Cytology Slide Seminar 2018
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Case 1: A Bony lesion of knee joint
An 18-year male presented with pain in the right knee joint for six months.
Radiology: A 3cm diameter geographic lesion with sclerotic margin in the medial condyle of the right femur
Fine needle aspiration cytology (FNAC) smears from the lesion show:
Diagnosis?

Case 2: Maxillary swelling in a child

History:
• A 15 months old female child
- Right maxillary region swelling for 2-3 months
- Firm swelling measuring 5x4x2 cm
Case 3: Bilateral Retro-orbital tumour
A 16-year male presented with bilateral proptosis for last eight years
CT scan of the Orbit: Bilateral retro-orbital mass
Diagnosis?

**Case 4: Bronchoalveolar lavage (BAL) Cytology**

A 28-year female presented with

- Intermittent fever (101 to 103 F): Few weeks
- Cough with scanty mucoid expectorant: few weeks
• Rapidly progressing dyspnoea for seven days
  Bronchoalveolar lavage (BAL) smear:
Diagnosis?

**Case 5: Cervical smear and mass abdomen**

- A 44 year female with a history of abdominal pain and distension: Last four months.
- Per speculum examination: About 2 cm hard nodular growth in the cervix
- A huge mass in the pelvis: 15x15 cm
• USG guided FNAC of the pelvic mass: 20 cm diameter.
Diagnosis?

**Case 6: Multiple Swellings in Breast**

- A 37-year-old female
- She presented with multiple 0.5 to 1 cm nodules in the left breast
- Mammography: Non-contributory
- USG guided FNAC from the breast nodule
Diagnosis?

**Case 7: Pelvic mass in a female**

- A 60 years old female patient presented with abdominal pain and fullness in the lower abdomen for two month
- Currently, on examination, a mass is palpable per abdomen.
• She had a history of squamous cell carcinoma of the cervix, stage IIA, five years back, treated with radiotherapy (both external beam and intracavitary radiation)
• She was well for two years after radiation
• Clinical diagnosis: Pyometra
Diagnosis?

**Case 8: Testicular swelling in a young male**

- A 17-year male presented with 7 cm right testicular swelling for few months. Swelling is increasing gradually.
- He has a history of precocious puberty
Diagnosis?

**Case 9: BAL in a child**

- An 11-year-old boy presented with chest pain, fever and cough
- Pains in the ankle and wrist joints for one year
- He had multiple 1 to 2 cm solid cystic lesions in the left lung
- BAL was done in this patient.
Diagnosis?

Case 10: A male breast lesion

- A 47-year male had 2-3 cm well-defined sub areolar swelling for 3 weeks
- He had no nipple discharge
- Nipple and areola were normal in appearance
Diagnosis?

**Case 11: Mediastinal mass**

- A 25-year-old male patient admitted with a history of shortness of breath and cough
- He had an anterior mediastinal mass measuring 12x10x6cm
- USG guided FNA and core biopsy were done
Diagnosis?

Case 12: Bilateral Renal Mass

- A 60-year-old male presented with gross haematuria for three months

**RADIOLOGICAL IMPRESSION:** Hypervascular, variable sized mass lesions in both kidneys with macroscopic fat within the left renal mass. Possibility: A malignant tumour.
Diagnosis?

Case 13: Abdominal mass in a child
Case history
- An 11-year-old male with upper abdominal pain and fever: 2 days
- USG and CT scan of the abdomen: hypoechoic mass 5 x 6 x 5 cm in the right hypochondrium
- The patient is HIV positive
- USG guided FNAC was done from the abdominal mass
- Clinical diagnosis: Mass abdomen
- ? Tumour
- ? Inflammatory lesion
Diagnosis?

Case 14: An eye swelling

- A 21-year male presented with a firm swelling in the upper eyelid of right eye for 15 days.
- He does not have any other complaints.
- H/o right side orchidectomy done outside for right painless testicular mass (present since last three months)
- The patient presented with arm swelling after 14 days of FNAC of eye swelling

Eye FNAC smears
Arm swelling
Diagnosis?