Urological Complications of Malignancy

Case 1



- 1. What does this sagittal magnetic resonance imaging (MRI) scan show?
- 2. Which cancers commonly cause this?
- 3. What is the acute management?



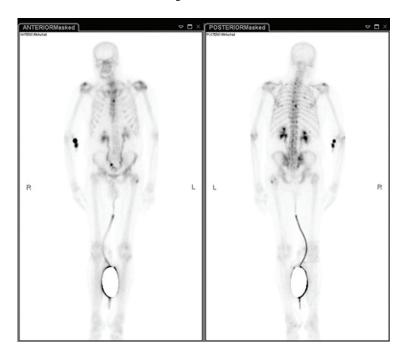


- 1. What is the diagnosis?
- 2. What local effects can this mass cause?





- 1. What abnormalities are seen on this bone scan?
- 2. What is the mostly likely urological diagnosis?
- 3. What is the radiation dose of this scan?



Case 4



- 1. What is the abnormality?
- 2. What are the possible causes of the results shown?
- 3. What is the acute management?

Urological Complications of Malignancy – answers

Case 1

- 1. Spinal cord compression.
- Breast, prostate, lung, kidney, thyroid.
- Corticosteroids (loading dose of at least 16mg dexamethasone followed by 4mg six-hourly), analgesia, bisphosphonates, spinal decompression surgery or radiotherapy.

Case 2

- Large tumour within bladder diverticulum.
- Invasion and compression of local structures causing: haematuria, pain due to mass effect, neuropraxia (sacral nerve compression), altered bowel habit (rectal compression).

Case 3

 Increased uptake in thoracic spine, pelvis and left femur suggestive of bony metastases. Bilateral hydronephrotic kidneys. Patient is catheterised. Extravasation at injection site in right antecubital fossa.

- Bony metastases secondary to prostate cancer, with bilateral hydronephrosis secondary to bladder invasion or pelvic lymphadenopathy.
- 3. 6.3mSv.

Case 4

- 1. Hypercalcaemia.
- Advanced malignancy, hyperparathyroidism, bone metastases, sarcoidosis, hyperthyroidism, drugs (Thiazide diuretics).
- IV fluids (0.9% saline 3-6 litres / 24 hour), diuretics once rehydrated (furosemide 40mg IV boluses), bisphophonates (30-90mg IV pamidronate).

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