

Case 13 (April 27 2006): N Engl J Med 2006;354:1828-37.

Case 13-2006 — A 50-Year-Old Man with a Painful Bone Mass and Lesions in the Liver

Demographic: 50 year old, male, America North, General speciality

Clinical features extracted from the case and entered into the query box: 4 months previously:

"elbow pain" Stiffness in elbow progressive pancytopenia

2 months previously:

"elbow pain"
Stiffness in elbow
progressive pancytopenia
radiographs showed lytic lesion in proximal ulna
"proximal ulna" tender and posterior soft- tissue mass
decreased range of movement in elbow
palpable liver in right upper quadrant
"ulna fracture"
CT of chest, abdomen and pelvis showed multiple masses

Admission:

pain and stiffness in the elbow exacerbated by movement tender "proximal ulna" hepatomegaly decreased "range of movement" in elbow lytic lesion in the "proximal ulna" with pathologic fracture ulna cortical destruction soft-tissue mass below elbow multiple hepatic masses "hypocellular marrow" elevated alphafetoprotein progressive pancytopenia



Synonyms used by Isabel (optional) for the above query: Admission:

Range of movement Hepatomegaly

STOP!

Before you read further you might want to construct your own:

- Complete differential diagnosis
- Final diagnosis

In the following section you will find:

- The differential diagnosis constructed by the MGH panel
- The final diagnosis of the case
- Which of the MGH panel differential diagnoses did Isabel contain
- Did Isabel suggest the Final diagnosis

Differential Diagnoses considered by the MGH panel:

Malignant bone tumour Hepatic Cancer – hepatocellular cancer Fanconi's Anemia

Final Diagnosis of the case according to NEJM:

Fanconi's Anemia and Hepatocellular Carcinoma metastic to the bone.

Differential Diagnoses of the case as given by Isabel:

Malignant bone tumour – metastasis – Isabel 1st page Hepatocellular failure – Isabel 2nd page

Was the final diagnosis given by Isabel?

Yes, Malignant Bone Tumours - Bone Metastases (Isabel 1st page)

Entire presentation cut and pasted into the Isabel query box:

None of the above

Isabel Differential:



| ORTHOPEDIC DISORDERS | NERVOUS SYSTEM DISORDERS | |
|---|------------------------------------|------------|
| Benign Bone Tumors | Ulnar Nerve Injury | |
| Vit D Deficient Rickets/Osteomalacia | Intracranial Hypertension | |
| Renal Osteodystrophy | NEOPLASTIC DISEASES | |
| → Malignant Bone Tumours | Langerhans Cell Histiocytosis | |
| →Bone Osteochondroma | Class I | |
| Hypophosphatasia | RESPIRATORY SYSTEM DISORDER | s |
| Paget's Disease | →Lung Neoplasms | |
| Elbow Injuries | Sarcoidosis | |
| Engelmann's Disease | | 70. 3V. 45 |
| Osteopetrosis | NEUROMUSCULAR DISORDERS | |
| Frozen Shoulder | Dermatomyositis / Polymyositis | |
| HUMAN GENETICS | RHEUMATIC DISEASES | |
| → Heart-Hand Syndrome | →Osteomyelitis and Septic Arthriti | 5 |
| UROLOGIC DISORDERS | Mixed Connective Tissue Disease | |
| UNOLUGIC DISONDERS | Pyogenic Arthritis | |
| → Neoplasms of the Kidney | → Spondyloarthropathies | |
| DERMATOLOGY | → Systemic Sclerosis | |
| Psoriasis | Behçet's Syndrome | |
| 1 3310313 | Rheumatoid Arthritis | |
| INFECTIOUS DISEASES | | |
| Gonococcal Infection | GASTROINTESTINAL DISORDERS | |
| | Hepatocellular Failure | |
| METABOLIC DISEASES | | |
| Primary Dyslipidemias | | |