# Signs & Symptoms Minor illness or major disease?

## **Symptom**

- A clinical change in a person suggestive of disease perceived by that person.
- 'complains of .....'
- Several symptoms may present together to suggest a disease or exclude a disease.
- Indeed they may appear unrelated e.g. Breathlessness and swollen ankles in CHF.

#### **Examples**

- Cough
- Tiredness
- Aches
- Chest pains
- Breathless
- Indigestion

Symptoms are more general

## Sign

- A clinical change in a person, which may be observed by a clinician and indicate a disease.
- 'on examination ......'

## **Examples**

- Changes in skin (colour, marking) e.g. Jaundice suggests liver disease.
- Digital clubbing (fingers clubbed in lung/ hepatic disease).
- Heart murmurs.
- Sounds on listening to lungs: wheezes (rhonchi), crackles (crepitations) => indicative of CHF: wet lungs).
- Dullness to percussion of thorax (changes in sound on tapping): may suggest pneumonia.
- Obviously some overlap patient might notice digital clubbing.

### **Digital clubbing**



#### How about?

- Increased passing of urine symptom unless in hospital
- Halitosis (bad breath) more of a sign
- Ketone breath sign of diabetes
- Hypertension sign
- Palpitations symptom and sign
- Jaundice symptom and sign
- Itching symptom, can be due to a whole range of conditions
- Feeling faint symptom

Signs and symptoms may be trivial: reflecting either trivial or serious underlying disease.

## E.g. Cough

Cough in a 2 year old: viral infection

Cough in a 60 year old: lung cancer

Need to know history

## 2-year old with cough:

- Is it nocturnal? Might be asthma
- Is it productive? Might be bacterial chest infection
- Is it productive of vast quantities of sputum (colour/ with blood)? Might be bronchitis due to alveoli being dilated
- Is it a dry cough? Might be a viral infection

# 60-year old with cough:

- Have they ever smoked?
- Dry or productive?
- How long have they had it?

#### Case 1:

Cough of recent onset - viral infection!

#### Case 2:

Productive cough with green sputum of recent onset – acute bronchitis!

#### Case 3:

- Smoker
- Productive cough over many years
- Grey or sometimes green sputum and blood staining (haemoptysis => refer)
- Worse in winter (suggests chronic bronchitis with acute infections)

#### Case 4:

- Smoker
- Persistent dry cough
- Other signs which may include: coughing up blood, digital clubbing, pleural pain (in the chest area), weight loss, CNS changes including fits
- · Should arouse suspicion of cancer

#### Case 5:

- · Productive cough with blood
- · Weight loss
- Night sweats
- Should arouse suspicion of TB (tuberculosis)

#### Case 6:

- Cough
- Breathless at mild exertion or lying down in bed at night
- Might point to pulmonary oedema, due to left-sided congestive heart failure (cardiac asthma)

## **Chest pains**

- Often musculoskeletal (when no explanation!)
- Respiratory (e.g. Asthma)
- Gastric origin indigestion, reflux, oesphagitis
  - Relationship to food? (could make better or worse!)
  - Relieved by antacids? (peptic, gastric problem)
- Angina induced by exercise, emotion stress
  - Pains down arm? Pains radiating to jaw?
  - Relieved by rest
- Heart attack severe chest pains, not relieved by rest (call the ambulance)
  - Nausea?
  - Breathlessness?
  - Pains down arms, jaw?

## **Breathlessness**

- Congenital e.g. Hole in the heart
- Infection acute bronchitis, pneumonia
- Inflammatory asthma, chronic bronchitis
- Neoplastic lung cancer
- Haematological anemia
- Psychogenic panic attack
- Degenerative emphysema, fibrosis
- Cardiac myocardial infarction, LV failure
- Thromboembolic embolism
- Functional exercise, pregnancy, obesity
- latrogenic β-blockers, NSAIDs

# **Indigestion**

- · Could be 'acid stomach'/ dyspepsia
- Overeating
- · Reflux oesphagitis
- Peptic ulcer
- Stomach cancer (over 45 years raises suspicion => refer)
- · Cardiac origin?

# Role of the pharmacist

- To respond with advice and where necessary counter prescribe for 'minor' conditions which would respond to OTC (over the counter) medicines.
- Recognise potentially serious symptoms and refer to GP (General Practitioner) or A&E (Accident & Emergency).
- In general, the following should be referred:
  - Symptoms that are potentially serious
  - Persistent symptoms
  - Patients at risk

## **Special groups**

- Babies and children
- Elderly
- Diabetics
- Asthmatics
- · Pregnant or breast feeding
- Immunocompromised