MDT Co-ordinators conference

Wed March 3rd Renaissance Hotel Heathrow

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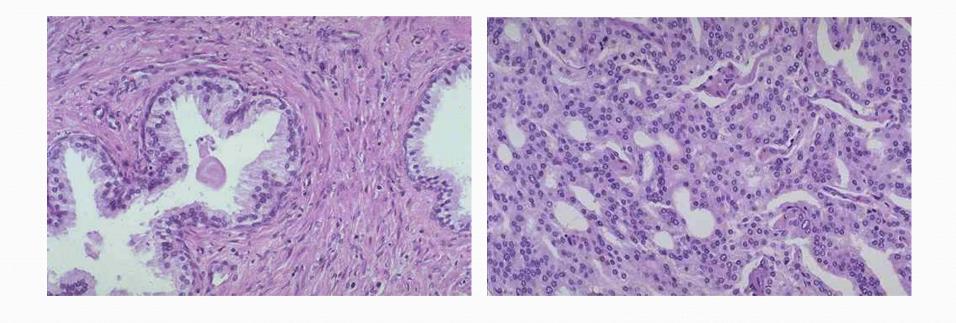
Prostate and bladder cancer

- What is it?
- How does it present?
- How do we make the diagnosis?
- How do we grade it?
- How do we stage it ?
- What are the treatment options in the MDT?

Prostate cancer

- Increasingly common with age
 - Familial inheritance in some
- Heterogeneous
 - [different tumours in the same prostate]
- Malignant transformation of prostatic glands
 - hence <u>ADENO</u>-carcinoma
 - ie gland forming

Normal and malignant prostate



Presentation

- [Symptoms]
- PSA testing
- Rectal examination
- Symptoms of metastatic disease
 - Bone pain
 - paralysis

Diagnosis

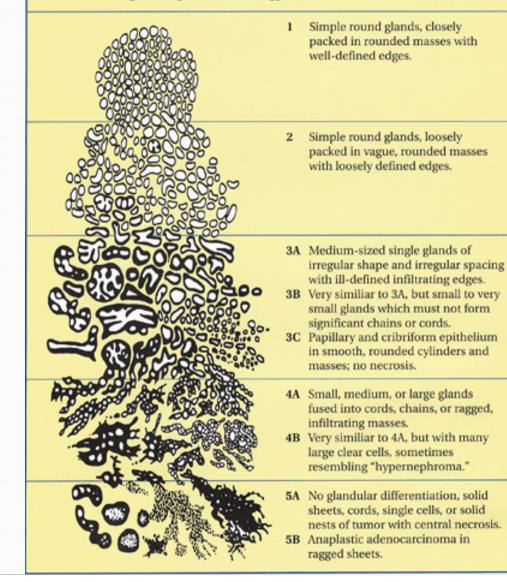
- Trans rectal biopsy under ultrasound [TRUS]
- Clinical picture + very high PSA

Grading of tumour [degree of malignancy]

- Gleason grade
- Dr. Donald F. Gleason, devised and, in 1966, first published the prostatic carcinoma grading system which bears his name.

Gleason Grading System

The Gleason Grading System is used to evaluate or "grade" prostate cancer cells obtained by needle biopsy. The cells are assigned a number between 1 and 5 — nearly normal cells are Grade 1 and the most abnormal are Grade 5. Then the scores of the two most common cell patterns are added together. Gleason scores range from 2 to 10. The higher the grade, the more aggressive the cancer.



Tiger or pussy cat?

- Can we distinguish a cancer that threatens a man from one that does not?
 - Possibly
 - No certainty
- Temptation to err on the side of caution

Staging [mapping]

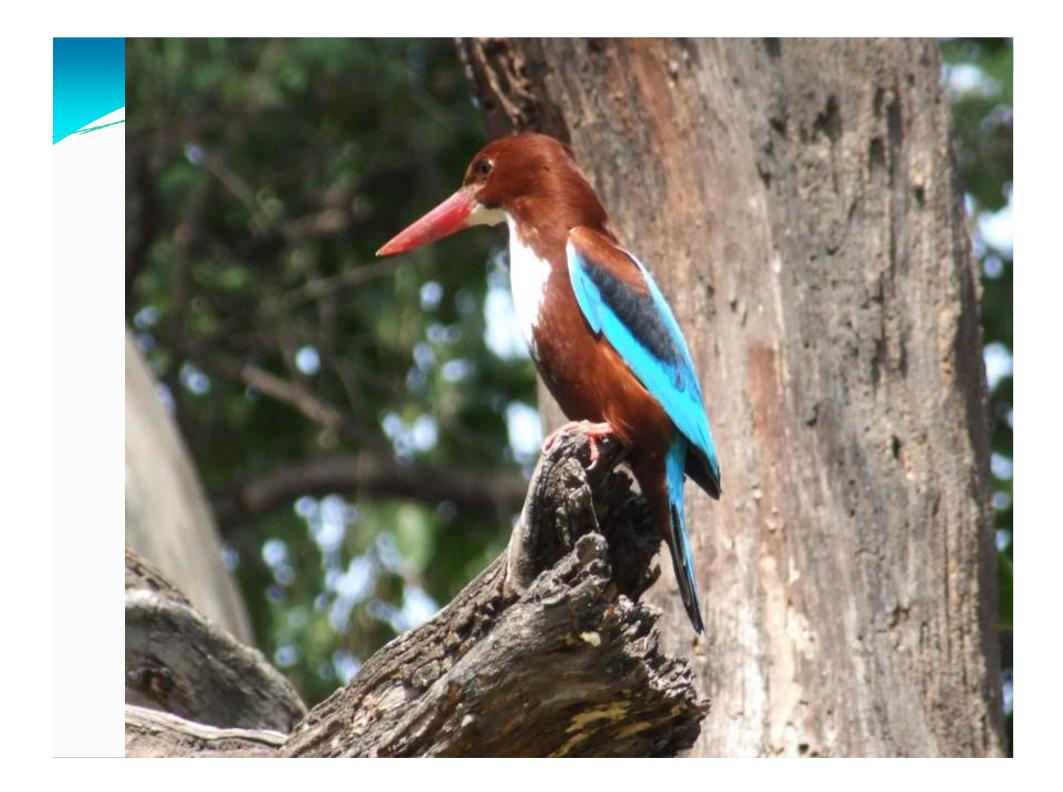
- Is the tumour localised to the prostate?
- Are there secondaries?
- Options:
 - None [PSA <10]
 - Cross sectional imaging [MRI / CT]
 - Bone scanning [radio isotope scan]

MDT process

- Review the clinical picture / history
- Co-morbidities
- Review histology [grade =/- stage]
- Review imaging
- Consensus on OPTIONS to put to patient
- Where treatment will be carried out and who by

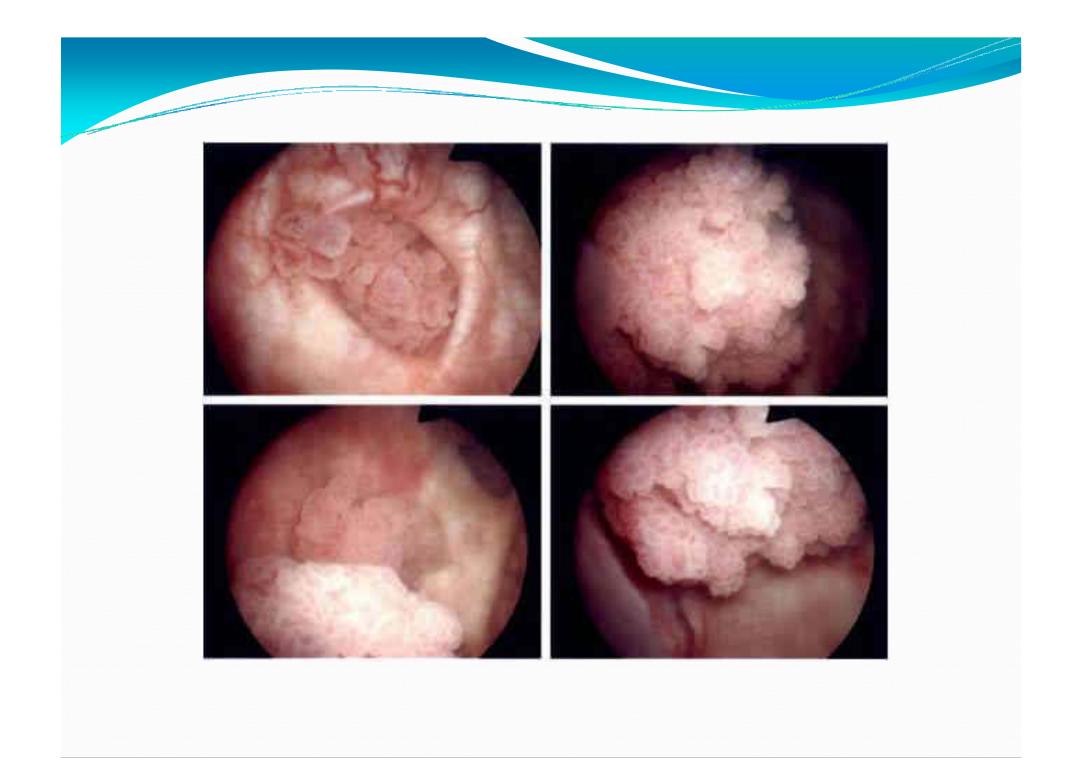
OPTIONS

- Active surveillance / watchful waiting
- Surgery
- Radiotherapy
 - EBRT
 - Brachytherapy
- Hormone therapy
- Combination



Bladder cancer

- Arises in urothelium
 - Bladder lining [transitional cells]
 - Hence "Transitional Cell Cancer" [TCC]
 - Environmental disease
- Strong link to pollution / **smoking**
- 80% superficial / papillary
- 20% muscle invasive / solid
- May affect all parts of urinary tract

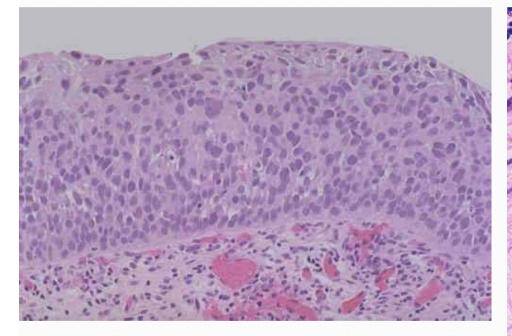


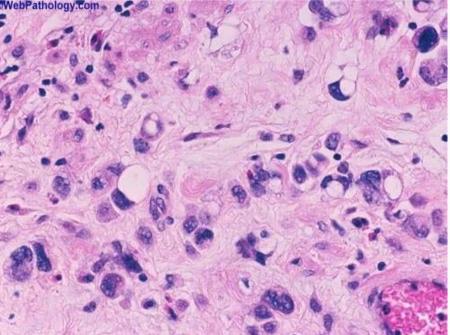
Normal and papillary bladder cancer





CIS and muscle invasive





Presentation

- Almost always with HAEMATURIA
- VISIBLE : 20% risk of cancer
- INVISIBLE : 5% risk of cancer
- Dysuria / UTIs
 - Abnormal cytology

Diagnosis

- Flexible cystoscopy
 - Look only / occasional biopsy
- Trans Urethral Resection Bladder Tumour
 - TURBT / TURT
- Resect /biopsy tumour and base of tumour to sample muscle
 - Muscle invasion is the single most important finding

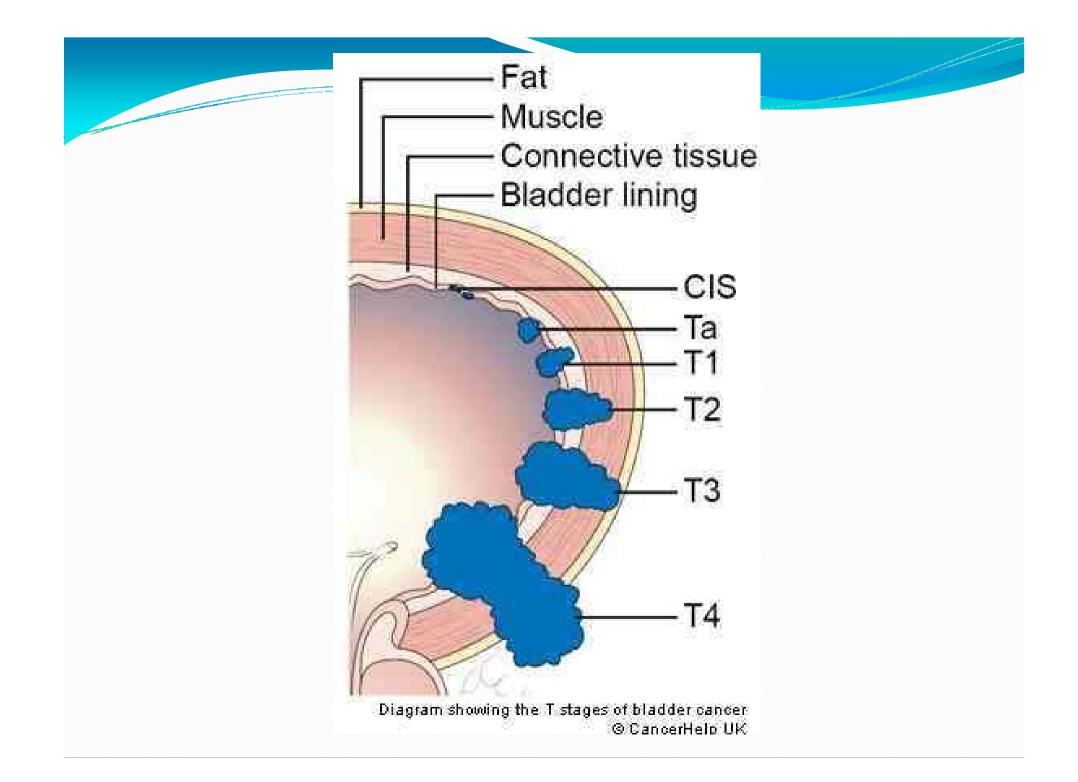
Grading [degree of malignancy]

- G1, G2, G3
 - Low grade [G1/G2]
 - Hi grade [G2/G3]

• BIOPSY may give STAGE if muscle is included

Staging

- On biopsy
- CT urogram / ultrasound/ IVP
- Cross sectional imaging [CT/ MRI]



MDT process

- Review histology [grade =/- stage]
- Review imaging
- Consensus on OPTIONS to put to patient
- Where treatment will be carried out and who by

OPTIONS – non muscle invasive

- 3 month review cystoscopy [surveillance]
- Early re-resection for higher risk disease[T1/G3]
- Intravesical chemotherapy
 - Mitomycin C
 - BCG [others]
- Occasionally radical surgery

OPTIONS Carcinoma In Situ

• BCG

• Radical surgery

OPTIONS : muscle invasive

- Radical surgery
- Radiotherapy =/- neo-adjuvant [before] or adjuvant [after] chemotherapy

QUESTIONS.....?

