

## Body Temperature

Temperature is monitored and controlled by the thermoregulatory centre in the brain. The thermoregulatory centre contains receptors sensitive to the temperature of the blood. The skin contains temperature receptors and thermoregulatory centres in the thermoregulatory centre.

Body temperature is too high, blood vessels dilate (vasodilation) and sweat is produced from the sweat glands. Heat loss mechanisms cause a transfer of energy from the skin to the environment.

Body temperature is too low, blood vessels constrict (vasoconstriction) which means less blood flows through the skin, so less energy is lost to the surroundings. In addition, shivering stops and skeletal muscles contract which releases energy in the form of heat.

## Endocrine System

Endocrine system is composed of glands which secrete chemicals called hormones directly into the blood. The blood carries the hormones to a target organ where it produces an effect. Compared to the nervous system the effects are slower but last for longer. The pituitary gland in the brain is a 'master gland' which releases hormones into the blood to regulate body conditions. These hormones in turn act on other glands to stimulate other hormones to be released to bring about effects.

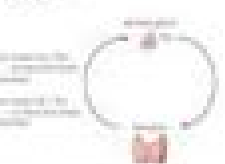


Endocrine gland	Role of the hormone
<b>Pituitary</b>	Controls growth in children Stimulates the thyroid gland to make the enzyme to control metabolism In women it stimulates the ovaries to produce and release eggs and more oestrogen In men it stimulates the testes to make sperm and testosterone
<b>Thyroid</b>	Controls the metabolic rate of the body
<b>Adrenal</b>	Controls the levels of glucose in the blood
<b>Adrenal</b>	Prepares the body for stressful situations (fight or flight response)
<b>Testes</b>	Controls the development of the male secondary sexual characteristics and is involved in the production of sperm

## Birth and Menstruation

Birth is controlled with negative feedback loop. If you are not pregnant, excited or pregnant your body needs to be like when you are not pregnant. Gonads located on top of the bladder release chemicals which cause a feedback loop, you are a conservative player for the rest of your life. Hormonal balance increases, most changed in the top part of the brain.

Endocrine glands in your neck also release hormones from your diet to use the hormone thyroidine. This contains substances used to regulate the blood glucose levels which are a result of negative feedback control. Having the thyroid gland and hormones produce their stimulating effect (T<sub>4</sub>).



## Unit 5: Homeostasis and Response

### Negative Feedback

Negative feedback systems exist to maintain a steady state. If a factor in the internal environment increases, changes take place to reduce it and restore the original level. If a factor in the internal environment decreases, changes take place to increase it and restore the original level.

Many hormones are involved in negative feedback systems including insulin, glucagon, female sex hormones and thyroxine.

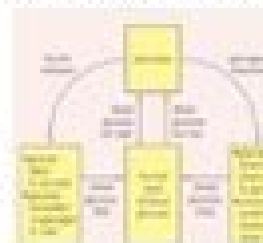


## Control of Blood Glucose Concentration

Blood glucose concentration is monitored and control act by the pancreas. It is essential that your cells have a constant level of glucose they need to respire.

### Insulin and the control of blood glucose levels

When you digest food, large amounts of glucose pass into your blood. Without insulin molecules, your blood glucose levels would rise significantly. You would be very hungry after a meal as you have no energy to eat! The pancreas is stimulated by the pancreas. If the blood glucose concentration is too high, the pancreas produces the hormone insulin that causes glucose to move from the blood into the cells. Insulin and glucose to be taken glucose is converted to glycogen for storage. When glycogen stores are full, any extra glucose is converted into fats and these will be only passed to other parts of the body.



### Glucagon and control of blood glucose levels

When your blood glucose concentration falls below the set range, the pancreas secretes another hormone called glucagon. Glucagon makes your liver break down glycogen, converting it back into glucose in the way. The stored glucose is then sent into the blood.

By using two hormones and the glucose stores in your liver, your pancreas keeps your blood glucose constant after food intake. It does this using negative feedback control, which has an inhibiting link between the two hormones.

### Type 1 Diabetes

Type 1 diabetes is a disease in which the pancreas fails to produce enough insulin. It is characterised by abnormally high blood glucose levels and is normally treated with insulin injections. Doctors can transplant a pancreas successfully, but the operations are difficult as there are not enough pancreas donors and risks. Scientists hope that eventually they will be able to genetically engineer beta islet cells from a patient's cells so that they work properly, then they will be able to transplant the pancreas with no rejection risk.

### Type 2 Diabetes

In Type 2 diabetes the body cells no longer respond to insulin produced by the pancreas. Type 2 diabetes is linked to obesity, lack of exercise and old age. It can often be treated without needing to inject insulin. Many people can reduce excess blood glucose levels by losing some extra weight, eating a balanced diet, losing weight and doing regular exercise. Doctors can also use drugs that help insulin work better in the body cells, help your pancreas make more insulin and/or the amount of glucose you absorb from your gut. If none of these work insulin injections will be needed.

## Reproductive Hormones

During puberty reproductive hormones cause secondary sex characteristics to develop. Oestrogen is the main female reproductive hormone produced in the ovaries. All puberty eggs begin to mature and are released approximately every 28 days. The released oestrogen, testosterone is the main male reproductive hormone produced by the testes and stimulates sperm production. Sexual hormones are involved in the menstrual cycle of a woman.

1. This is released by the pituitary gland. It makes eggs mature in their ovaries in the ovaries. It also stimulates the ovaries to produce testosterone including oestrogen.
2. Oestrogen is made and released by the ovaries in response to LH. It stimulates the lining of the uterus to thicken. High levels of oestrogen inhibit the production of more LH and stimulates the release of LH so more in the pituitary gland stimulates the release of a mature egg from the ovary. Once released, for many days, so hours before again.
3. Progesterone is secreted by the empty egg follicle in the ovary after ovulation. Progesterone stimulates the lining of the uterus so it is ready to receive a fertilised egg.



## Fertility Treatment and IVF

Lots of women - even women who've had sex for a long time - can't make enough LH to stimulate the maturation of the egg in their ovaries. Fortunately there are pills which can help the body which stimulates the egg in the ovary to mature and also triggers ovulation. Some women can't conceive through their own ovaries and IVF.

### The IVF process

They give women drugs that eggs to mature. They collect the eggs from the ovary and fertilise with sperm in the lab. They then develop the embryos and are inserted back into the uterus.



Pros of IVF	Cons of IVF
There is a high chance that you can be treated.	There is a high chance of multiple pregnancies.

## Contraception - Non-hormonal methods

The pill - prevents the ovaries from releasing an egg each month (ovulation). It also thins the mucus that is made for sperm or egg and thickens the lining of the womb, so there is less chance for fertilised egg implanting. When taken correctly, the pill is over 99% effective.

The patch - sticks on the skin of your belly or upper arm. It releases a hormone which stops you from getting pregnant.

The injection - The injection releases the hormone progesterone your bloodstream to prevent pregnancy.

## Contraception - Hormonal methods

Contraception - Hormonal methods - The pill - prevents the ovaries from releasing an egg each month (ovulation). It also thins the mucus that is made for sperm or egg and thickens the lining of the womb, so there is less chance for fertilised egg implanting. When taken correctly, the pill is over 99% effective.

Other methods (condoms) - Barrier methods such as the diaphragm, male condom, and female condom, can be used as methods of birth control. Barrier methods prevent sperm and egg from coming into contact.

Supply - Female sterilisation - either the fallopian tubes are cut or sealed to prevent the egg from reaching the sperm and thus fertilisation. A permanent procedure in a surgical procedure. It is not reversible. Only a small number of pregnancies.

# Biology Unit 5 Homeostasis Answers

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