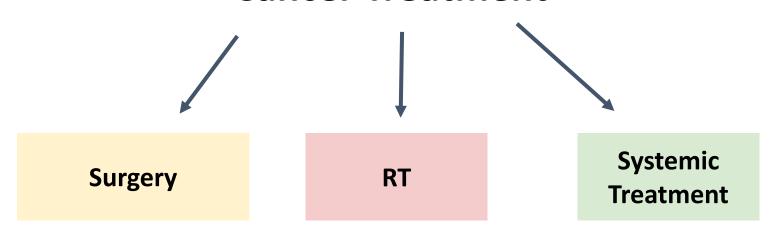
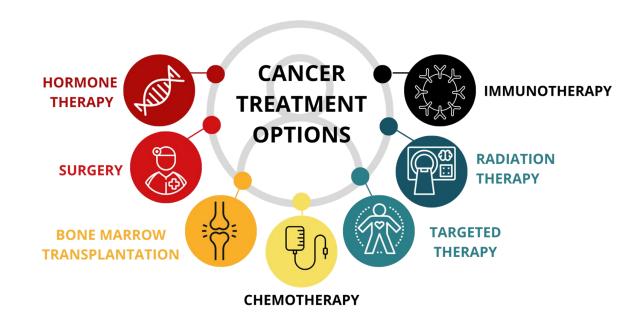
LUNG, THYROID, PROSTATE & CANCERS

Cancer Treatment



Multi-disciplinary approach

Every new diagnosis of cancer should be discussed at a multidisciplinary team meeting comprising surgeons, oncologists, radiologists and pathologists



Lung Cancer

RISK FACTORS

- Cigarette smoking
- Occupational
 - Asbestose
 - Uranium miners
- Smoke from cooking & heating
- Air pollution & diesel exhaust
- Radiotherapy
- Lung fibrosis
- COPD

PRESENTATION

- Cough
- Hemoptysis
- Chest pain
- Dyspnea
- Hoarseness
- Pleural effusion
- SVC obstruction
- Metastatic symptoms

Management

- Surgery, Radiotherapy, Chemotherapy single or a combination of options
- Small cell lung carcinoma Always poor prognosis

Thyroid Cancer

HOW BIG IS THE BURDEN

- Slow growing cancers
- 10 year survival rate is over 95%
- Treatment modalities are widely available
- Very low mortality (anaplastic <5%)
- Over diagnosis & over treatment is common
- Therefore guidelines do not recommend routine population screening

Risk factors

- Radiation exposure
- Family history
 - family history of Cowden syndrome/ FAP/ MEN 2

Clinical features of a suspicious nodule

- Recent rapid enlargement of a nodule
- Voice change
- Associated cervical lymphadenopathy

But most malignant thyroid nodules do not show these features in early stages

WORK UP

- 1. Imaging: basic USS
- 2. Pathology
- 3. Thyroid status: All patients need TSH levels

Thyroglobulin has no place in initial diagnosis

MANAGEMENT OF THYROID CANCER

- Mainstay of management is surgery
- Suppressive dose thyroxine should be started after surgery for

differentiated thyroid ca to prevent recurrences

Prostate Cancer

RISK FACTORS

- Age
- Ethnicity
- Family history

- Alcohol
- Smoking
- Obesity
- Physical Activity
- Prostatitis

PRESENTATION

- Majority asymptomatic
- At the time of diagnosis only 6% will have metastatic disease
- Symptoms are highly non specific
- LUTS/ hematuria/ hematospermia
- Bone pain/ pathological #/ urinary incontinence/ erectile dysfunction/ weakness
 can come with metastatic disease
- Slow growing with 5 year survival >95%

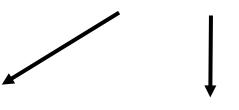
Digital Rectal Examination

- Prostate cancer might be felt as an irregular hard nodule on DRE
- May be multifocal as well
- Normal DRE doesn't rule out ca prostate
- Therefore DRE is not recommended as a screening adjunct

PROSTATE SPECIFIC ANTIGEN

- Highly non specific; can have altered values in many non malignant conditions
- No single threshold to define abnormal PSA value
- Age specific reference ranges or >0.75ng/ml increase of PSA over an year
- 5 alpha reductase inhibitors/ NSAIDS/ statins/ thiazides can give lower PSA values. Therefore further evaluation of PSA of patients on these drugs should have a lower threshold.
- Non malignant conditions BPH/ prostatitis/ UTI/ perineal trauma/ sexual activities

Prostate Cancer



Low Risk

Active
Surveillance
Other:
Brachythera
py
EBRT
Surgery

Intermediate

- Favourable Risk

Active Surveillance

Other:

Brachythera

ру

EBRT Surgery Intermediate -Unfavourable Risk

ADT + EBRT
Surgery

High Risk

ADT + EBRTSurgery

