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## Understanding Gancer

A SERIES OF SIMPLE EDUCATIONAL VIDEOS FOR THE GENERAL PUBLIC

Part 7: Diagnosis - Physical examination

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### What is physical examination?

This is the process of looking for signs to help with finding out what the problem is with the patient.



## Medical History

At first, your doctor will want to find out more information about the patient (you).

Family history

Lifestyle and Environmental factors: smoking? Alcohol? Diet?

Exercise? Work?

Prior or present illnesses: autoimmune disorders, viral infections, medications?

## What does physical examination involve?

LOOKING
FEELING
TAPPING
ISTENING

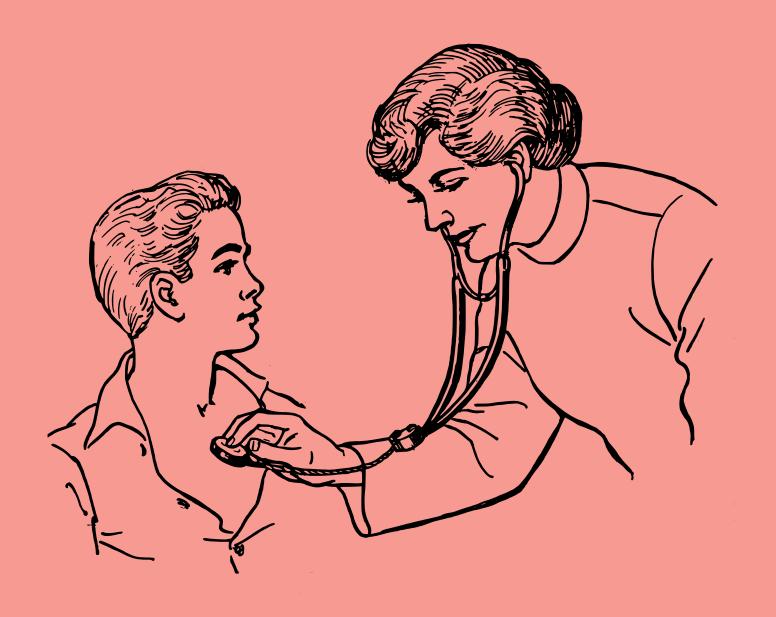


### First impressions

Bed-side Clues

Vital signs

Symptoms



## First impressions

As soon as the doctor sees you, he or she will look

to see whether you look:

Comfortable?

Well?

Nourished?

Hydrated?

Carrying any medications: inhalers, GTN spray etc

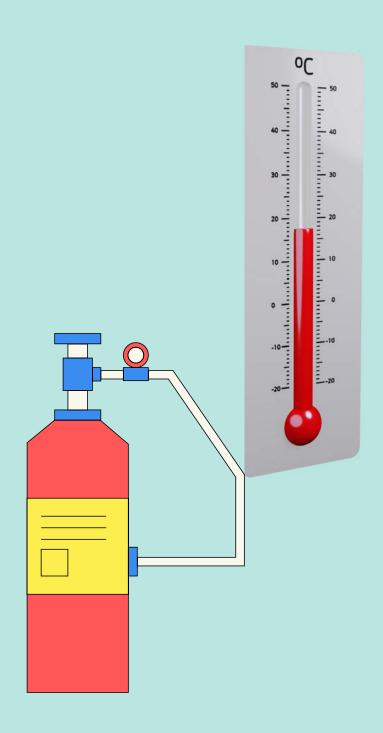
### Bed-side clues

This normally involves a chaperone present. The doctor will examine the area of the issue.

- Skin
- Lymph nodes
- Lungs
- Breasts
- Abdomen (Stomach)
- Testes
- Prostate
- Rectum
- Vagina



## Vital signs



**Temperature Blood pressure** Pulse Oxygen levels Breathing rate Blood glucose test



## Table 1. Vital signs: normal values in adults

Temperature	37°C
Heart rate	60-99
	beats per minute
Pulse	60-99
	beats per minute
Blood pressure	120/80mmHg
Respiratory rate	12-16
	breaths per minute
Oxygen saturation	95-100%
рН	7.3-7.5

### **Source: Nursing Times**

Age Group	Respiratory	Pulse	Blood
	rate	(per minute)	pressure
	(per minute)		(mm Hg)
Neonate	30-50	80-180	60/30
Infant	20-40	80-160	96/60
Toddler	20-30	80-150	98/64
School-aged child	16-24	75-110	106/68
Adolescent	12-20	50-100	114/74

# Source Higuet, A. & HachimiIdrissi, Said & Watelet, JB. (2016). At risk populations: from children to the elderly. BENT. 12. 139-154. s

### Some of the common symptoms



Tiredness?
Fever?

Night sweats?

Weight loss?

**Bowel movement?** 

Pain?

Vaginal bleeding?

Paleness of the skin?

Pigmentation of the skin?

Colour change of the skin (cyanosis)?



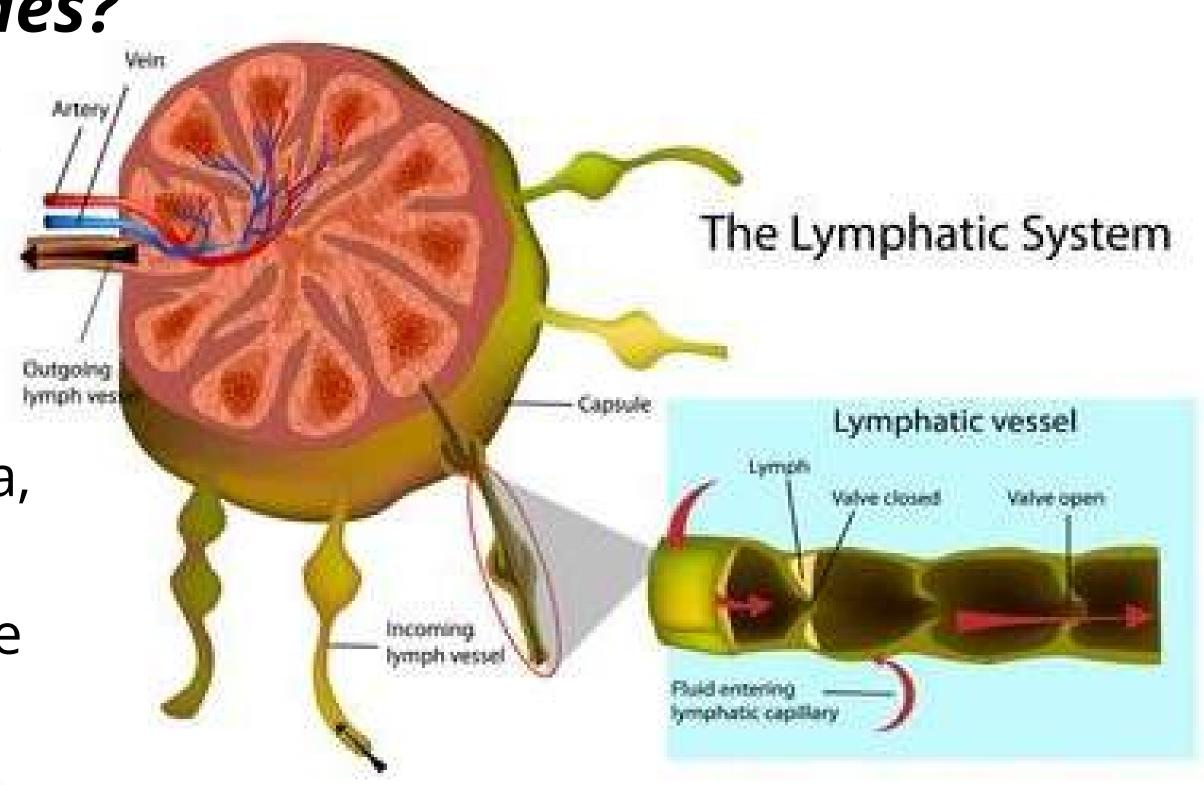




What are lymph nodes?

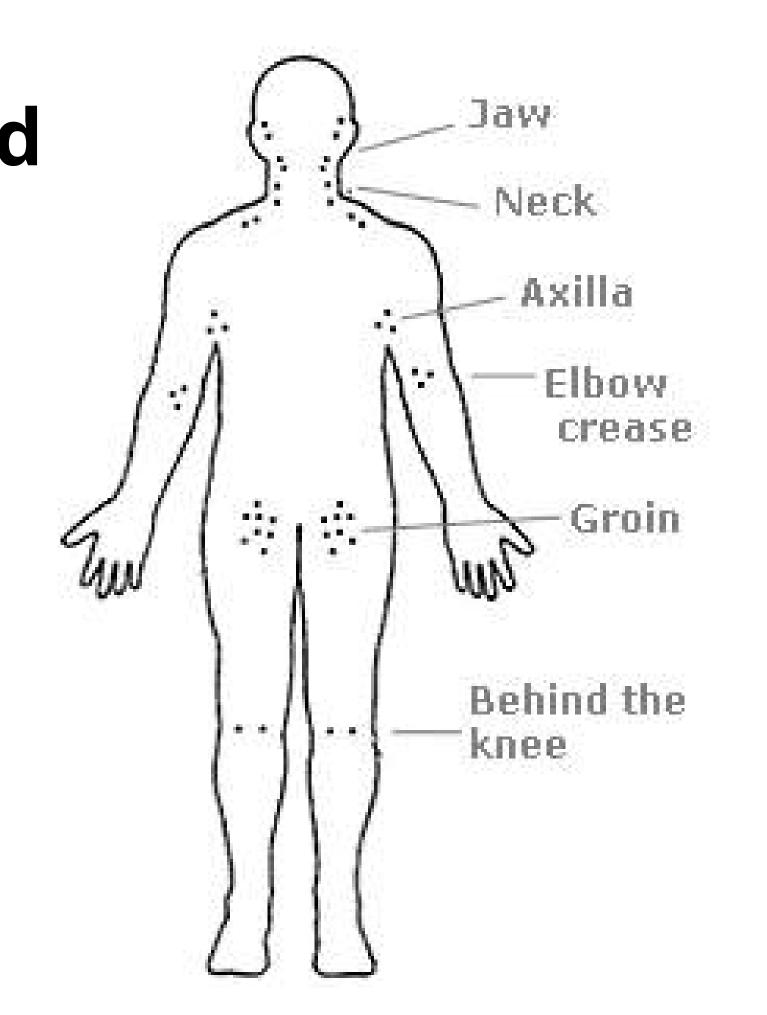
They are circular shaped balls that link together by tubes called lymphatic vessels.

They are filled with white blood cells that kill bacteria, viruses and other microorganisms that cause disease.



Lymph nodes are found in the neck, armpits, chest and abdomen (stomach and intestines) as well as other areas

Plymouth NHS trust.



Lymph nodes are checked using finger tips on:

Is it visible?

Site of node

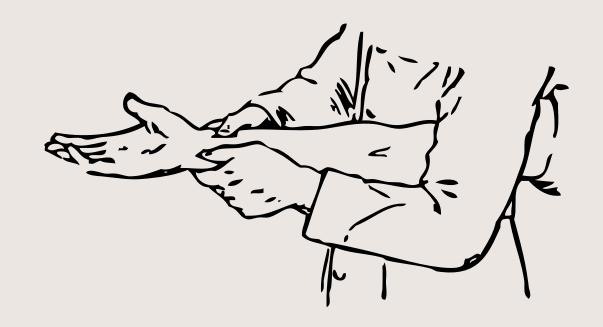
Number

Size

Is it fixed in position?

Overlaying skin?

Shape



Lymphadenopathy is the swelling of the lymph nodes

It can cause large liver and spleen and is a common symptom in blood cancers such as leukaemia and lymphoma.

Infection by bacteria or viruses causes:
The skin to become red and inflammed.
It feels soft/tender like rubber.
Painful.

Malignant tumours have hard lymph nodes that have a change in shape.



## Lump examination

Does the lump move with the skin?
(Epidermal/dermal)
Skin move with the muscle (Subcutis)
Does the lump move with muscle (muscle/tendon)?
Does the lump move in one direction
(tendon/nerve)?

Pins and needle?

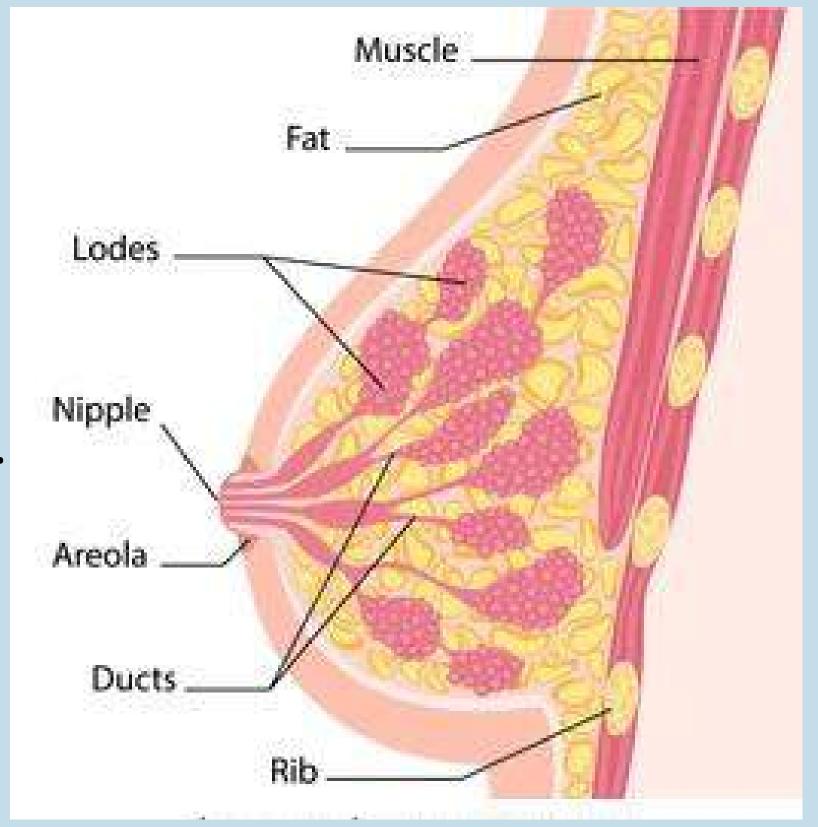
Does the lump not move? Immobile (bone)

### Examination of the breast

Milk is produced in the lobes that divide into smaller sections called lobules.

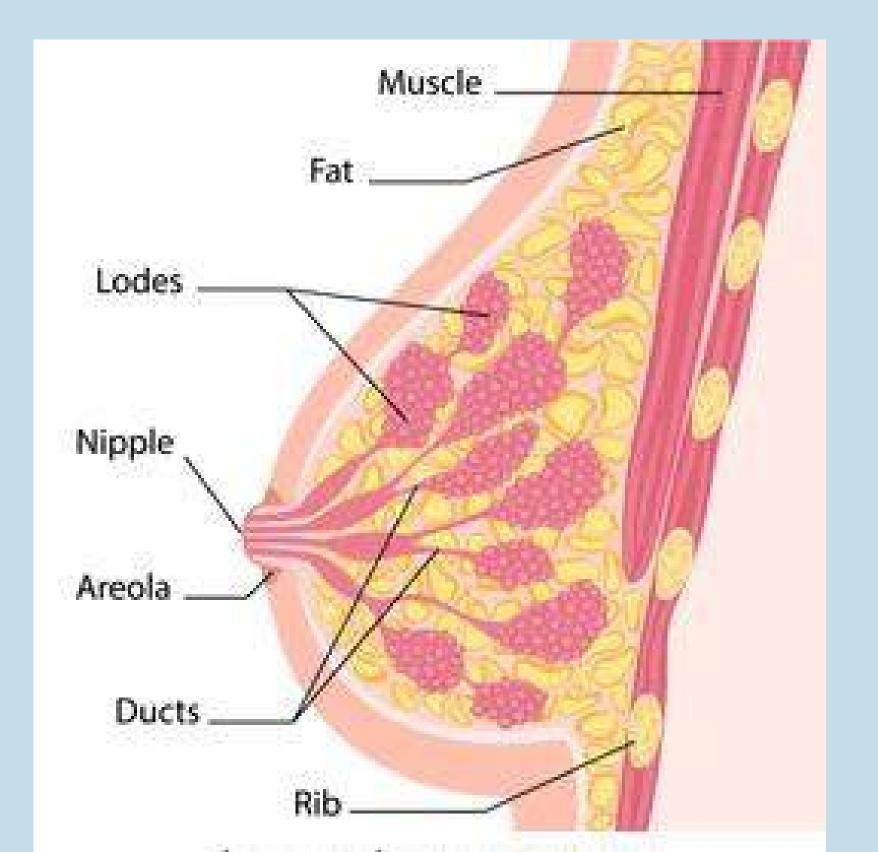
Milk travel through tiny tubes called ducts and connect to form larger ducts where they exit the skin from the nipple.

The darker area around the nipple is called the areola.



### Examination of the breast

The breast has connective tissue, ligaments, muscle, blood vessels, lymph nodes and vessels. They provide support and shape.



## Lump in the breast?

When have you noticed it?

Size?

Breast pain (mastalgia)?

Heat? Redness?

Skin change?

Discharge from nipple? Clear, white? blood?

Has the shape changed?

Is it to do with the menstrual cycle (period)?



Your doctor will also ask about your menstruation.

Age of first period? Regular period? How long your period is?

Age of menopause? Number of pregnancies? Last period?

Are you on hormonal therapy?

## This is all part of the examination to help solve the issue

Cancer is rare under 30 years old.

Cysts can occur between 30 and 50 years of age.

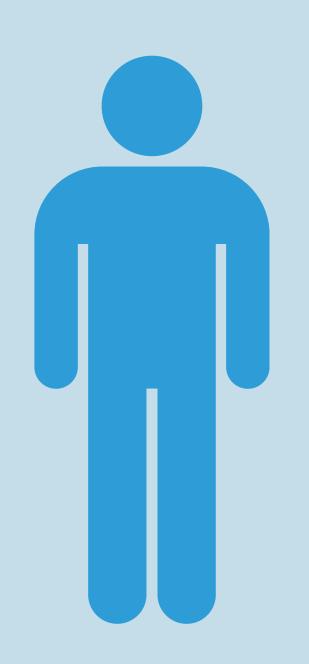
### Men and breast cancer

Less chance of male having breast cancer.

#### **Symptoms**

- Hard, painless lump in the skin or chest wall.
- Nipple discharge.
- Large breasts (gynaecomastia) this may be be due to fat tossue, hormonal drugs or anti-androgen drugs i.e cimetidine, spironolactone.

### Men and breast cancer



Physical examination of the breast and the genitals (male reproductive system)



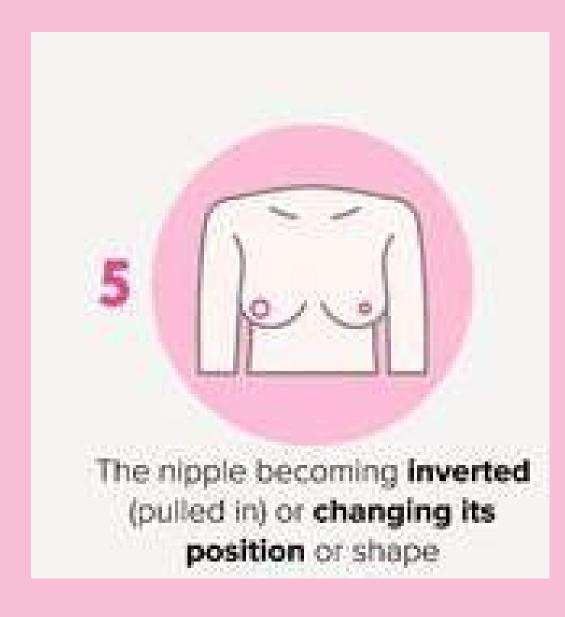
once a month TOUCH your breasts.

LOOK for changes.

CHECK with your GP.









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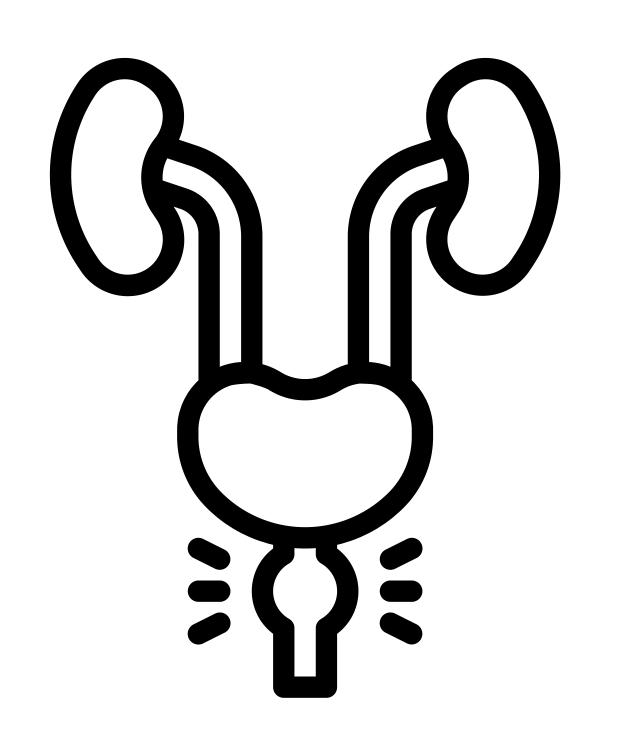
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The prostate is a walnut shaped gland between the bladder and penis in front of the rectum. The tube from the bladder to the penis is called urethra. The prostate secretes fluid that contains sperm.



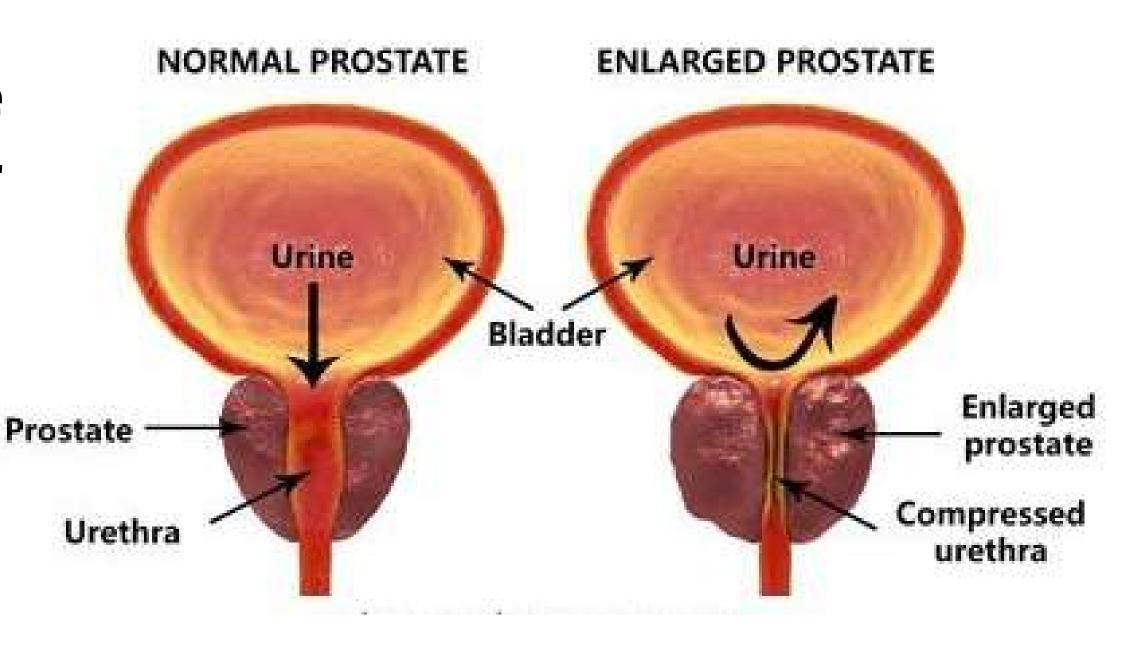
Digital rectal examination (DRE) is a physical examination done after consent and explaining the process like other physical examinations.

This is done in the G.P or hospital in front of the chaperone.



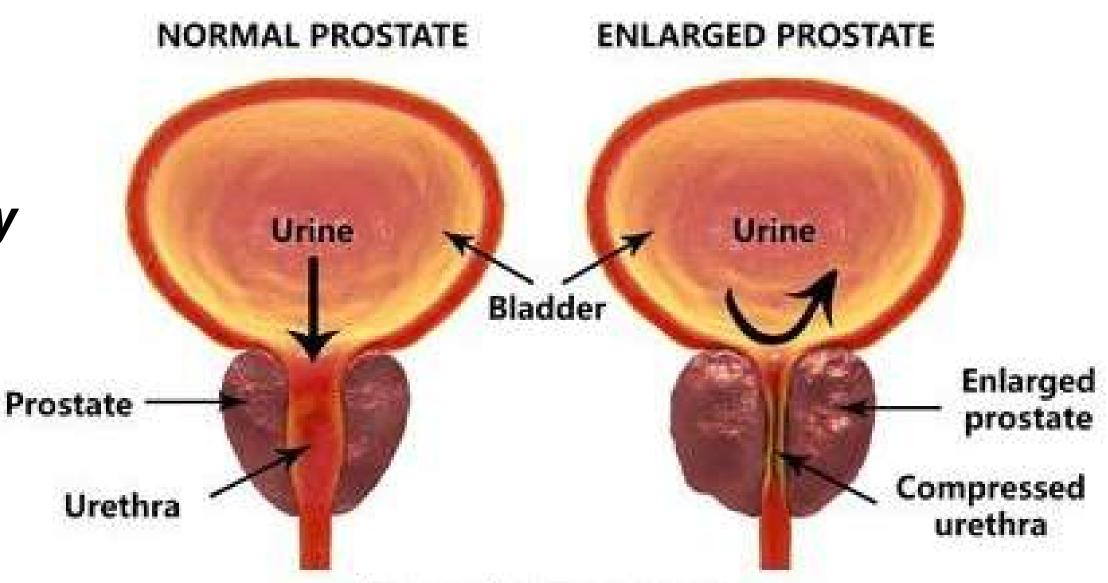
The doctor or nurse will check outside for poo, blood and mucus before the prostate area.

When looking at the prostate, the doctor will check through the wall of the back passage (rectum) for thickening, irregular shape and tenderness (soft)



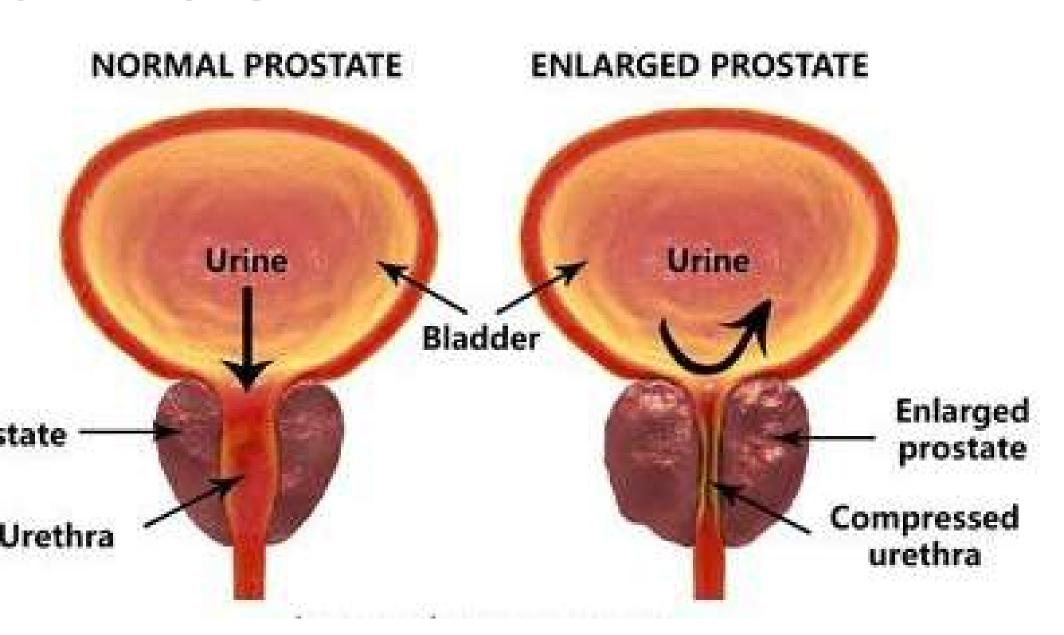
Normal prostate will feel smooth with slight rubbery texture.

It is 2 cm to 3 cm diameter.



If prostate cancer, there would be:

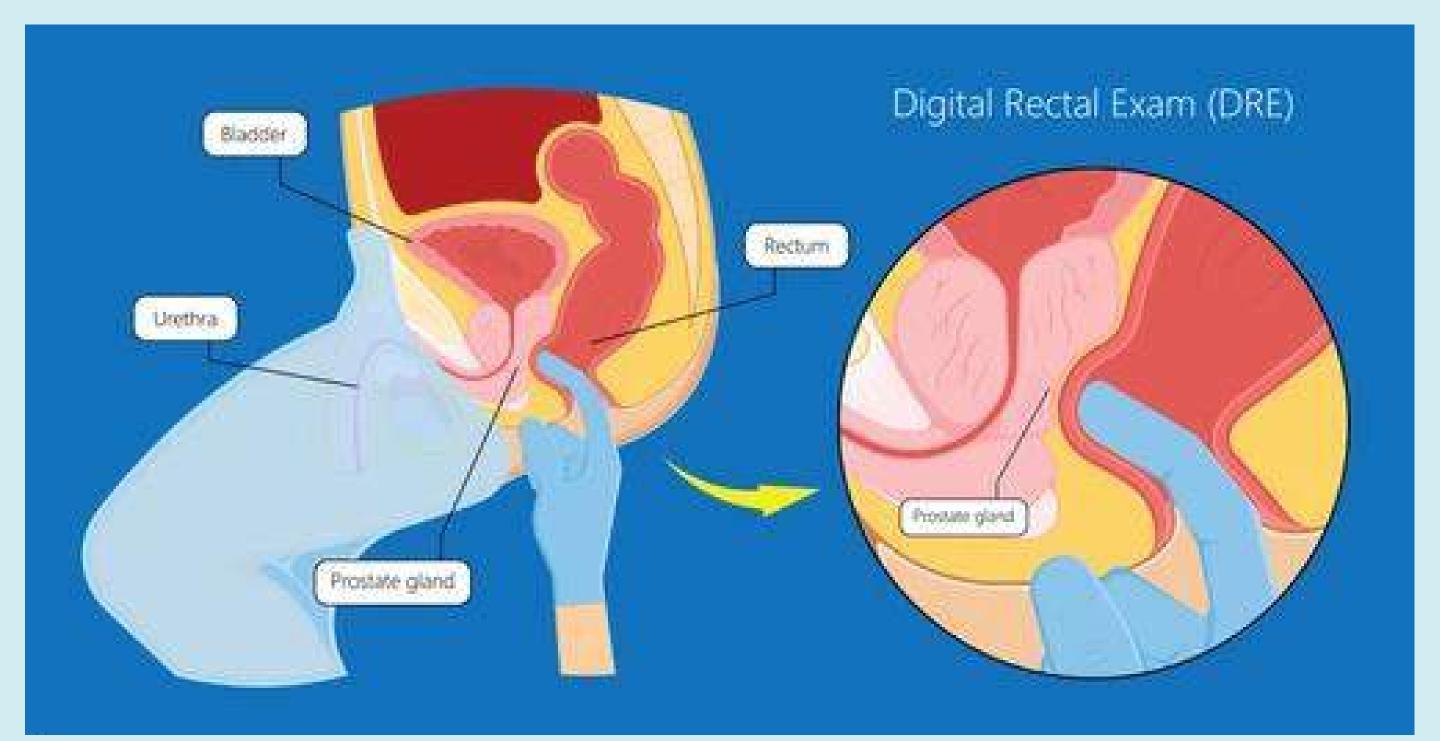
- loss of rubber texture.
- hardness
- thickening
- large prostate (benign Prostate prostate hypertrophy). Urethra



### DRE

- 1. Doctor or nurse will lie the patient on the side of the examination table.
- 2. The knees are move forward to the chest.
- 3. Using one finger that is gloved and with lubricating gel, it is added to the back passage.
- 4. Assessment of the muscle is done by the patient squeezing the finger.

### DRE



It is not a painful process nor take long and there is an urge to pee.

## Physical examination of the vagina



This is done to examine for uterine cancer.

### Melanoma

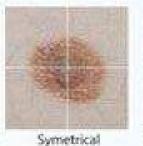
Checking the skin for size, symmetry, pattern, texture and other features is also done during physical examination for melanoma (skin cancer)

#### THE ABCDE SYSTEM OF MELANOMA DETECTION

The ABCDE criteria represent a commonly used clinical guide for early diagnosis of melanoma. The following features are considered suspicious:

appearance







Asymetrical

Border: A mole that has blurry and/or jagged edges



Smooth borders



Color: A mole that has more than one colour





Diameter: Moles with a diameter larger than a pencil eraser (6 mm or 1/4 inch)





Evolution: A mole that has gone through sudden changes in size, shape or colour





#### Skin examination for melanoma

Glasgow 7 point checklist for the skin examination is commonly used.

	Clinical features	Score
Major features	<ul> <li>Change in size</li> <li>Irregular shape</li> <li>Irregular colour</li> </ul>	2 for each
Minor features	<ul> <li>Largest diameter 7 mm or more</li> <li>Inflammation</li> <li>Oozing</li> <li>Change in sensation</li> </ul>	1 for each

A score of 3 or more is regarded as suspicious

Overall, there are many forms of physical examinations and this is based on the symptoms and history of the patient.



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Part 8: Diagnosis - Blood test
UPCOMING VIDEO RELEASING SOON!

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## Acknowledgements

Oxford Handbook of Clinical Examination and Practical Skills.

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Higuet, A. & Hachimi-Idrissi, Said & Watelet, J-B. (2016). At risk populations: from children to the elderly. B-ENT. 12. 139-154.

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