remove the batteries before storing.

♥ Pair-Up

With the advanced Bluetooth 4.0 technology applied, the mobile or portable equipments, which are equipped with Bluetooth function in line with BLE Technical Specifications established by global organization Bluetooth SIG, are capable to receive your personal health data.

- Turn on Bluetooth and the App. Make sure both are ON when pair-up is proceeding.
- Press and hold "UNIT" button in the back of the scale to start pair-up.

Symbol  and symbol  will be shown on the LCD alternatively, indicating pair-up is proceeding.



If SUCCEED, symbol  will be shown on the LCD.



If FAIL, symbol "E1" will be shown on the LCD.



♥ Set Up Your Profile

The Medicare Lifesense Body Analysis Scale supports multiple users (Up to Eight). You may follow below instructions to assign User ID and set up your own profile, including Gender, Stature, and Age.

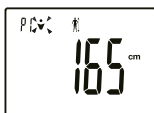
1. Assigning User ID

- With batteries correctly installed, touch the “SET” key to enter setting mode.
- The system will request User ID selection first. As pictured on the right, “1” blinks. The operator may touch the function key ▲ or ▼ to select User ID among U1 to U8.
- Touch “SET” key to confirm User ID.



2. Setting Gender

- After confirming User ID, the system will divert to Gender setting.
- As pictured on the right, the portrait icon blinks. The operator may touch the function key ▲ or ▼ to select Gender. (Male/Female/Male Athlete/Female Athlete)
- Touch “SET” key to confirm Gender.

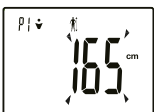


Athlete Mode:

An athlete is defined as an adult who is involved in intense physical activity of approximate 12 hours per week and who has a resting heart rate of approximately 60 beats per minute or less.

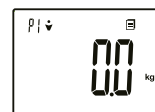
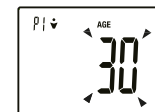
3. Setting Stature

- After confirming Gender, the system will divert to Stature setting.
- As pictured on the right, the digits “165” blink. The operator may touch the function key ▲ or ▼ to increase or decrease the numeral.
- You may touch and hold the function key ▲ or ▼ for fast changing the numeral.
- Touch “SET” key to confirm Stature.



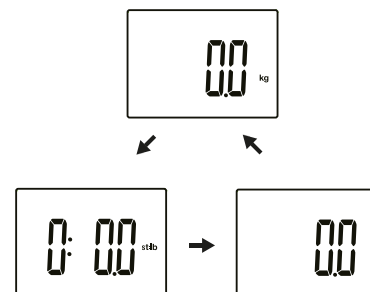
4. Setting Age

- After confirming Stature, the system will divert to Age setting.
- As pictured on the right, the digits “30” blink. The operator may touch the function key ▲ or ▼ to increase or decrease the numeral.
- You may touch and hold the function key ▲ or ▼ for fast changing the numeral.
- Touch “SET” key to confirm Age.
- When the LCD displays “0.0kg”, you may start measuring.



♥ Select Measurement Unit

With batteries correctly installed, press “UNIT” key in the back of the scale to select measurement unit. The default measurement unit is “kg”. You may press “UNIT” key to choose among kilogram, stone and pound.



♥ Initialising Your Scale

1. Press the platform centre and remove your foot.
2. "0.0" will be displayed.



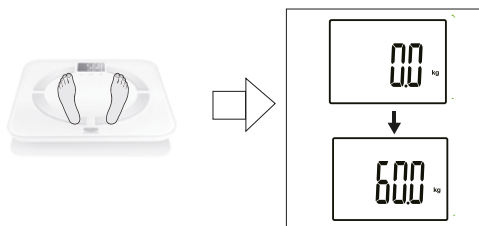
3. The scale will switch off and is now ready for use.
This initialisation process must be repeated if the scale is moved.
At all other times step straight on the scale.

♥ Weight Only Operation

Your Medicare Lifesense Body Analysis Scale will operate as a conventional weight - reading scale. No special programming steps are required.

Once the scale is initialized, as previously described, you may simply step on the scale to measure your current weight. For only weight reading.

1. Position the scale on a flat, hard surface. Carpeted or uneven floors may affect accuracy.
2. Step onto the scale platform and remain still while the scale computes your weight.
3. The scale will display your weight value.
4. The scale will automatically turn off after a few seconds.



Note: The weight value won't be saved in the scale, and won't be transmitted to the APP.

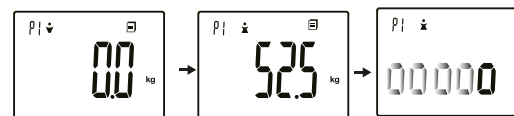
♥ First Measurement

- Please process the user setting before your first measurement.
(Refer to [Set Up Your Profile](#) for more details)

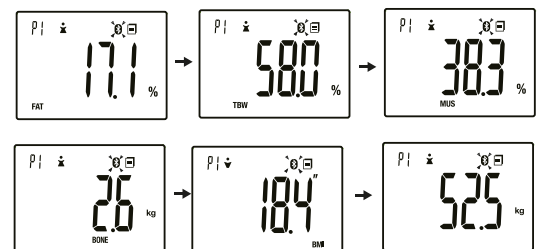
STEP 1: Step on the platform barefooted.



STEP2: Stand still and the weight data will be locked with the unit stop blinking. Keep full contact with the conductors until the LCD stop displaying moving "0".



STEP 3: The measuring results will be displayed sequentially three times: Body Fat, Total Body Water, Muscle Mass, Bone Mass, Weight, and then turn off.



* If it fails to complete the analysis, the LCD will only display the weight data.
(To find out the solutions, please refer to [Troubleshooting](#) for more details.)

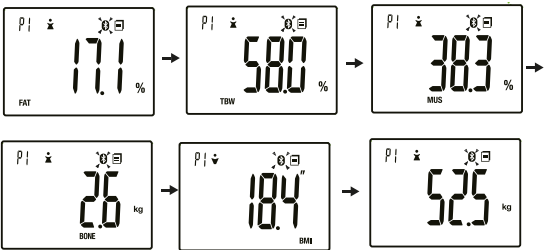
- When your scale is successfully paired with your smartphone and the Bluetooth is ON, Medicare Lifesense Body Analysis Scale will process data transmission instead.
(Please refer to [Data Transmission](#) for more details.)

♥ Daily Measurement

- With original SENSE ON patent technology, the Body Analysis Scale will switch on as you step on the platform barefooted.
- Stand still and keep full contact with the conductors until the LCD stops displaying moving “0”.



- According to the analysis results, the system will automatically identify the possible User ID with most similar history records. Then the measuring results will be displayed sequentially three times and then turn off.



- When the system finds out two or more users with similar history records, it will notify you to choose between, for example, P1 and P2. You may press ▲ key for P1 or ▼ key for P2. The measuring results will then be sorted into the User ID you selected and displayed sequentially three times.







- If it fails to identify the possible User ID, the LCD will only display the weight data.
(To find out the solutions, please refer to [Troubleshooting](#) for more details.)
- When your scale is successfully paired with your smartphone and the Bluetooth is ON, the Body Analysis Scale will process data transmission instead.
(Please refer to [Data Transmission](#) for more details.)

♥ Data Transmission

- With Body Analysis Scale successfully paired-up with your smartphone, the measurement data will be transmitted to your mobile via Bluetooth.
- ONLY when the measuring results are attached to a specific User ID will it be transmitted to your mobile after measurement.




- The symbol  will disappear after successful data transmission, and you may check your personal health data stored in your smartphone.
- If the data transmission fails, the symbol  will remain. The pending measurement data will be temporarily kept in the scale and transmitted to your smartphone when next measurement is complete.

	Successful Bluetooth Connection
	Data transmitting to wireless wellness system: -If SUCCEED, the symbol disappears; -If FAIL, the symbol remains.





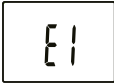
CAUTION

- Interference may occur in the vicinity of equipment marked with the following symbol . And the Body Analysis Scale may interfere vicinity electrical equipment.
- To enable the data transmission function, this product should be paired to a Bluetooth 4.0 end.

How to mitigate possible interference?

1. The range between the Body Analysis Scale and the Bluetooth end should be reasonably close, from 1 meter to 10 meters. Please ensure no obstacles between the Body Analysis Scale and the Bluetooth end so as to obtain quality connection.
2. To avoid interference, other electronic devices (particularly those with Bluetooth transmission / Transmitter) should be kept at least 1 meter away from the Body Analysis Scale.

♥ Error Prompt

Error	Description	Solution
	Overload. The device will power off.	Stop using this scale for measurement.
	Low Battery. The device will power off after about 4s.	Replace all four batteries in the same time. Please purchase the authorized batteries for replacement.
	Failure of pairing up your scale with your smartphone.	Please check below items: -Bluetooth is ON. -App Collector is ON. -Both devices are within the transmission distance of Bluetooth.

♥ When Measuring ...

Problem	Root Cause	Solution
Abnormal measuring results: - Too high; OR - Too low; OR - Huge difference between two recent measurement.	Incorrect posture	Please step on the platform barefooted and stand still.
	The device is located on the soft ground such as a carpet OR on a rugged surface.	Please place the device on a flat, hard surface.

Problem	Root Cause	Solution
Abnormal measuring results: - Too high; OR - Too low; OR - Huge difference between two recent measurement.	Either your hands or your feet are too dry.	Wipe your feet with a damp cloth, keeping them slightly damp when starting measurement.
No display on LCD when the device powers on.	Batteries not yet installed.	Install the batteries. (Please refer to Insert the Batteries)
	Worn batteries.	Replace all four batteries at the same time. Please purchase the authorized batteries for replacement.
CANNOT proceed to analyze body fat, total body water, muscle mass and bone mass.	Step onto the platform wearing socks or shoes.	Please keep barefooted during the measurement, and keep full contact with the electrodes as well.
	The system cannot identify the possible User ID with most similar data.	Please assign a User ID following the instruction in Set Up Your Profile .
	The user fails to select the User ID from what the system found.	Please assign a User ID following the instruction in Set Up Your Profile .
The device powers off.	Low battery.	Replace all four batteries at the same time. Please purchase the authorized batteries for replacement.

♥ When Data Transmitting ...

Problem	Root Cause	Solution
Data transmission failed.	Bluetooth is OFF.	Turn ON the Bluetooth via Settings.
	The App is OFF.	Press the icon to turn ON your app.
	Out of range of Bluetooth transmission.	Place your smartphone closer to the scale.
	None of the user ID is assigned.	Please assign a User ID following the instruction in Set Up Your Profile .

♥ Specifications

Product Name	Body Analysis Scale Wireless
Dimension	Scale: 321x321x23.5mm (Approximately)
Net Weight	Approximately 1.98kg (Excluding the dry cells)
Display	Digital LCD
Measurement Unit	Kilogram / Stone/ Pound
Measurement Range	5kg to 180kg / 0st: 11lb to 28st: 5lb / 11lb to 397lb
Division	0.1kg / 0.2lb
Accuracy	5-50kg: ±0.3kg; 50-100kg: ±0.4kg; 100-150kg: ±0.5kg; 150-180kg: ±0.7kg;
Working Environment	Temperature: 5 °C to 40 °C Humidity: 15% RH to 93%RH Atmospheric pressure: 70kPa to 106kPa
Storage Environment	Temperature: -20 °C to 60 °C Humidity: ≤93% RH Atmospheric pressure: 50kPa to 106kPa
Power Source	6V (Four AAA-size Batteries)
Turn on Method	SENSE ON technology
Auto-OFF	About 10 seconds while showing 0.0 About 15 seconds when the weight is locked About 15 seconds when the weight data is unstable
Accessories	1. Four AAA-size batteries 2. User Manual
Mode of Operation	Continuous Operation

About the Accuracy of This Product

- This product passes strict inspection before delivery and therefore its accuracy is guaranteed by the manufacturer. Please refer to the above table for the descriptions on accuracy.
- This product is specially designed for body fat analysis as well as weight measurement. It should NOT be used by anyone during the process of transaction for verification of goods' weight.

♥ Maintenance

When carrying out usual maintenance, please ensure practice of the following Do's and Don'ts:

- DO use a dry soft cloth to wipe the dust.
- DO use a wet soft cloth, dipped into water and wrung out, to wipe the dirt. Then use a dry soft cloth to dry up the device.
- DON'T wash the device with water or immerse it in water.
- DON'T use propellant, abrasive or other chemicals to wipe the dirt in avoidance of discolor or malfunction.
- DON'T disassemble this device. If you have any problems, please contact Fleming Medical. (Please refer to Warranty for contact information)
- Do not dispose of batteries in fire. Batteries may explode or leak. Remove the batteries if the scale will not be used for a long period.

♥ Warranty

- Fleming Medical Ltd. warrants its products free of defects in materials and workmanship in normal use for a period of TWO years from the date of retail purchase.
- This warranty does NOT cover damages caused by misuse or abuse, including but not limited to:
Failure caused by unauthorized repairs or modifications;
Damage caused by shock or drop during transportation;
Failure caused by improper operation inconsistent with the instructions stated in this user manual;
Malfunction or damage from failure to provide the recommended maintenance;
Damage caused by improper use of power supply.
- Should this device require maintenance (or replacement at our option) under warranty, please deliver the original package to FLEMING MEDICAL LTD. Please return the store receipt (with the retail purchase date) and a note with reasons to return on it as well.

FLEMING MEDICAL LTD
FLEMING MEDICAL LTD
Corcanree Business Park, Dock Road, Limerick, Ireland.
Corcanree Business Park, Dock Road, Limerick, Ireland.
Tel: +353 (0)61 304660
Fax: +353 (0)61 304660
Website: www.flemingmedical.ie
Website: <http://www.flemingmedical.ie>

♥ Health Tips - About Body Fat

Human body is made up of, amongst other things, a percentage of fat. Body fat is vital for a healthy, functioning body, protects vital organs, helps regulate body temperature, stores vitamins and helps the body sustain itself when food is scarce. However, too much body fat or indeed too little body fat will damage to your health. It is difficult to gauge how much body fat we have in our bodies simply by looking at ourselves in the mirror.

This is why it is important to measure and monitor your body fat percentage. Body fat percentage gives you a better measure of fitness than weight alone—the composition of your weight loss could mean you are losing muscle mass rather than fat—you could still have a high percentage of fat even when a scale indicates 'normal weight'.

The table as follows may be used as a guide:

Table of Body Fat Level (Unit: %)

a) The body fat percentage (%): 5%-60%/0.1%

Standard for Men

Standard for Women

Rating	Age					Rating	Age				
	20-29	30-39	40-49	50-59	60+		20-29	30-39	40-49	50-59	60+
low	<13	<14	<16	<17	<18	low	<19	<20	<21	<22	<23
Normal	14-20	15-21	17-23	18-24	19-25	Normal	20-28	21-29	22-30	23-31	24-32
Moderately High	21-23	22-24	24-26	25-27	26-28	Moderately High	29-31	30-32	31-33	32-33	33-35
High	>23	>24	>26	>27	>28	High	>31	>32	>33	>34	>35

♥ Health Tips - About Body Water

Body water is the single most important component of body weight. It represents over half of your total weight and almost two thirds of your lean body mass (predominantly muscle). Water performs a number of important roles in the body:

All the cells in the body, whether in the skin, glands, muscles, brain or anywhere else, can only function properly if they have enough water. Water also plays a vital part in regulating the body's temperature balance, particularly through perspiration.

The combination of your weight and fat measurement could appear to be 'normal' but your body hydration level could be insufficient for healthy living.

The table as follows may be used as a guide:

Table of Body Water Level (Unit: %)

b) The body water percentage (%): 43%-73%/0.1%

	BF % RANGE	OPTIMAL TBW % RANGE
Men	4 to 14%	70 to 63%
	15 to 21%	63 to 57%
	22 to 24%	57 to 55%
	25 and over	55 to 37%
Women	4 to 20%	70 to 58%
	21 to 29%	58 to 52%
	30 to 32%	52 to 49%
	33 and over	49 to 37%

♥ Health Tips - About Muscle Mass

According to the American College of Sports Medicine (ACSM), lean muscle mass may decrease by nearly 50 percent between the age of 20 and 90. If you do nothing with it you're losing muscle and increasing fat. It is also important to know your muscle mass % during weight reduction. At rest, the body burns approximately 110 additional calories for each kilo of muscle gained. Benefits of gaining muscle mass include:

- Reversing the decline in strength, bone density and muscle mass with aging
- Maintenance of flexible joints
- Guide weight reduction when combined with a healthy diet.

The table as follows may be used as a guide:

Muscle Mass Percentage

Men	Approximately 40% of total body weight
Women	Approximately 30% of total body weight

♥ Health Tips - About Bone Mass

Regular exercise and a balanced diet can help maintain healthy bones. Like muscle, bone is a living tissue that can respond to exercise by becoming stronger. For most people, bone mass peaks in their thirties. Then people begin to lose bone. Regular exercise can help prevent that loss.

Calcium and vitamin D, good sources of which are dairy products, green leafy vegetables and fish, contribute to healthy bones.

The bone mass readings given by this product are an estimation of the amount of bone in your body. Those with osteoporosis or low bone densities may not get accurate estimations. If you have any concern regarding your bones please consult your doctor timely.

The table as follows may be used as a guide:

Bone Mass Percentage

The average bone mass percentage for both men and women is between 4 to 5%.

♥ Health Tips - About BMI

Maintaining proper weight is essential to healthy living. Obesity has been linked to a higher risk of heart disease, diabetes and some forms of cancer. The Body Mass Index (BMI) is the most widely accepted measurement of weight according to health professionals. The Analyzer will calculate your BMI on your height and weight.

The table as follows may be used as a guide:

Height (inches)	Normal						Overweight						Obese					
	Body Weight (pounds)																	
58	91	96	100	105	110	115	119	124	129	134	138	143	148	153	158	162	167	
59	94	99	104	109	114	119	124	128	133	138	143	148	153	158	163	168	173	
60	97	102	107	112	118	123	128	133	138	143	148	153	158	163	168	174	179	
61	100	106	111	116	122	127	132	137	143	148	153	158	164	169	174	180	185	
62	104	109	115	120	126	131	136	142	147	153	158	164	169	175	180	186	191	
63	107	113	118	124	130	135	141	146	152	158	163	169	175	180	186	191	197	
64	110	116	122	128	134	140	145	151	157	163	169	174	180	186	192	197	204	
65	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210	
66	118	124	130	136	142	148	155	161	167	173	179	186	192	198	204	210	216	
67	121	127	134	140	146	153	159	166	172	178	185	191	198	204	211	217	223	
68	125	131	138	144	151	158	164	171	177	184	190	197	203	210	216	223	230	
69	128	135	142	149	155	162	169	176	182	189	196	203	209	216	223	230	236	
70	132	139	146	153	160	167	174	181	188	195	202	209	216	222	229	236	243	
71	136	143	150	157	165	172	179	186	193	200	208	215	222	229	236	243	250	
72	140	147	154	162	169	177	184	191	199	206	213	221	228	235	242	250	258	
73	144	151	159	166	174	182	189	197	204	212	219	227	235	242	250	257	265	
74	148	155	163	171	179	186	194	202	210	218	225	233	241	249	256	264	272	
75	152	160	168	176	184	192	200	208	216	224	232	240	248	256	264	272	279	
76	156	164	172	180	189	197	205	213	221	230	238	246	254	263	271	279	287	
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
Body Mass Index																		

♥ EMC Guidance

- 1. MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the ACCOMPANYING DOCUMENTS.
- 2. Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies can affect this equipment and should be kept at least a distance d = 3,3 m away from the equipment. (Note. As indicated in Table 6 of IEC 60601-1-2:2007 for ME EQUIPMENT, a typical cell phone with a maximum output power of 2 W yields d = 3,3 m at an IMMUNITY LEVEL of 3 V/m)