Clinical Diagnosis & Investigations

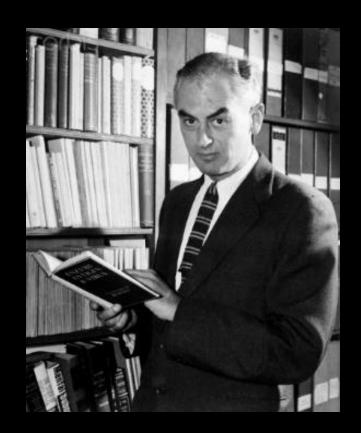
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Clinical Diagnosis & Investigations

Sir Peter Medawar

Hypothesis (under+ thesis) Is supposition of an idea

- Do we need to assess Pt.???
- No body is perfect
- Provisional diagnosis in few seconds
- Analyse your thought during history & examination



Clinical Diagnosis & Investigations

- Can we use computers or not?
- · GIGO

- Useful only if critical information entered
- Garbage In Garbage

Examination

- Relax environment
- Not in rush
- Try to relax your pt.
- If you find a sign confirm it

- Examine whole system
- Repeat examination before action
- Record your findings in full
- -ve as important as +ve

Diagnosis

- Signs & Symptoms reliable or not?
- Daunting declaration no disease

- Contradictory features
- Extra effort
- Text book picture rarely present

- Need to be extremely confident
- Look at joy & happiness
- Carefully selected investigations

Diagnosis Not Made

Do not rush for complex investigations

• Repeat clinical examination

 Productive method put aside previous notes

Right investigations at right time

Take a fresh start

- Not always possible to make diagnosis before action (Surgery)
- Every body has own way to take history

Selection of Investigations

- Sensitivity & specificity
- Sensitivity= No of cases of condition detected by a test/total no. of cases in population studied
- Specificity= No. of true negative results / total no. of negative results

- Simplicity (Air under diaphragm in erect chest)
- Safety--- Bowel perforation(Colonoscopy, Ba or CT ???)
- Cost (Liver Metastasis US or CT)
- Acceptability -Non invasive more acceptable
- Availability- Gold standard no ideal
- Routines & protocols
- Limitations & Complications

11/05/2020

Sequence & Timing of Investigations

Organization

Protocols

Do not order all investigations at same time

Written protocols

But do not be rigid AS WELL

Urgency

Do not rush – mistakes inevitable

Practical Use

 3. Radiological Investigations 4. Histopathology

Simple first

Incision biopsy

 Do we need expensive one or not **Excision biopsy**

Wedge biopsy

CT or contrast study

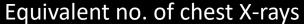
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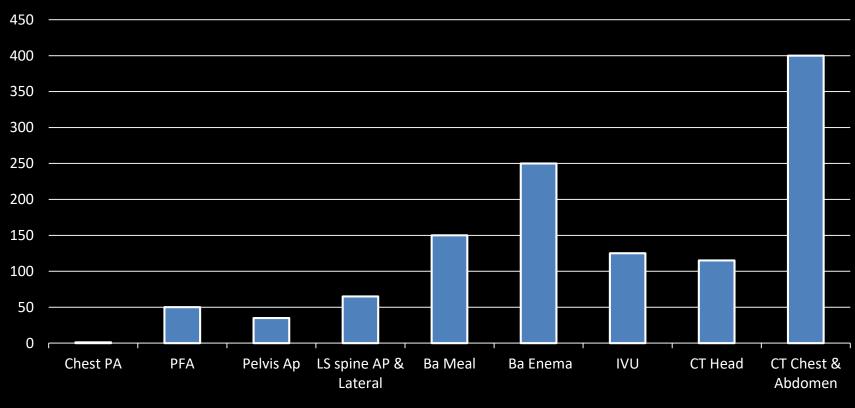
Imaging Techniques

- Radiology rapidly expanding
- Not substitute for clinical skills
- Very difficult for surgeon to be up to date
- Close relations very important
- Treat Patient Not X-rays

- Bear in mind cost & availability
- Do not base clinical decisions on radiology ONLY

Relative Dose of Common Surgical Requests





■ Equivalent no. ofchest X-rays

Ultrasound

 Use limited by structures as passage of waves obstructed

Highly operative dependent

Cannot give images of brain

 Bowel gas can obscure abdominal cavity & retroperitoneal structures

Radiology

CT Scan

Small time

Better image

Radiation

Interventions

MRI

Lack of ionizing radiation

Available

More expensive than CT

 In Implants cannot be used safely

Radiology Uses in Surgery

To aid diagnosis
 erect CXR - air under
 diaphragm

 Intervention to treat a disorder or complications – Biopsy, abscess, insertion of stents

- CT brain hematoma
- CT Colonography

 To guide a surgical procedure - fracture reduction

 Remember cost, effectiveness & safety

Thanks

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