

B1: PHYSIOLOGICAL INDICATORS

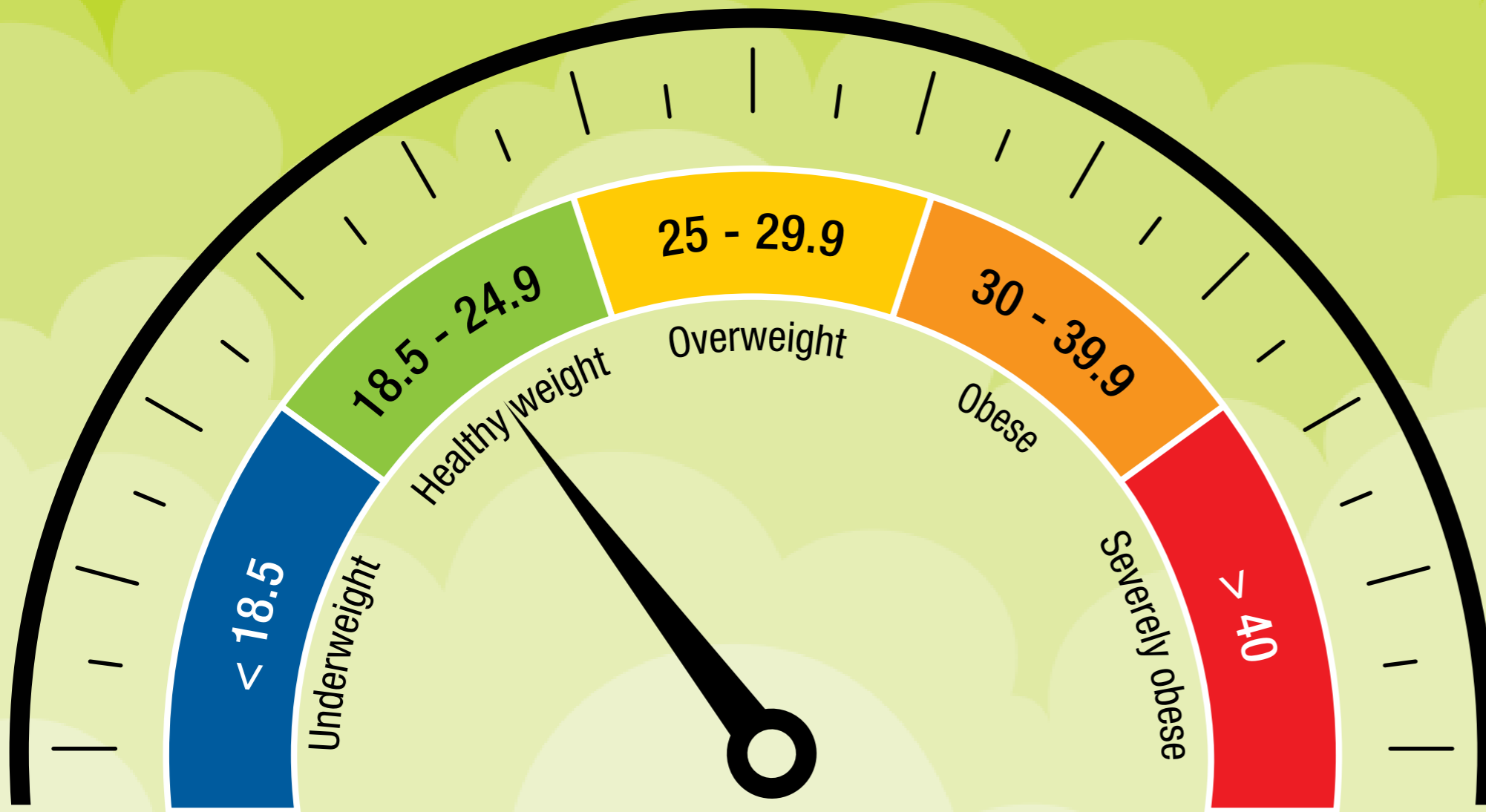
Physiological Indicator	Classification of data	Impact on current physical health (short-term risks)	Potential risks to physical health (long-term risks)
Resting heart rate (pulse)	<ul style="list-style-type: none"> • Normal range = 60 to 100 bpm • Heart rate may be temporarily elevated by stress or anxiety • The fitter you are the lower your resting pulse rate 	<p>Low pulse rate</p> <ul style="list-style-type: none"> • Can suggest the individual is very fit • When very low, can cause fainting, light headedness <p>High pulse rate</p> <ul style="list-style-type: none"> • Will become hot, sweaty and out of breath quickly when exercising leading to reduce exercise tolerance • Dizziness • Palpitations • Often linked to lifestyle e.g. smoking, drug use, alcohol consumption, low physical activity levels 	<p>Low pulse rate</p> <ul style="list-style-type: none"> • If extremely low may indicate heart failure <p>High pulse rate</p> <ul style="list-style-type: none"> • Damage to arteries causing raised BP and cardiovascular disease • Could suggest an underlying health issue e.g. cardiovascular disease • Increased risk of premature death
Resting heart rate (pulse)	<ul style="list-style-type: none"> • The faster the heart rate recovers after exercise, the fitter the person is 		
Blood pressure	<ul style="list-style-type: none"> • Low blood pressure = 90/60mmHg or lower • Ideal blood pressure = between 90/60mmHg and 120/80mmHg • Pre-high blood pressure = between 120/80mmHg and 140/90mmHg • High blood pressure = 140/90mmHg or higher 	<p>Low blood pressure</p> <ul style="list-style-type: none"> • Feeling dizzy, light-headed, fainting • Increased risk of falls, accident or injury • Tiredness • Cold and clammy skin <p>High blood pressure</p> <ul style="list-style-type: none"> • Headaches • Tiredness • Shortness of breath • Blurred vision 	<p>Low blood pressure</p> <ul style="list-style-type: none"> • Heart problems • Stroke <p>High blood pressure</p> <ul style="list-style-type: none"> • Cardiovascular disease • Stroke • Kidney disease • Vision loss • Vascular dementia
Body mass index (BMI)	<ul style="list-style-type: none"> • Underweight = below 18.5 kg/m² • Healthy weight = between 18.5 kg/m² and 24.9 kg/m² • Overweight = between 25 kg/m² and 29.9 kg/m² • Obese = between 30 kg/m² and 39.9 kg/m² • Severely obese = 40 kg/m² or above 	<p>Underweight</p> <ul style="list-style-type: none"> • Muscle weakness and anaemia • Weakened immune system • Weakened bones • Reduced energy and tiredness • Slow wound healing <p>Overweight/obese</p> <ul style="list-style-type: none"> • Physical discomfort • Reduced energy levels • Mobility problems • Difficulty accessing public spaces 	<p>Underweight</p> <ul style="list-style-type: none"> • Osteoporosis • Hormone imbalances • Periods stop • Decreased fertility <p>Overweight/obese</p> <ul style="list-style-type: none"> • Tye 2 diabetes • Cardiovascular disease • Stroke • Joint problems • Respiratory problems

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Physiological Indicator	Classification of data	Impact on current physical health (short-term risks)	Potential risks to physical health (long-term risks)
Resting heart rate (pulse)		Low pulse rate High pulse rate	Low pulse rate High pulse rate
Resting heart rate (pulse)		Low blood pressure High blood pressure	Low blood pressure High blood pressure
Blood pressure		Underweight Overweight/obese	Underweight Overweight/obese
Body mass index (BMI)			

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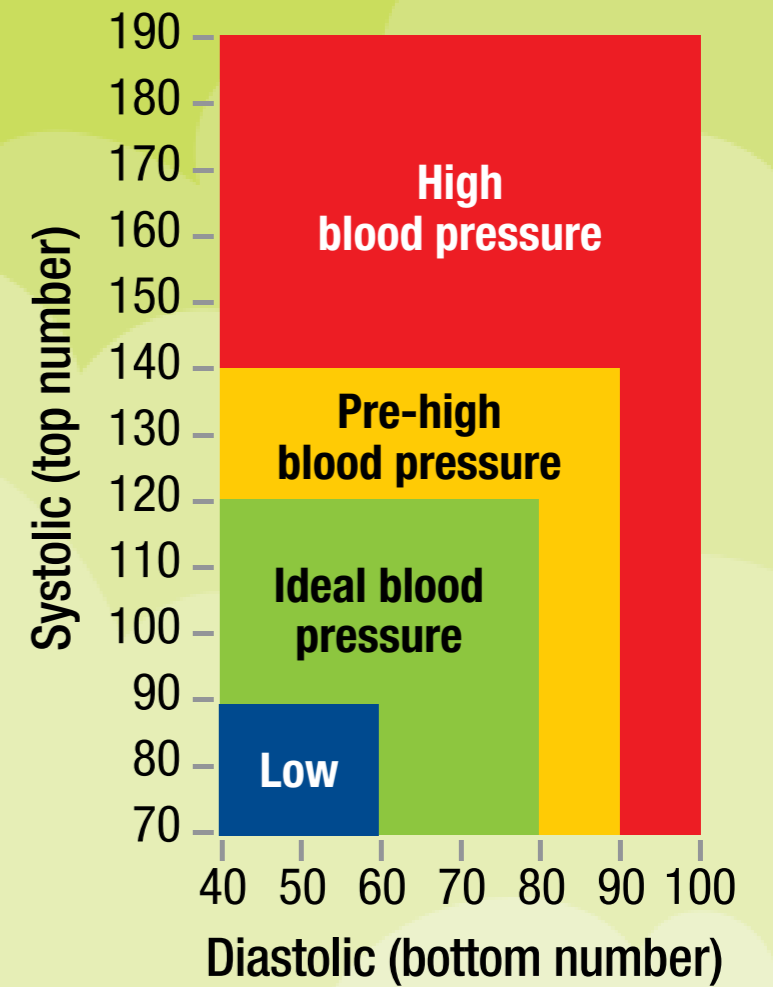
Body Mass index (BMI) Chart



$$\text{BMI} = \frac{\text{Weight in kg}}{\text{Height in m}^2}$$

Blood pressure chart

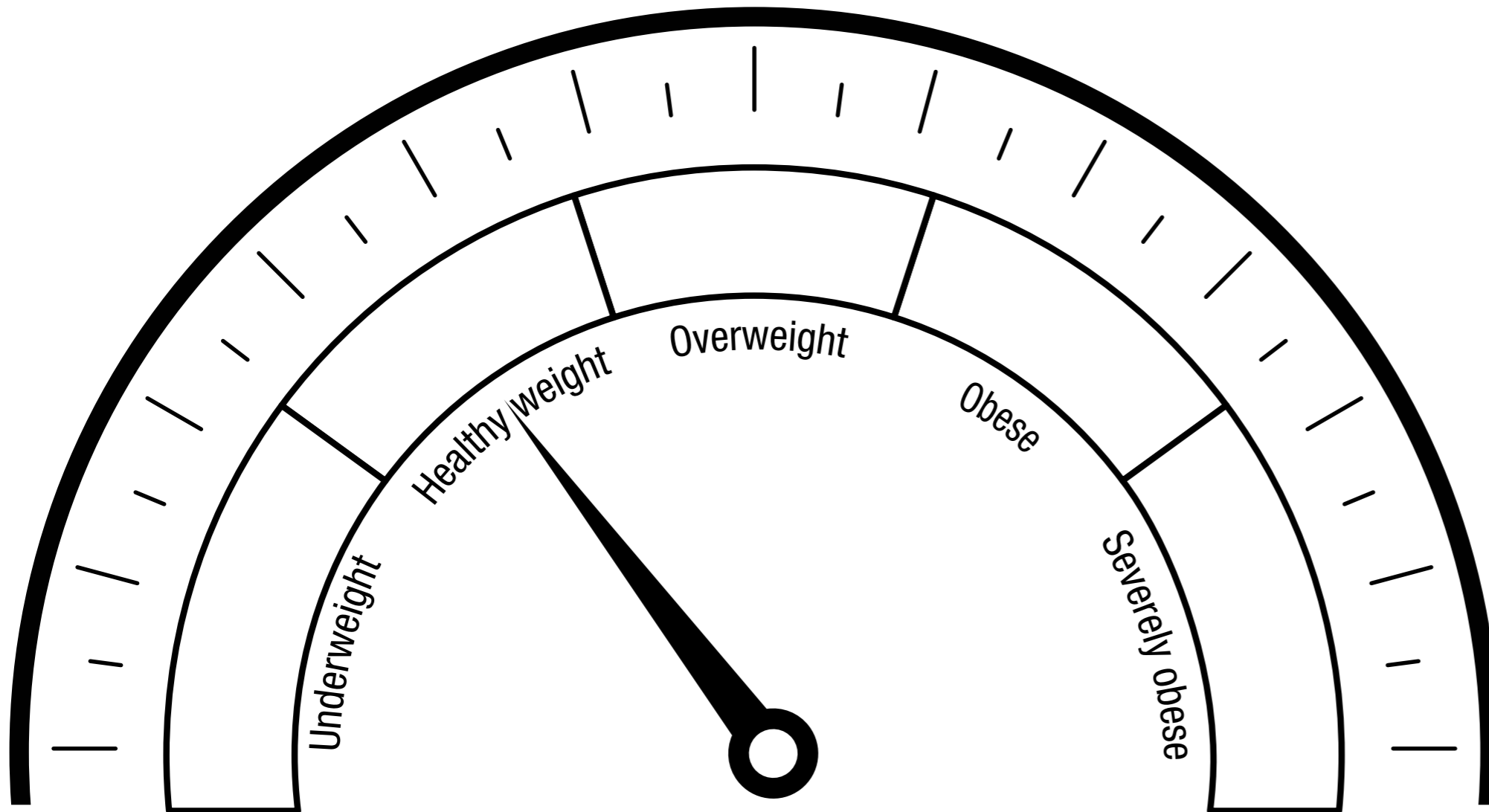
Blood pressure chart for adults



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Body Mass index (BMI) Chart

Fill in the BMI ranges

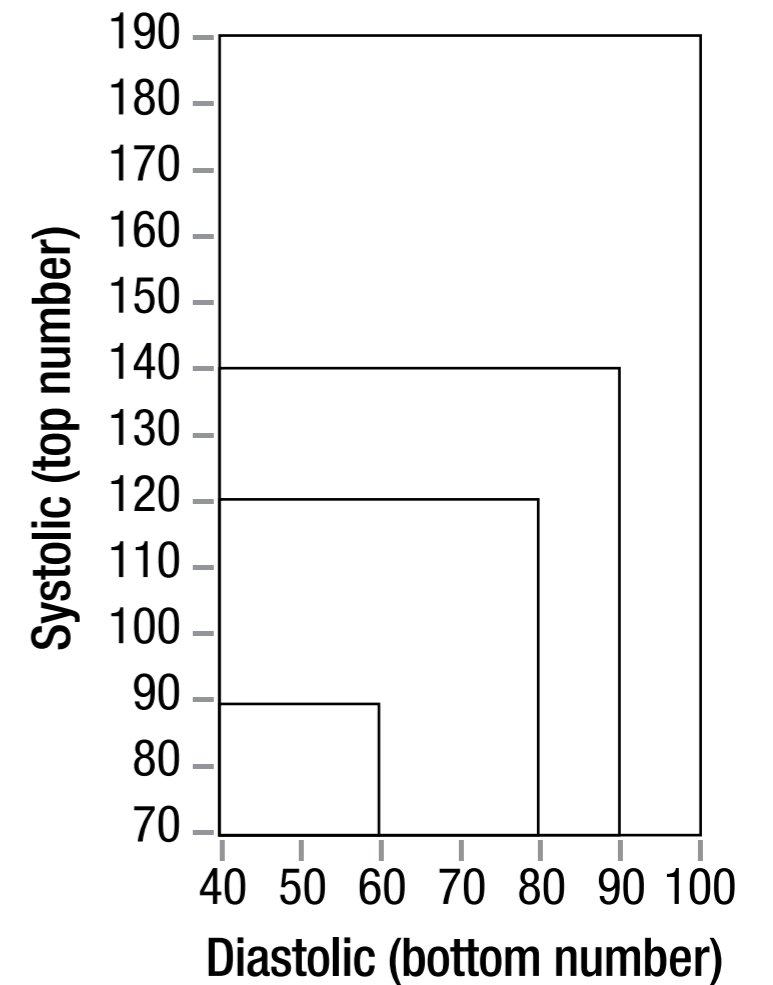


$$\text{BMI} = \frac{\text{Weight in kg}}{\text{Height in m}^2}$$

Blood pressure chart

Add the BP classification

Blood pressure chart for adults



B2: LIFESTYLE INDICATORS

Lifestyle indicators	Government Recommendation	Impact on current physical health (short-term risks)	Potential risks to physical health (long-term risks)
Nutrition	<p>Follow the Eatwell Guide</p> <ul style="list-style-type: none"> Meals based on Eatwell Plate Consume 5 portions of fruit and vegetables a day Limit fat, sugar and salt Drink 6-8 glasses of water a day Consume around 2000 calories daily for women and 2500 for men 	<p>Malnutrition</p> <ul style="list-style-type: none"> Weight loss, muscle weakness and anaemia Reduced energy and tiredness <p>Overnutrition</p> <ul style="list-style-type: none"> Weight gain Joint problems Sleep disturbance Shortness of breath <p>Good nutrition</p> <ul style="list-style-type: none"> High levels of energy Healthy weight maintenance 	<p>Malnutrition</p> <ul style="list-style-type: none"> Weakened immune system Weakened bones <p>Overnutrition</p> <ul style="list-style-type: none"> Risk of obesity Higher risk of type 2 diabetes Higher risk of cardiovascular disease <p>Good nutrition</p> <ul style="list-style-type: none"> Improved immune system Lower risk of illness and disease
Physical activity	<p>Adults (aged 19-64) each week should do:</p> <ul style="list-style-type: none"> At least 150 minutes moderate intensity activity, 75 minutes vigorous activity, or a mixture of both Strengthening activities on two days Reduce extended periods of sitting 	<p>Physical inactivity</p> <ul style="list-style-type: none"> Low energy levels Weight gain Loss of mobility Muscle and joint pain <p>Regular physical activity</p> <ul style="list-style-type: none"> Improves stamina, suppleness and strength Helps with weight management 	<p>Physical inactivity</p> <ul style="list-style-type: none"> Cardiovascular disease Obesity Blood clots <p>Regular physical activity</p> <ul style="list-style-type: none"> Lowers risk of chronic illness such as heart disease, type 2 diabetes, cancer and high blood pressure Improved immune system
Smoking	<ul style="list-style-type: none"> Do not smoke tobacco in any form Avoid spending time in smoky places (passive smoking) 	<ul style="list-style-type: none"> Bad breath Staining of fingers, nails & teeth Reduced sense of taste & smell Increased heart rate Smoker's cough 	<ul style="list-style-type: none"> Raises blood pressure Increases risk of heart disease and stroke Causes mouth, throat and lung cancers

Alcohol and substance misuse	<ul style="list-style-type: none"> It is safest not to drink more than 14 units of alcohol a week on a regular basis If you regularly drink as much as 14 units of alcohol per week, it is best to spread your drinking evenly over 3 or more days Aim to have several alcohol-free days Avoid the use of illegal substances (drugs) Take prescription medication as instructed and only when prescribed for you
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Eatwell Guide



Scan here to see a full screen version



Apply it:
 State the correct classification for a BMI of 33 kg/m² (1 mark)
 Obese
 What is the normal range for resting pulse rate? (1 mark)
 60-100 bpm

Apply it:
 Rabina loves exercise. She likes to spend her free time working out in the gym and she plays football for a local team. Explain how Rabina's physical activity means she has a low resting pulse rate. (2 marks)
 Exercise strengthens the heart muscle, so it can pump a greater volume of blood with each heartbeat. This means more oxygen gets delivered to the muscles, so the heart needs to beat fewer times per minute.

Apply it:
 John has high blood pressure. Explain two potential long-term risks of John's high blood pressure on his physical health (4 marks)
 High blood pressure can cause kidney disease, as it damages both the filtering units in the kidneys and the blood supply to the kidneys. He could have a stroke. High blood pressure can damage blood vessels causing blood clots to form resulting in a stroke.

B2: LIFESTYLE INDICATORS

Lifestyle indicators	Government Recommendation	Impact on current physical health (short-term risks)	Potential risks to physical health (long-term risks)
Nutrition	The Eatwell Guide:	Malnutrition Overnutrition Good nutrition	Malnutrition Overnutrition Good nutrition
Physical activity	Adults (aged 19-64) each week should do:	Physical inactivity Regular physical activity	Physical inactivity Regular physical activity
Smoking			
Alcohol and substance misuse			

Apply it:
 State the correct classification for a BMI of 33 kg/m² (1 mark)

What is the normal range for resting pulse rate? (1 mark)

Apply it:
 Rabina loves exercise. She likes to spend her free time working out in the gym and she plays football for a local team. Explain how Rabina's physical activity means she has a low resting pulse rate. (2 marks)

Apply it:
 John has high blood pressure. Explain two potential long-term risks of John's high blood pressure on his physical health (4 marks)