

Box 1.2: Points to be noted in past history.

- Major illness.
- Diabetes, hypertension and tuberculosis.
- History of allergy.
- History of previous surgery – Related or not related.
- Last menstrual period in women of reproductive age.

Personal History

This should include details regarding **bladder and bowel habits**. **Recent loss of appetite and weight** are **significant**. The patient should be asked about **smoking, consumption of alcohol and chewing of tobacco**. All these three habits are very common in most parts of our country. Questions regarding **exposure to sexually transmitted diseases and HIV** quite often elicit a **negative answer** which may **not always be reliable**.

Box 1.3: Points to be noted in personal history.

- Bowel and bladder habits.
- Loss of appetite and weight.
- Habits – Chewing pan, smoking and consumption of alcohol.
- Drug addiction.
- Exposure to STD – HIV (often not reliable).

Treatment History

Most patients coming to a **tertiary** or a **teaching hospital** would have had **some treatment earlier**. **Unless inquired into, the relevant information may not be forthcoming**. **Unfortunately, this aspect** of the

history is underestimated, with dire consequences in some patients.

Obstetric and Menstrual History

This should be asked for and recorded in female patients making the process of history taking complete. Thanks to the **time taken for this part**, the **confidence level** of the **patient** reaches a **high grade** and this makes **physical examination much easier**. One of the **primary reasons** for the **rapid increase in medical litigation** is the poor quality of history taking and physical examination, owing to **reduction in the time taken for eliciting the history** and completing the **physical examination**.

PHYSICAL EXAMINATION

Physical examination can be divided into **general, local, regional and systemic examinations**. This will **ensure that a comprehensive physical examination** is conducted in **every patient**.

General Physical Examination

The **first question** to ask oneself is does the patient appear to be in **distress**? If the answer is **positive**, the **rest** of the **examination** is to **be performed** in a **gentle manner**.

The **general part of the examination** consists of a brief **complete survey** of the patient. The focus is on the **build and nutrition**. On the **surgical side**

the **use** of a **rolled X-ray film** in the form of a **tube**. The light from a **pen torch** is **shone** on the swelling at one end and at a **point exactly** opposite, the transmitted light is **sought for** with this **tube**. If the fluid is clear, a pink glow is seen indicating **positive transillumination**.

10. Mobility: Mobility is basically classified as follows.

(a) **Intrinsic mobility:** Upward movement of a goiter with deglutition and downward movement of the liver with respiration are two examples for intrinsic mobility.

(b) **Extrinsic mobility:** The clinician tries to move the swelling in relation to the neighbouring structures. This examination is done in both horizontal and vertical directions. Mobility is **closely related** to the **anatomical plane** of the swelling. The terms used are free **mobility** (**fibroadenoma of the breast**), restricted **mobility** (**chronic inflammatory** swellings due to **fibrosis**) or fixed to the **deeper structures** (**advanced malignancy**).

(c) **Tree top mobility:** It is a **modification** of **restricted mobility**. When a **swelling** is large, the base may not move, but the top may show

some movement. This is **best demonstrated** with **large and bulky pancreatic tumours**. Pancreas, being a **retroperitoneal organ**, is fixed in the clinical sense. But **being a bulky tumour**, a small part may come **in contact** with the **left dome** of the diaphragm. Thus the **swelling shows** some movement with respiration. This is **manifest** when the **patient** is in the supine **position**. But when the **patient is shifted** to the right lateral **position**, this **movement** disappears. This is **comparable** to the top of a tree **moving** with a **strong breeze**.

11. Anatomical plane: Mobility and the **anatomical plane** are **inter-related**. For **examination purposes**, the **bone** is considered to be a **fixed structure**. A swelling may arise from the **skin**, **subcutaneous tissue**, **muscle or tendon**, and lastly **bone**. Swellings **arising** or fixed to the **bone** are totally immobile. Those **arising** or **attached** to the **skin** can **easily be identified**. The **overlying skin** **cannot** be lifted off the **swelling**.

Most of the **problems** arise in relation to **swellings arising** from either the subcutaneous tissue or the muscle and tendon. The **clinical tests** that are described to **distinguish between the two** are **based** on the **anatomical**

of **healthy granulation tissue**. Thus an ulcer cannot be **classified** as **healing** in the **presence** of this **isolated clinical finding**.



Fig. 1.9: Sloping edge of a healing ulcer with healthy granulation tissue at the floor.

An **undermined edge** is seen in a **tuberculous ulcer**. The skin **overlies** a **part of the floor**. A **probe** can be **inserted under the edge** to **demonstrate** this **sign**.



Fig. 1.10: Undermined edge of a tuberculous ulcer.

Raised and everted edges are the hallmark of a **malignant ulcer**. It is also described as **rolled out edges**.

Basal cell carcinoma has **raised and beaded edges**.

Punched out edges are seen in **ischaemic ulcers**. They are also **described** in **syphilitic ulcers**, which are extremely rare. A **punched out appearance** may be seen after a **debridement** has been done **surgically**.

- 3. Base:** The base is the **tissue** on which the ulcer **rests**. It could be formed by **subcutaneous tissue, muscle, tendon or bone**. The ulcer is **immobile** when the **base** is formed by the **bone**. The **mobility** of an **ulcer** is **restricted** if the **base** is formed by **muscle or tendon**, when that structure is put on **contraction against resistance**. The **clinical method** of examination is **similar** to that of a **swelling**.

Induration of the **base** is an **important finding** in a **malignant ulcer**. It is a **feeling of hardness** due to a **desmoplastic reaction** on the **part of the host** towards the **malignancy**. This is **best exemplified** in **squamous cell carcinoma**.

If the **bone** forming the **base** is **subcutaneous** (**venous ulcer in relation to the tibia**), it is

microcalcification, spiculation and architectural distortion are diagnostic of **malignancy**.

In patients with a **lump** proved as malignant, mammography is performed if **breast conservation surgery** is being planned. This is to rule out **multicentricity**, which is an **absolute contraindication** for **breast conservation**. Mammography of the **opposite breast** is performed in some patients to rule out the presence of **nonpalpable secondaries**.

Ultrasound:

Linear high-resolution probe 5-12 MHz is used to evaluate the **breast and axilla**.

1. The **primary role** of US is in the **diagnostic follow-up** of an **abnormality** detected in the **mammogram**, particularly in many **benign conditions**. It is used to further **evaluate masses** or **asymmetries**, and can very reliably differentiate a **solid mass** from a **cyst**.
2. But it is **less useful** in **asymptomatic patients**. However, if patient has a specific **complaint (lump, pain, discharge etc.)**, US can be focused on that **particular area** and the necessary data **may be obtained**. Hence it is a very **good adjunct** to **mammogram**.

3. It can evaluate the **axilla** that is **clinically negative** for **enlarged nodes**.
4. It is the **first line** of imaging in a pregnant woman or in one who is below 30 years of age, so that unnecessary irradiation may be avoided.
5. It is also used to provide **guidance** for **biopsies** and other interventions.

Tissue diagnosis:

In a patient with a **suspicious mammographic abnormality** or a **palpable breast mass**, the obligatory diagnostic technique is **biopsy**. A preoperative **cytological diagnosis of malignancy** is **mandatory** before the **management strategies** are **planned**.

Fine needle aspiration cytology (FNAC). FNAC has been used for **years** to evaluate **breast lesions**. The usual report in a **malignant lump** is an **infiltrating duct carcinoma**.

Advantages:

1. It can be **easily performed** and **quicker interpretation** of the results is possible as compared with a **core needle biopsy**.
2. **US-guided FNA** helps in **accurate placement** of the needle.