

### **Leicestershire Nutrition & Dietetic Services**

# Medical Devices Competency Statement Calculating Body Mass Index (BMI) in Adults

### **SELF-ASSESSMENT**

Surname:	Forename(s):	
Job title/Designation:	Line Manager:	
Department / Base:	Extension number:	

### Self- Verification of competence is undertaken by assessment against the following statements:

- Responsibility for competency remains with the individual, so if you are in any doubt regarding your competence to perform this measurement, you should seek further training.
- To perform the measurement you must follow instructions below before considering yourself to be competent.
- If you are not competent, inform your Line Manager for further training and repeat self-verification by completing a new form.

## To be able to undertake this self-assessment you must first be competent in measuring height and weight (see weight and height self-assessment competencies)

- 1. Obtain the patient's weight in kilograms (Kg), using approved scales. If it is not possible to weigh the patient a recalled or estimated weight should be used.
- 2. Measure the patient's height in metres (m). If it is not possible to obtain an accurate height a recall height should be used.

An estimated height (via ulna length measurement please see BAPEN MUST Tool online for more information) should only be used if it is not possible to measure the patient or obtain a recall height accurately.

3. To calculate the BMI the following calculation should be used:

$$\frac{\text{Weight in Kg}}{\text{(Height in m)}^2}$$
 = BMI in Kg/m<sup>2</sup>

For example, for a patient weighing 70kg with a height of 1.73m:

Calculate height in  $m^2$ : 1.73m x 1.73m = 2.99m<sup>2</sup>

 $70\text{kg} \div 2.99\text{m}^2 = 23.4 \text{ Kg/m}^2$ 

4. BMI can also be calculated using a BMI chart:

#### LEICESTERSHIRE NUTRITION AND DIETETIC SERVICE - SEPTEMBER 2008 BODY MASS INDEX READY RECKONER FOR ADULTS

Height (ft/in)

Weight (kg) Height (m) x Height (m) Kev" BMI25-29.9 BMI 35-40 BMI >40 BMI 118.5-24.9 Underweight Overweight Obese Obese Obese (Class II) (Class I) (Class III)

CLASSIFICATION OF OVERWEIGHT AND OBESITY IN CHILDREN

The Child Growth Foundation Body Mass Index Percentile chart (2) should be used to identify overweight and obese children:

Overweight: BMI >/= 91st centile Obese: BMI >/= 98th centile

To Calculate BMI:

weight (st / lbs 5. To interpret the BMI the following table should be used:

Category	BMI	BMI Asian origin
Underweight	<18.5	<18.5
Healthy	18.5 - 24.9	18.5 - 22.9
Overweight	25 - 29.9	23 - 27.4
Obese Class 1	30 - 34.9	27.5 - 32.4
Obese Class 11	35 - 39.9	32.5 - 37.4
Obese Class 111	>40	>37.5

### **Statement**

I am able to perform the measurement & have taken into account my personal assessment of my competence with the measurement, I declare that:

I am competent to perform the measurement without further training.

Signature:	Date:			
I require further training before I can perform this measurement in a competent manner				
Signature:	Date:			

Pass this form to your manager to add to your personal records