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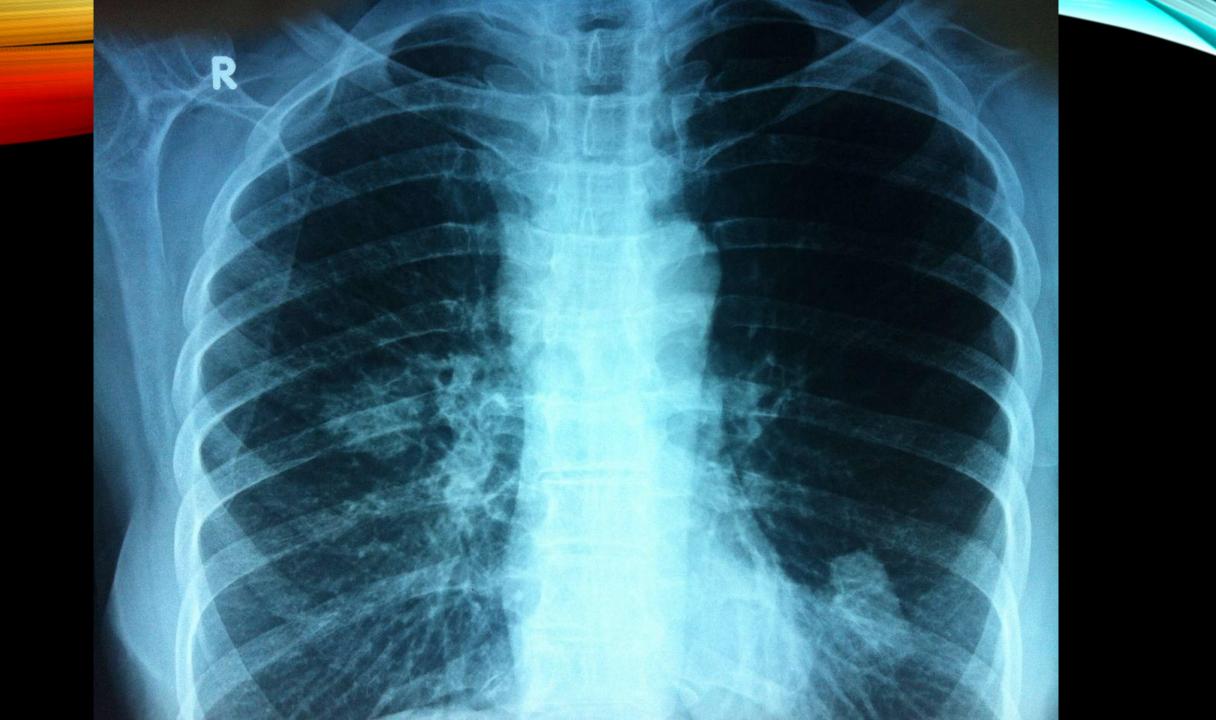
Prof of Anaesthesia & Pain Relief National Cancer Institute Cairo University
Chairman of Sections (previous) & Chairman of Middle East Section of WIP
President of Egyptian Sector of World Society of Pain Clinicians
President of the Egyptian Foundation for Interventional Pain Practice (EFIPP)

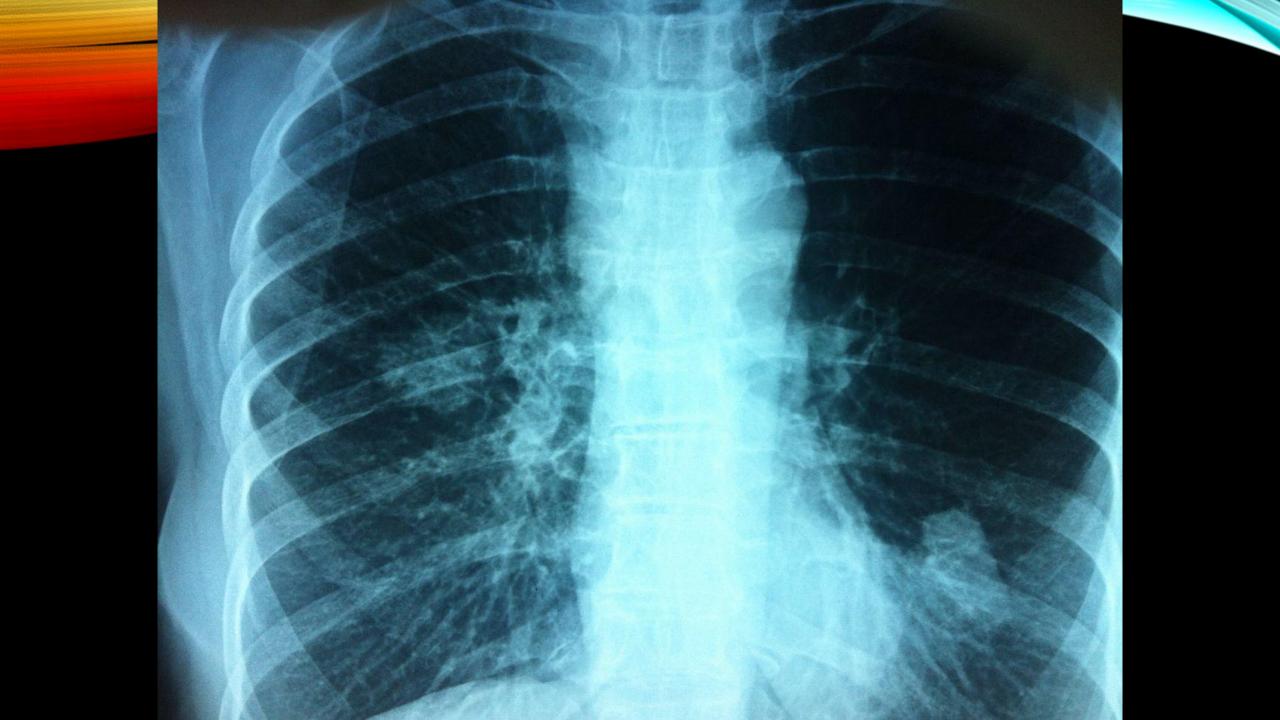
LUNG CANCER PRESENTATIONS



CASE 1

Lady aged 62 regular smoker is suffering from weakness in standing & inability to climb stairs.

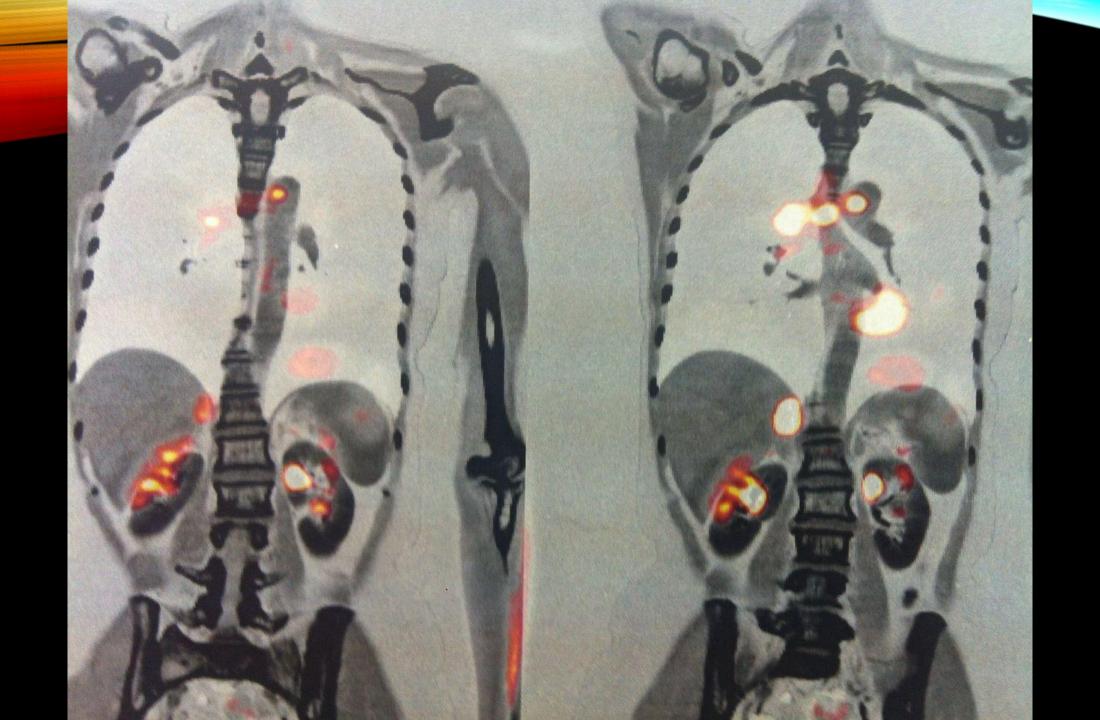




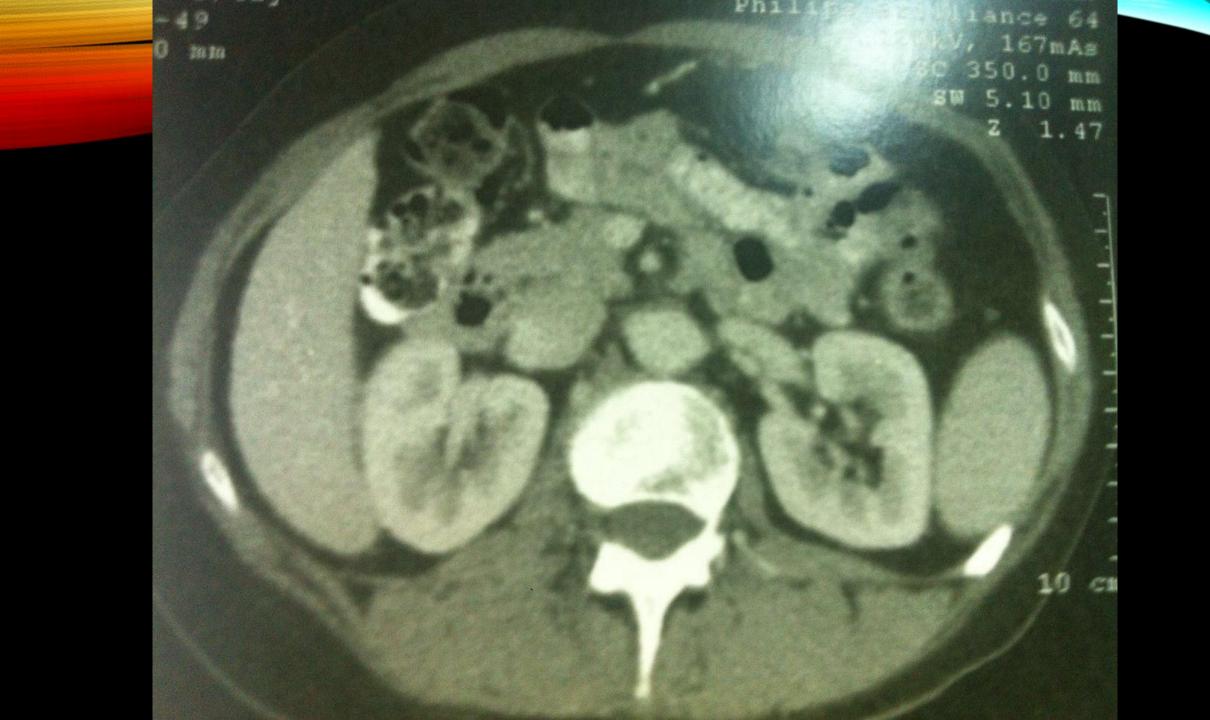


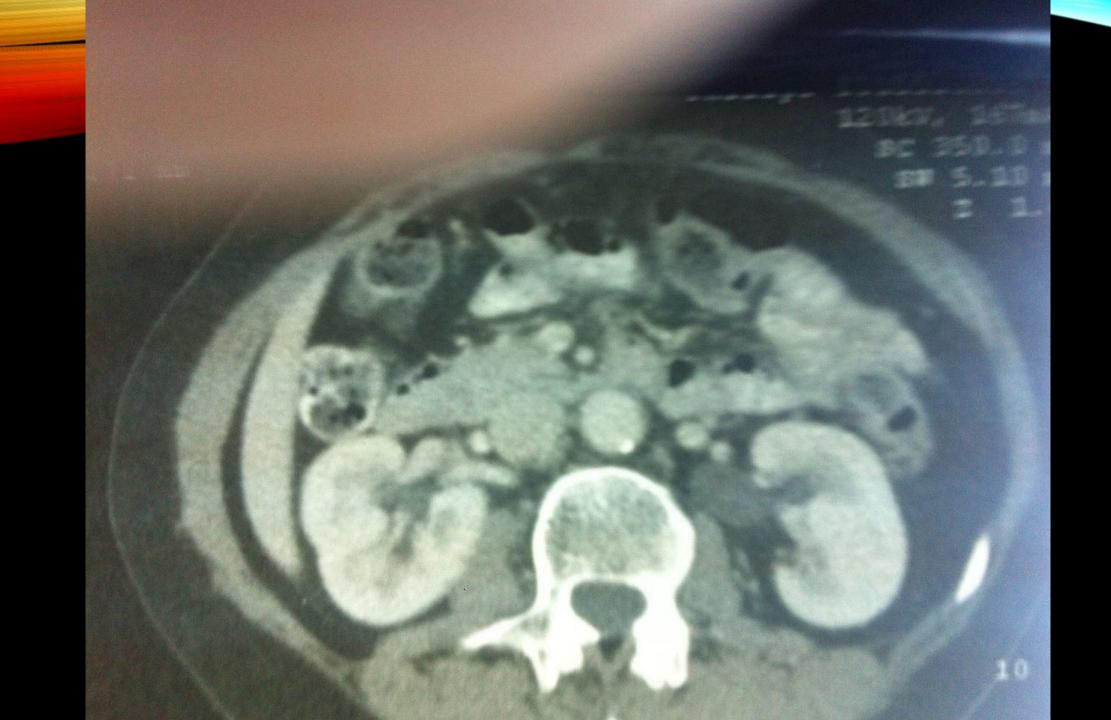


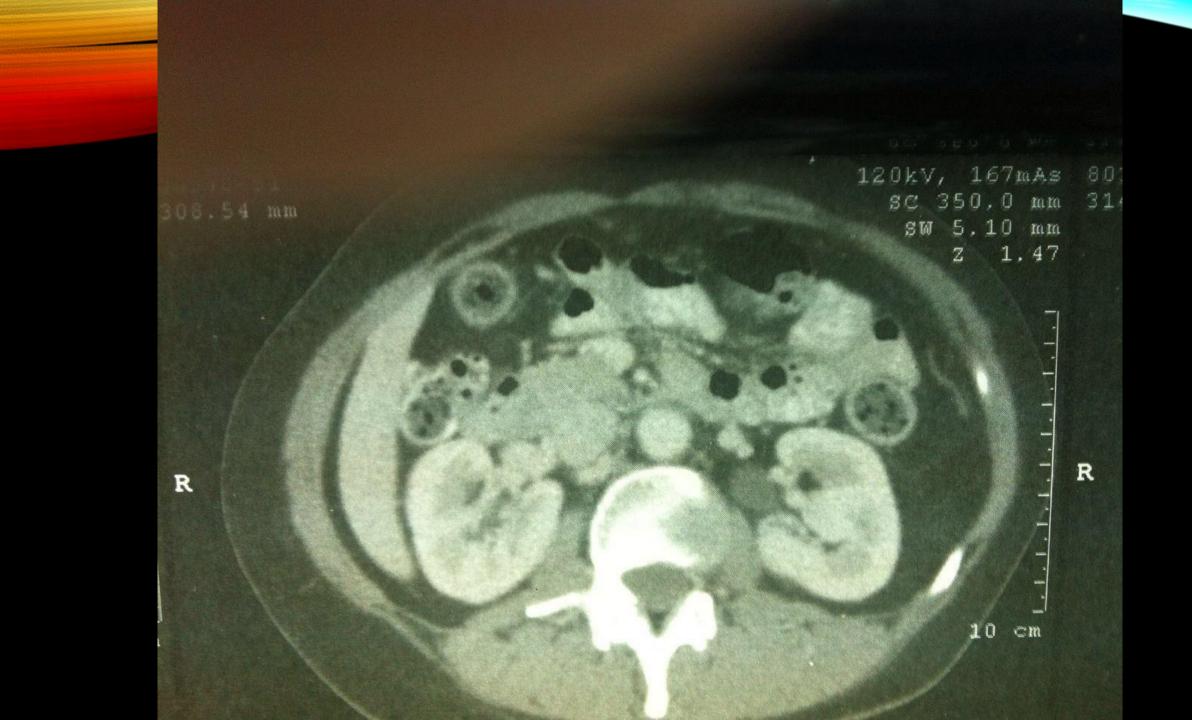


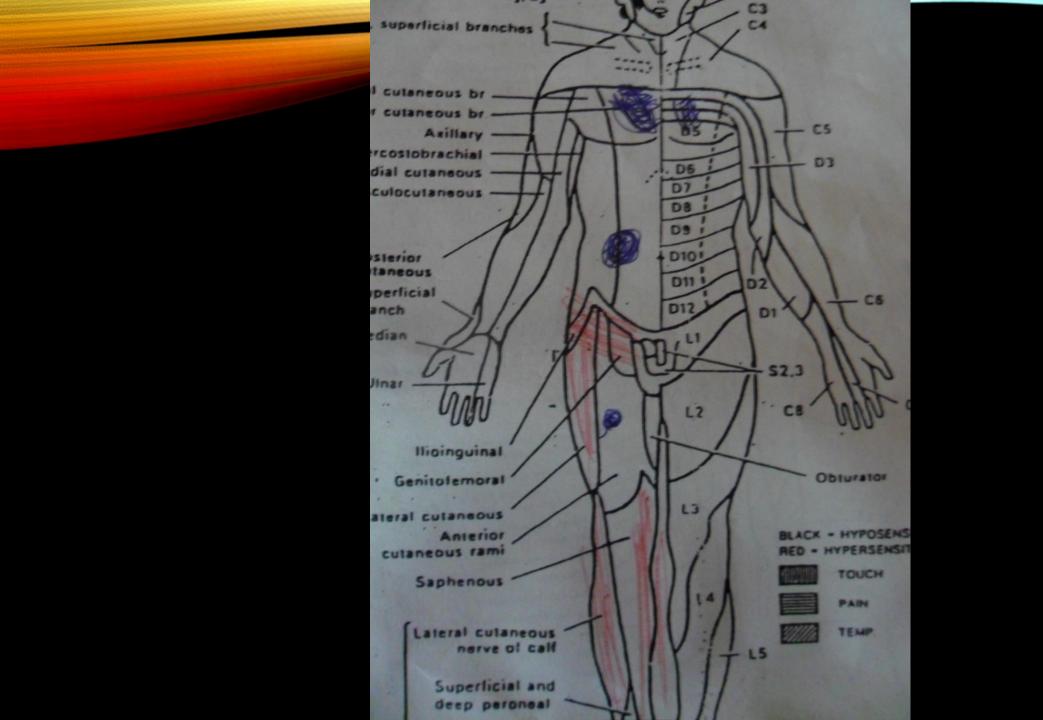


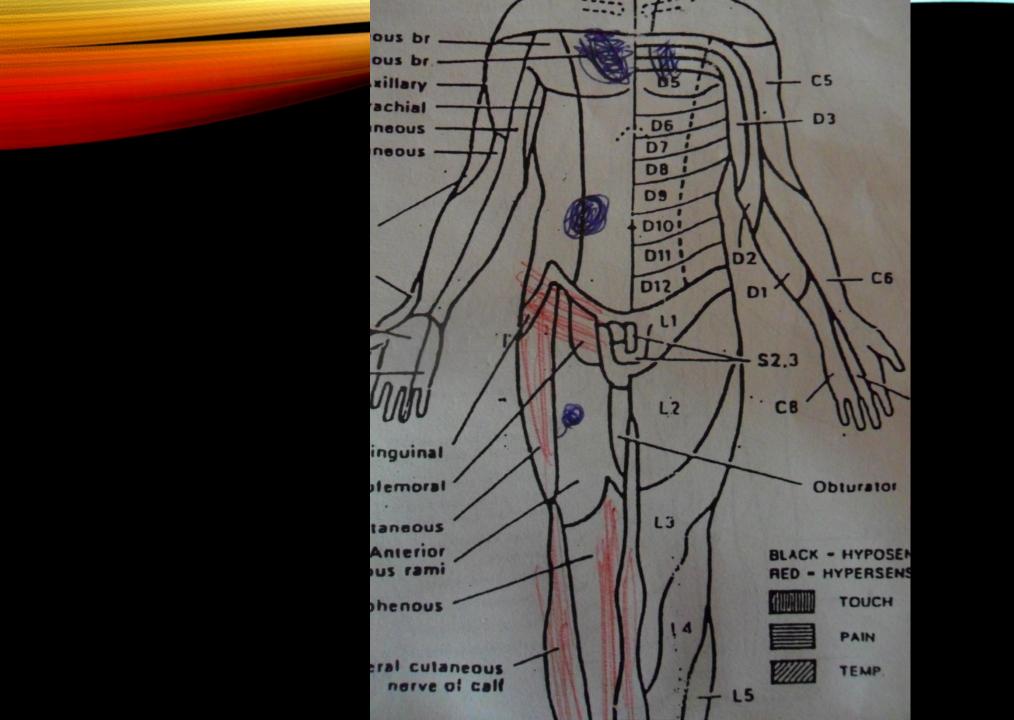












DERMATOMAL COMPLAINT

- > Groin Pain: L1
- > Lateral Cutaneus Nerve Of The Thigh.
- >Obturator & L5 (+ve Passive SLR)
- >Sympathetic Leg Pain.
- > Rt Pyriformis & Rt Psoas (+ve Active SLR)
- Bony Pain (Femur)?

NO ONCOLOGICAL TREATMENT BUT PAIN MANAGEMENT

- Long Acting Tramadol (100mg twice daily)
 - + Lactulose syrup twice daily.
- Pregabalin 75 mg twice daily
- Duloxetine 30 mg.

TWO WEEKS LATER

- ➤ Bilateral Suprascapular Pain Rt more than Lt.
- > Pain same sites more intense.
- >Uninterupted coughing.
- >Can't move in bed at night.

ADJUSTED THERAPY

- > Lidocaine Patch 5% (Suprascapular & Loin) Rt side once daily
- > Levofloxacin Tablets 500mg daily .
- Codeine Syrup (SINCOD)
- > Fentanyl Patch 100 microgram/hr
- **▶**Long Acting Tramal T 200mg twice daily
- > Picolax drops
- ➤ Duloxetine 60mg +/- calmipam

INTERVENTIONAL THERAPY

- Unacceptable bilateral neurolytic interventions (always one sided).
- Unjustified discrete RF/neurolytic to an unexplainable effect of a tumour on a nerve .
- Neurolytic Lumbar sympathetic .
- Ventral right Sacral Epidural.

CASE 2

Lady aged 84 is suffering from pain covering left breast.

Pain is shooting from upper back towards the left nipple.

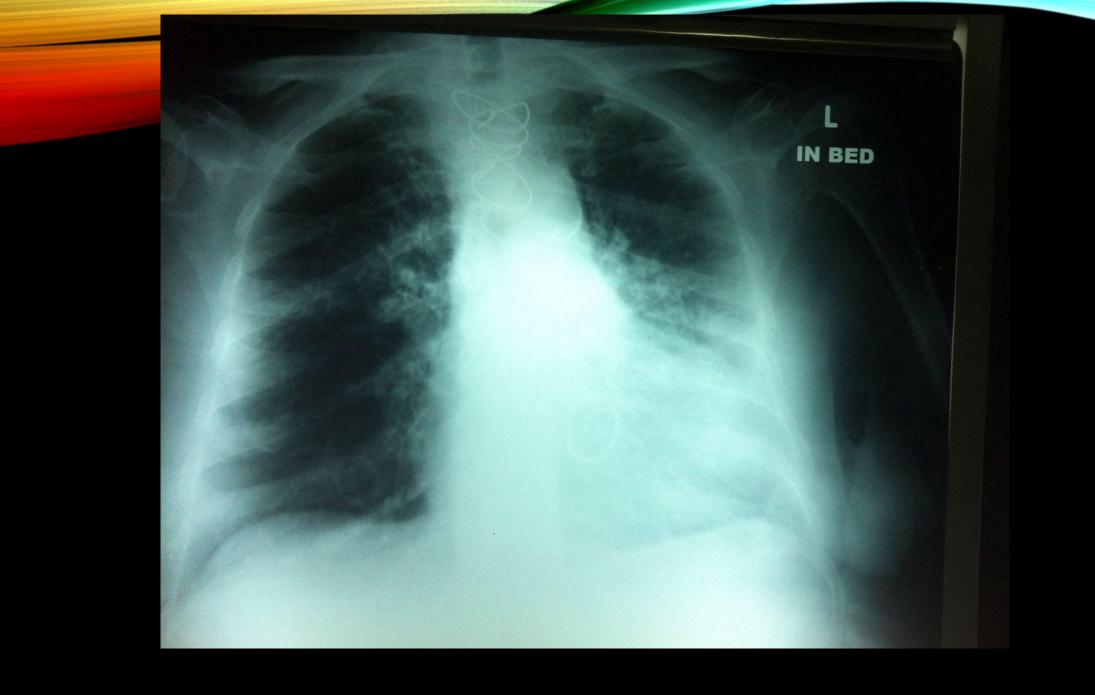
Dyspnea on mild exertion was noticed.

Past History: Rheumatic Mitral Stenosis

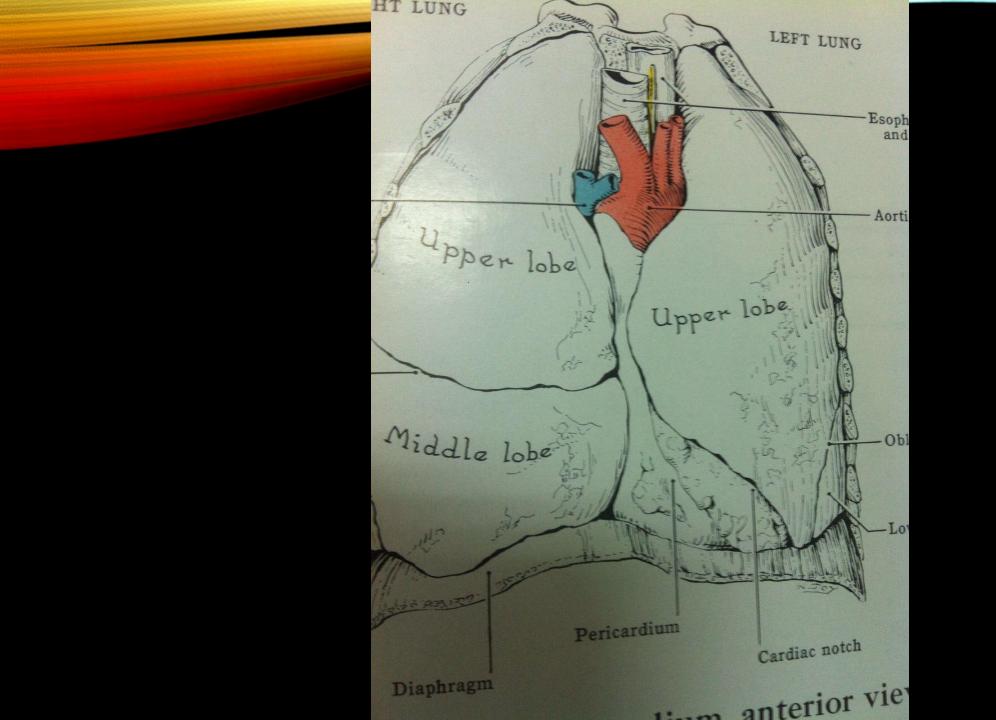
-Closed Valvotomy 1994

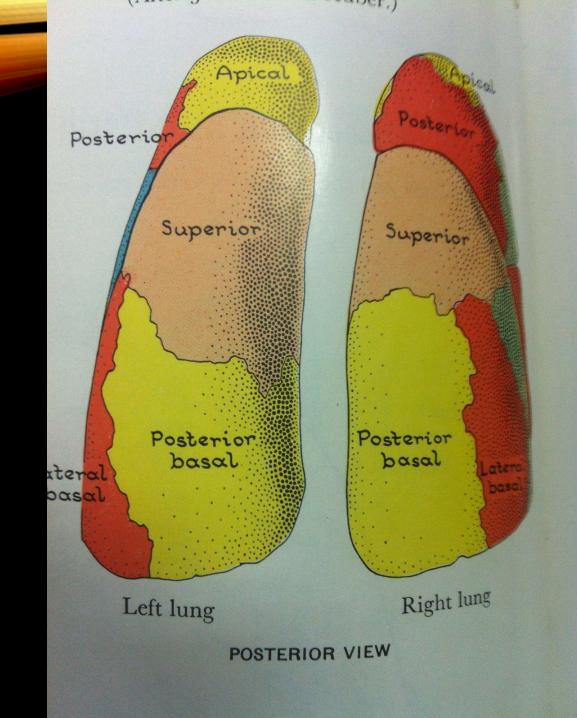
-Valve Replacement 2014

Drug History: Warfarin to keep INR above 3.5

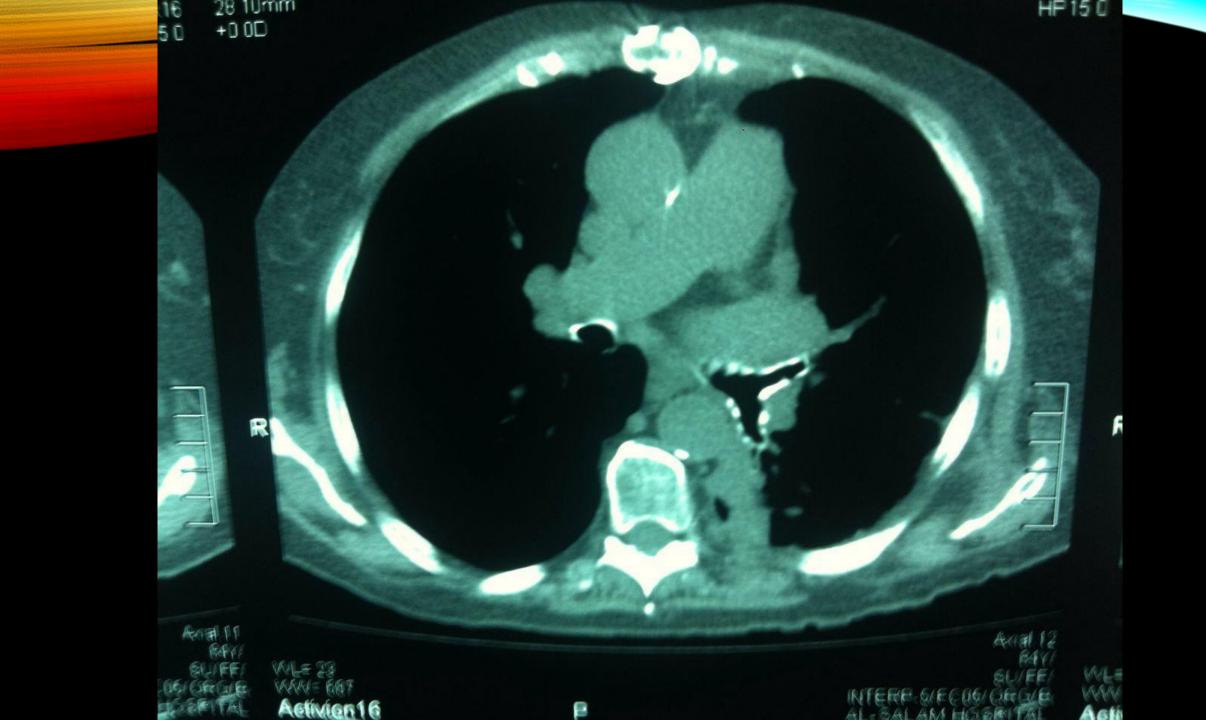


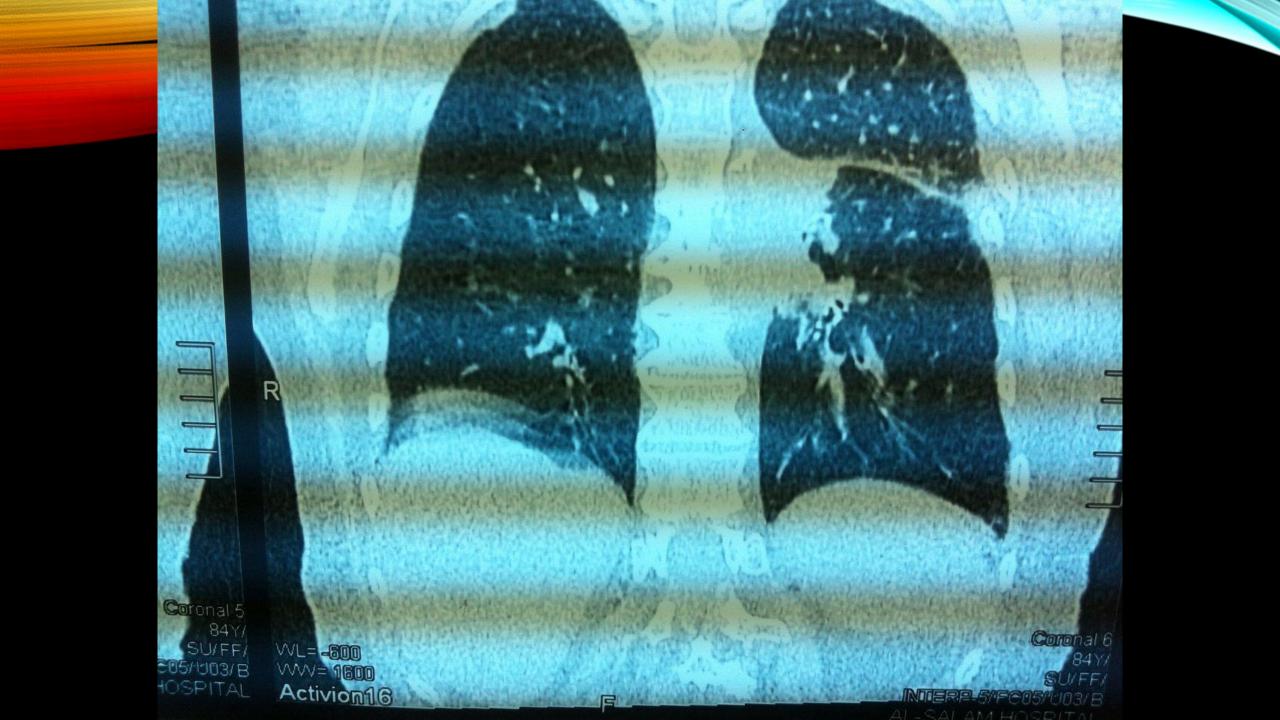


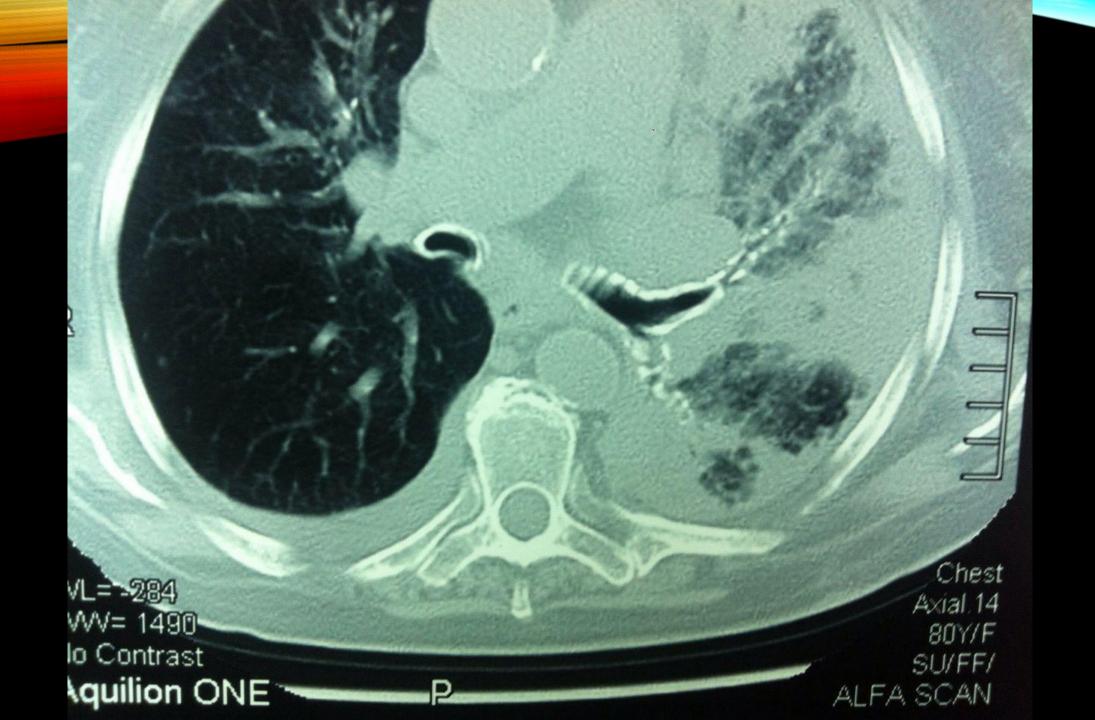






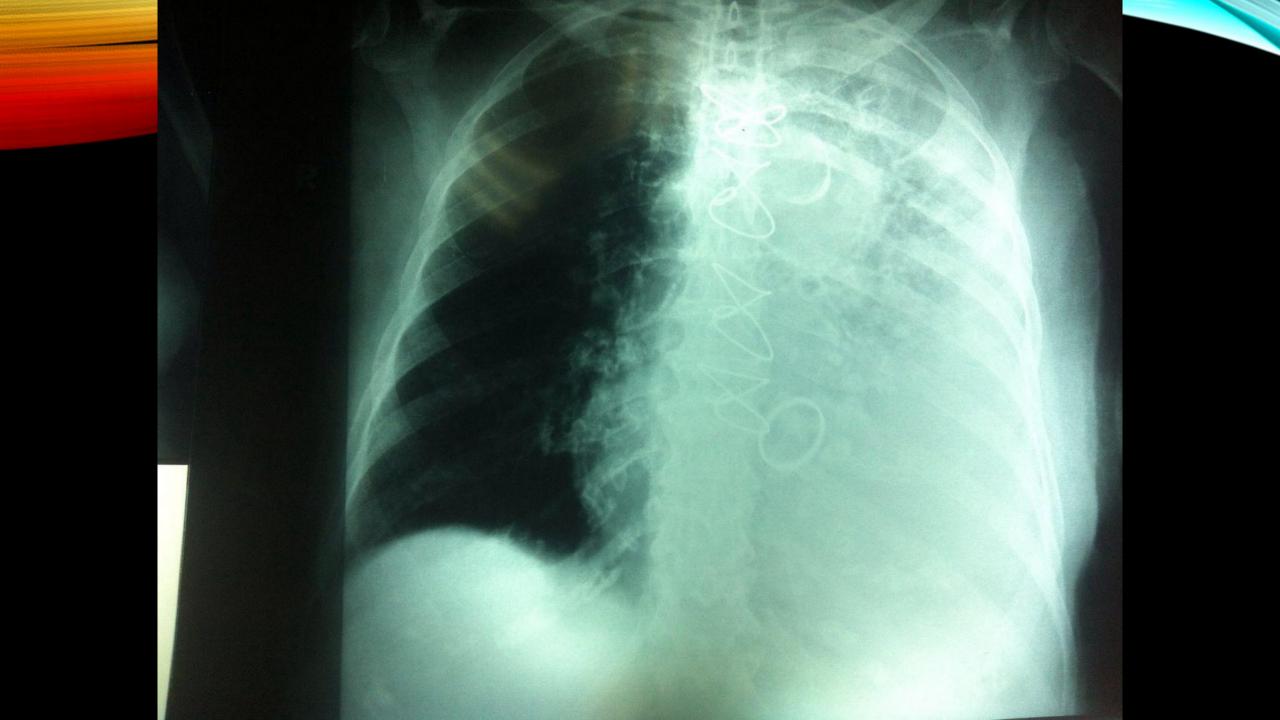


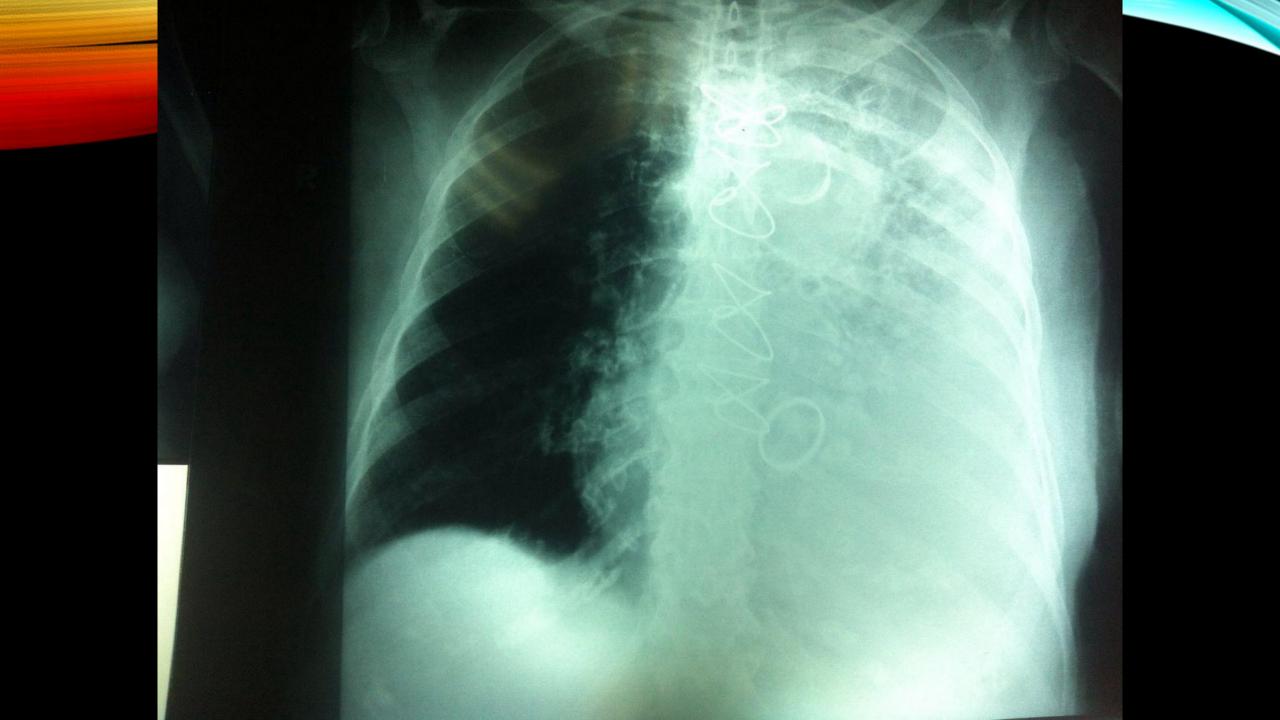


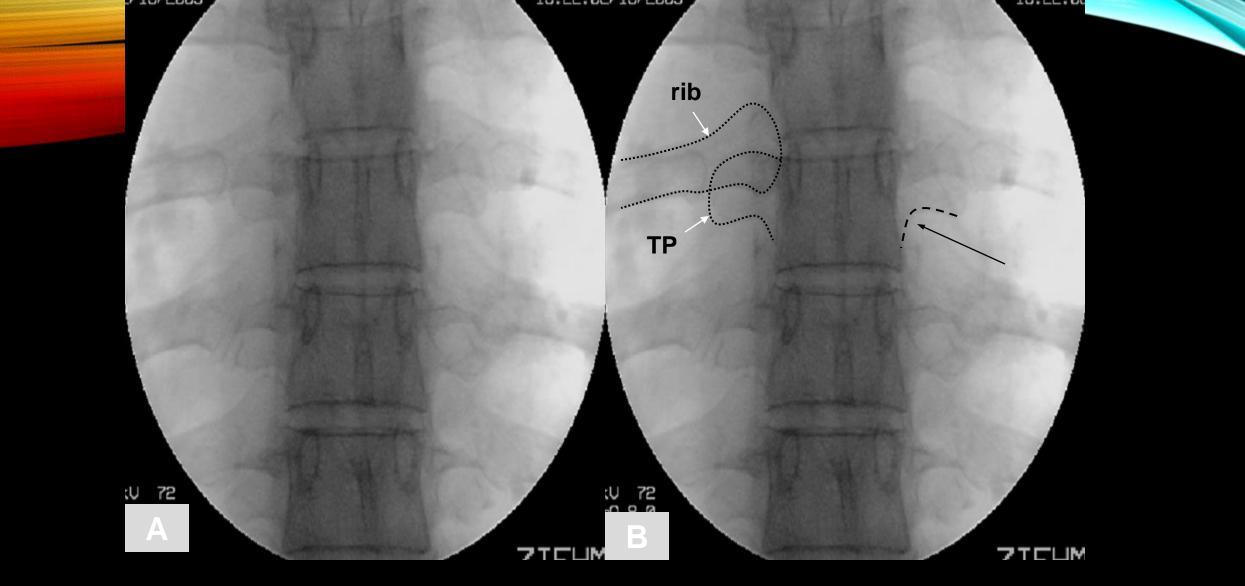


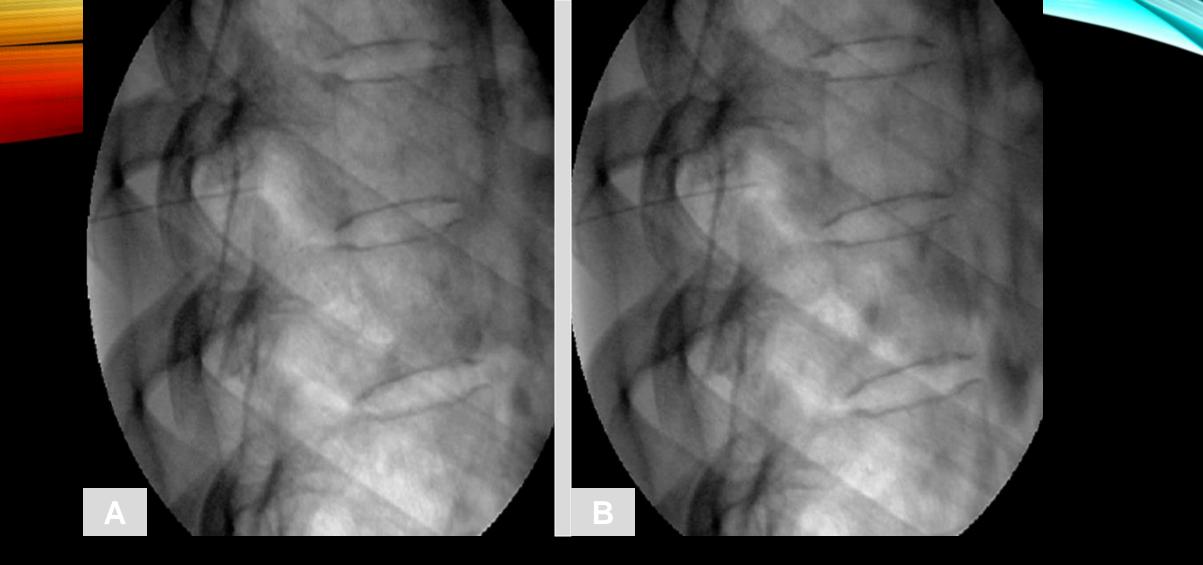


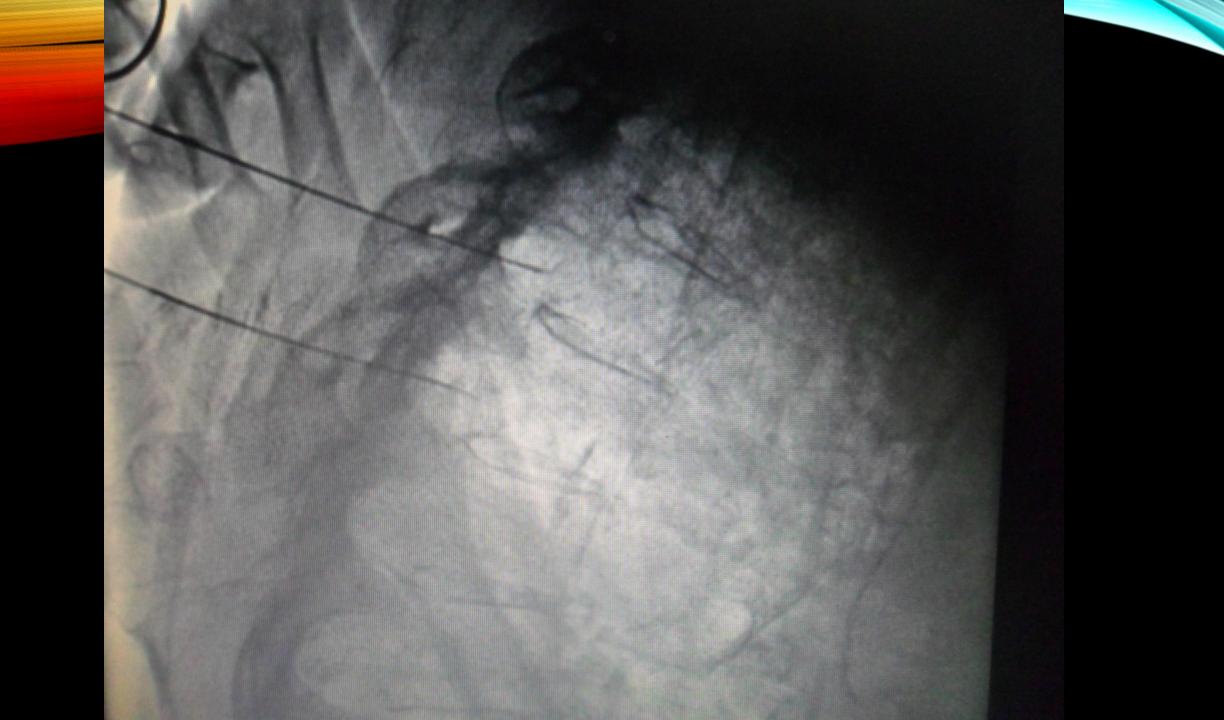


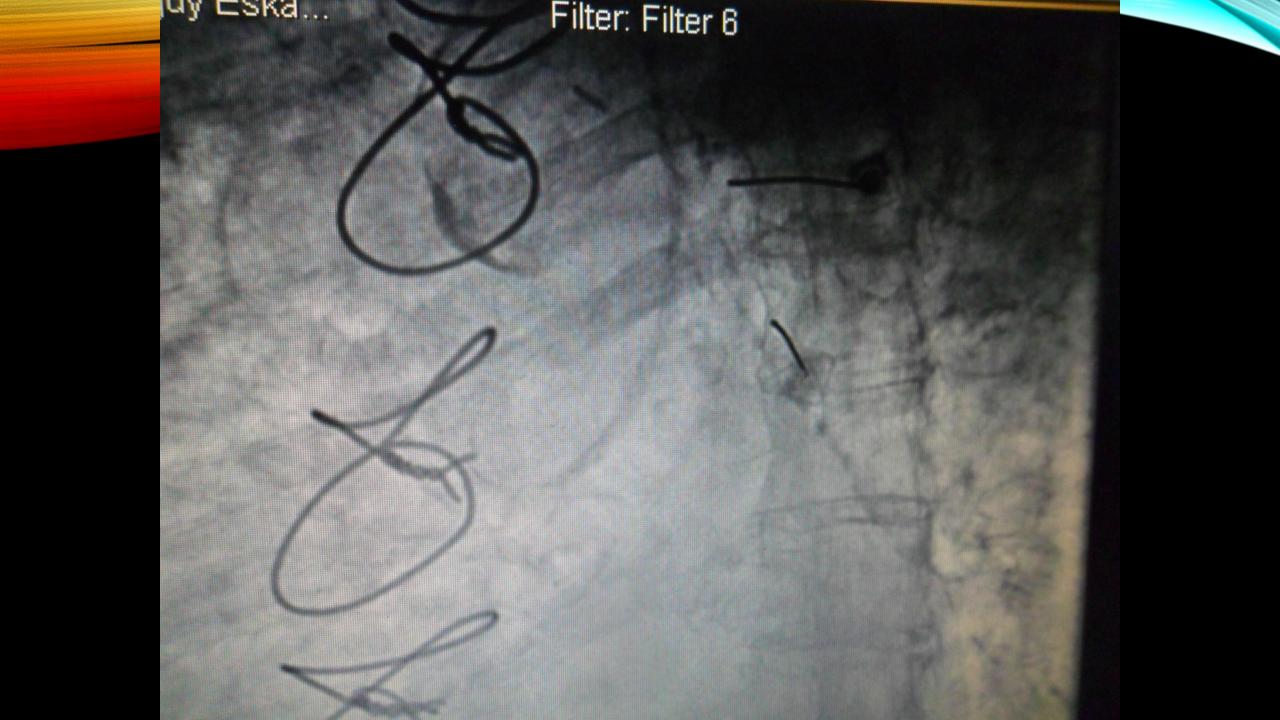












CASE 3

A 53 years physician is suffering from recent left scapular pain & shoulder pain.

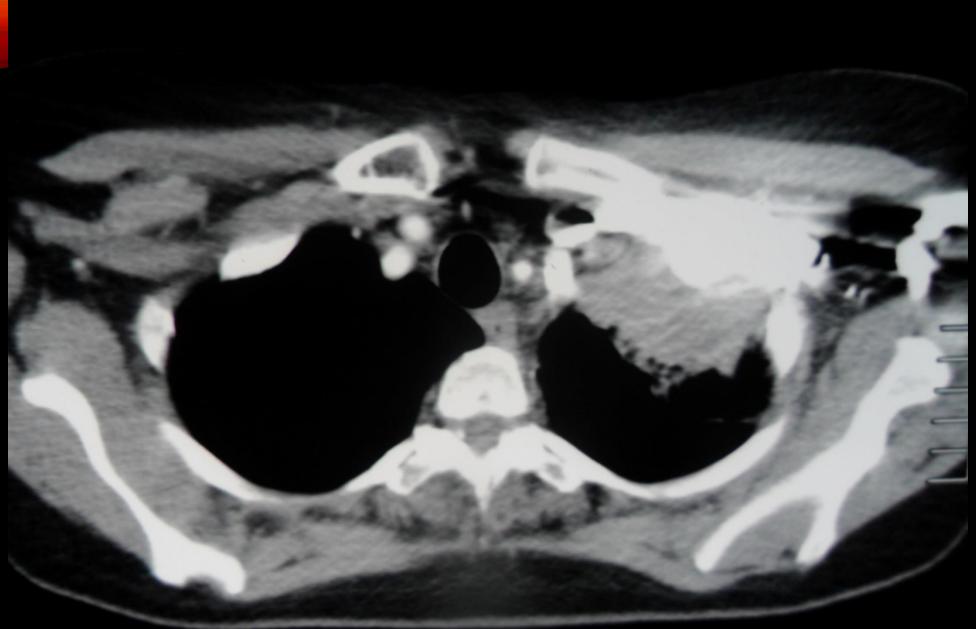
Refused suprascapular Block ...

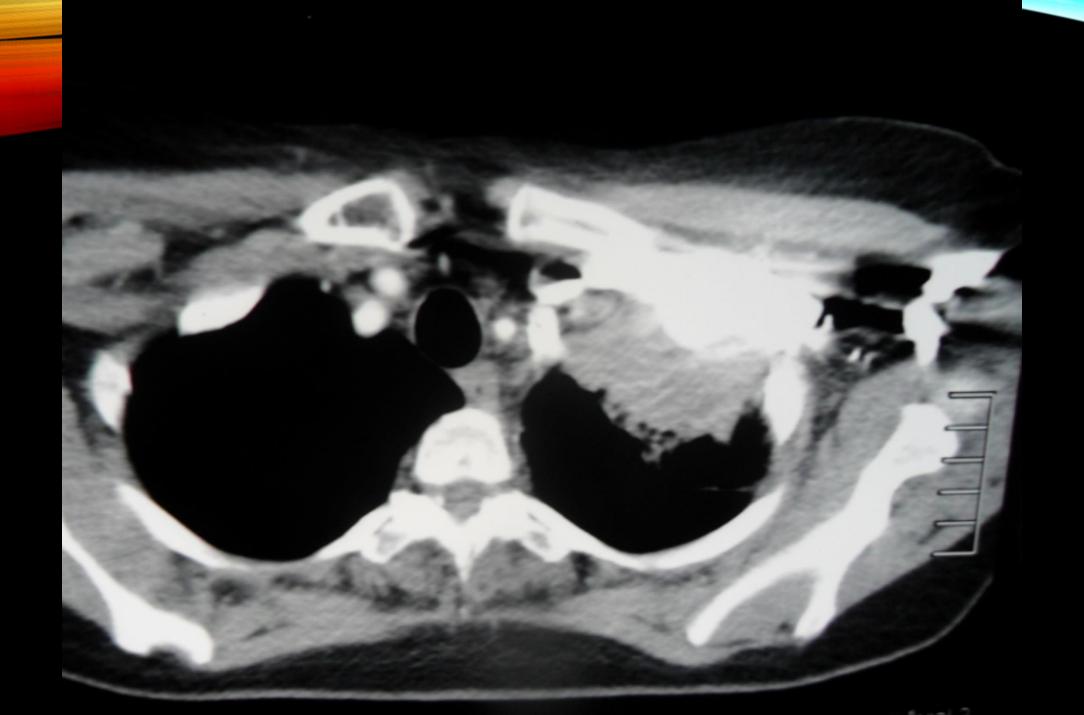
Pain not responding to NSAID's ...

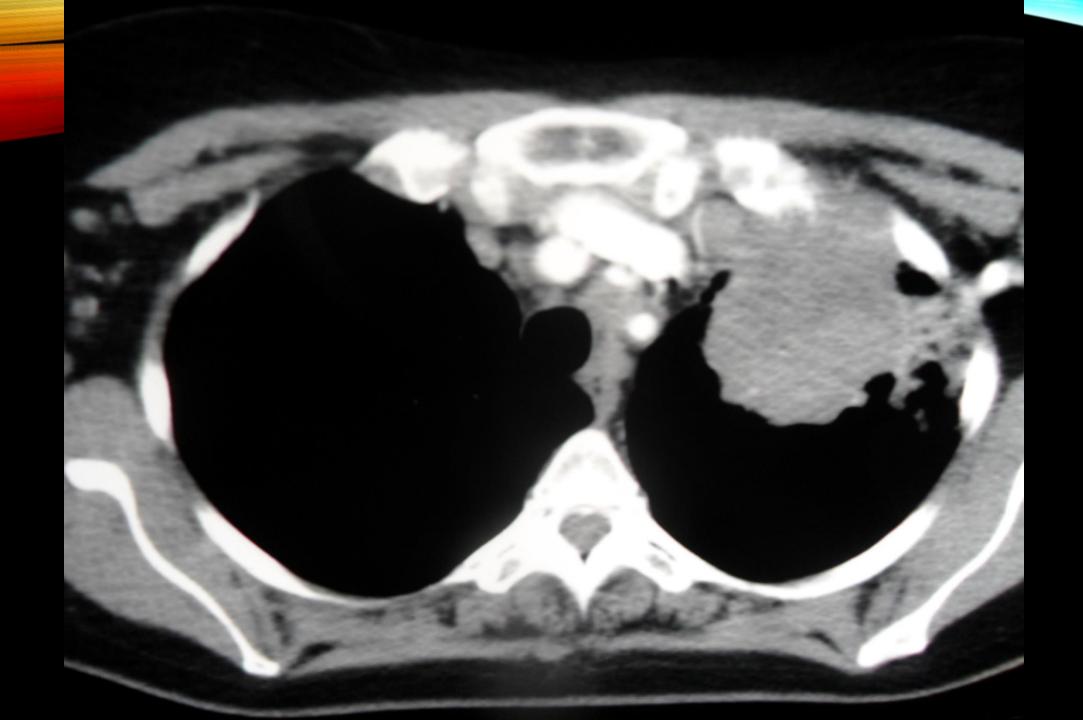
Neurosurgeon requested Cervical MRI in order to evaluate her radicular symptom.

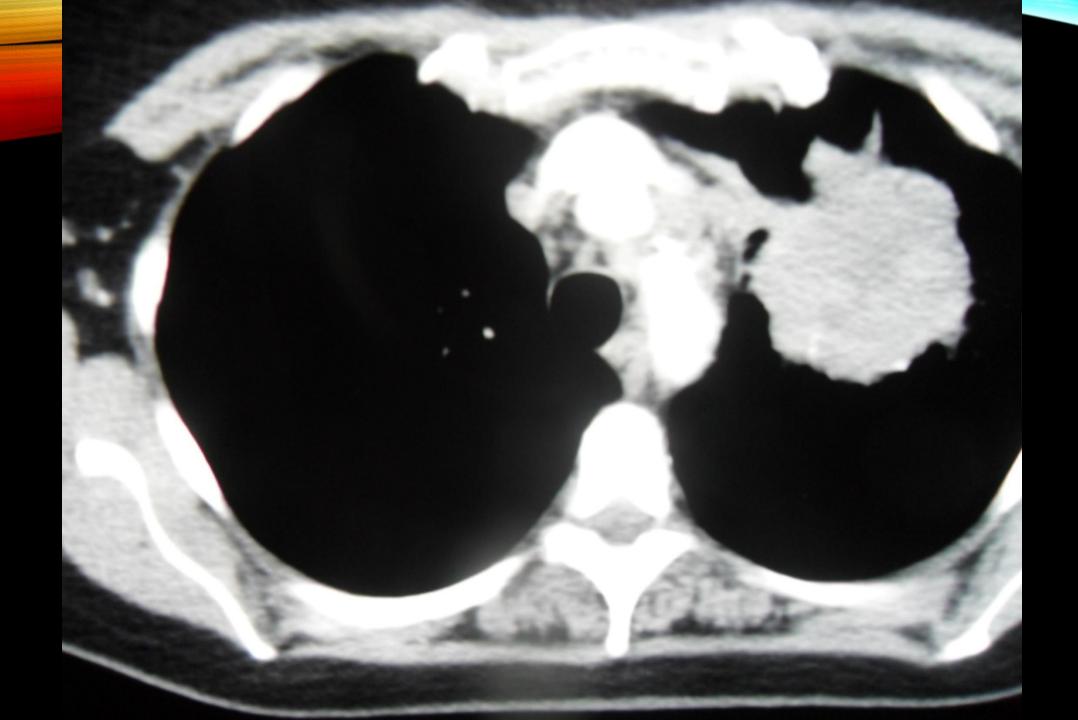
mm

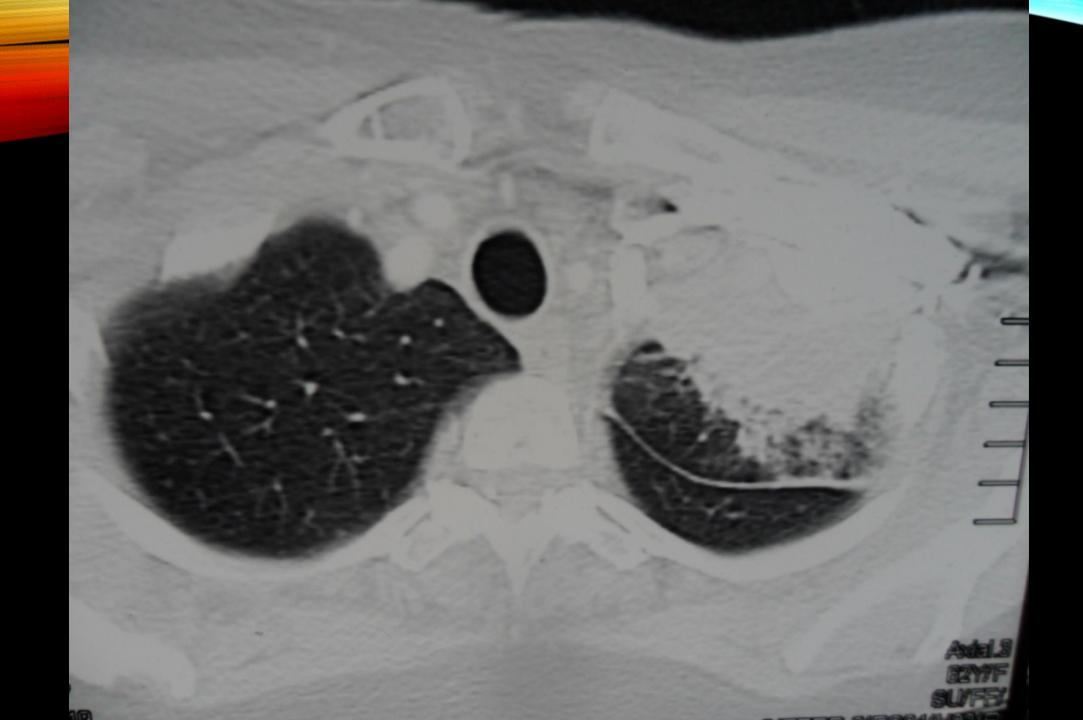




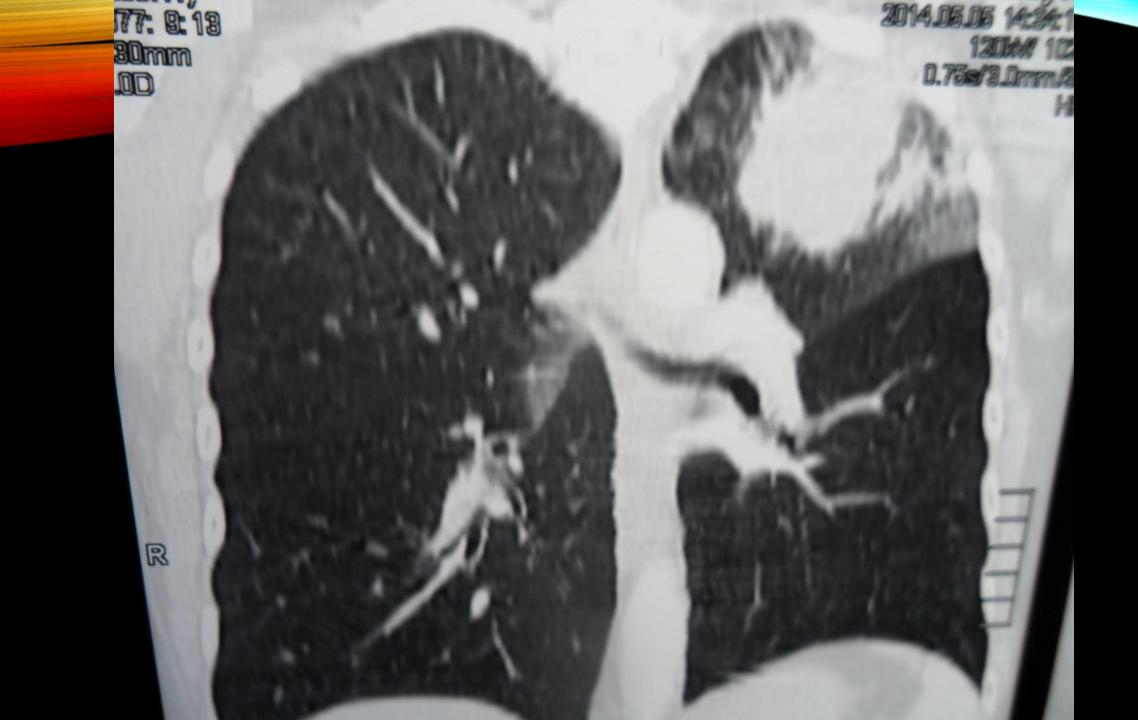










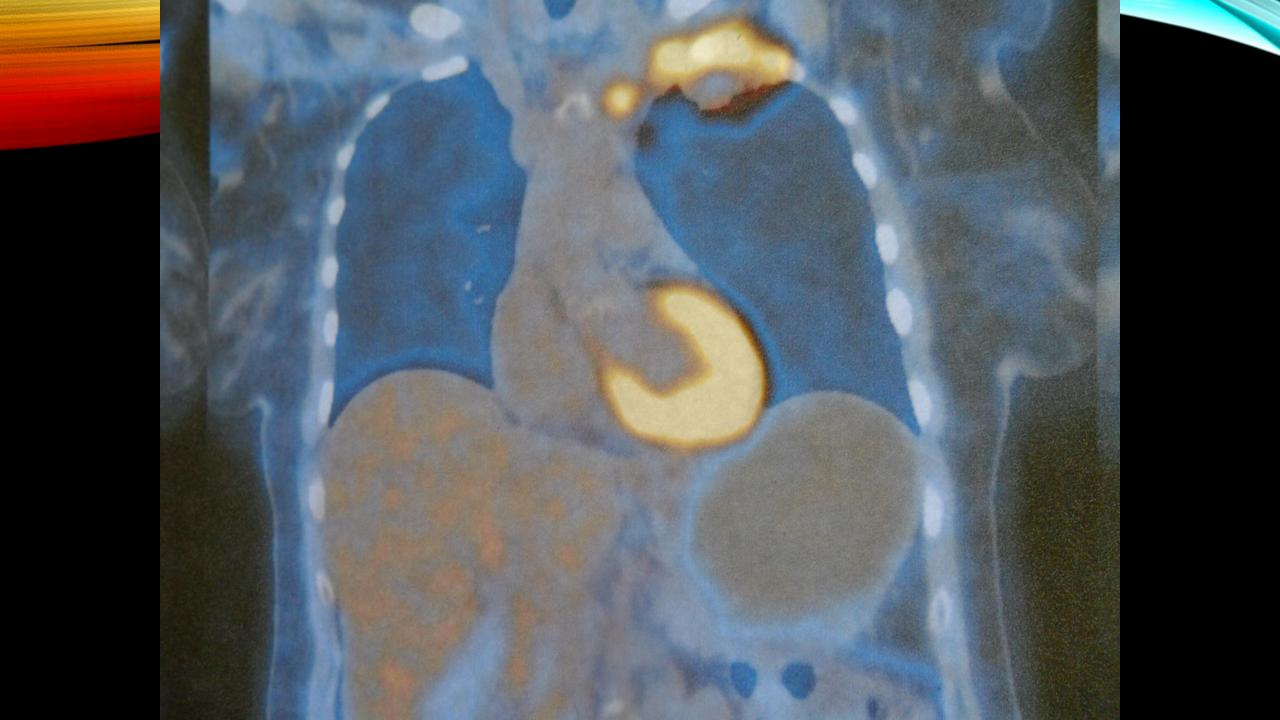


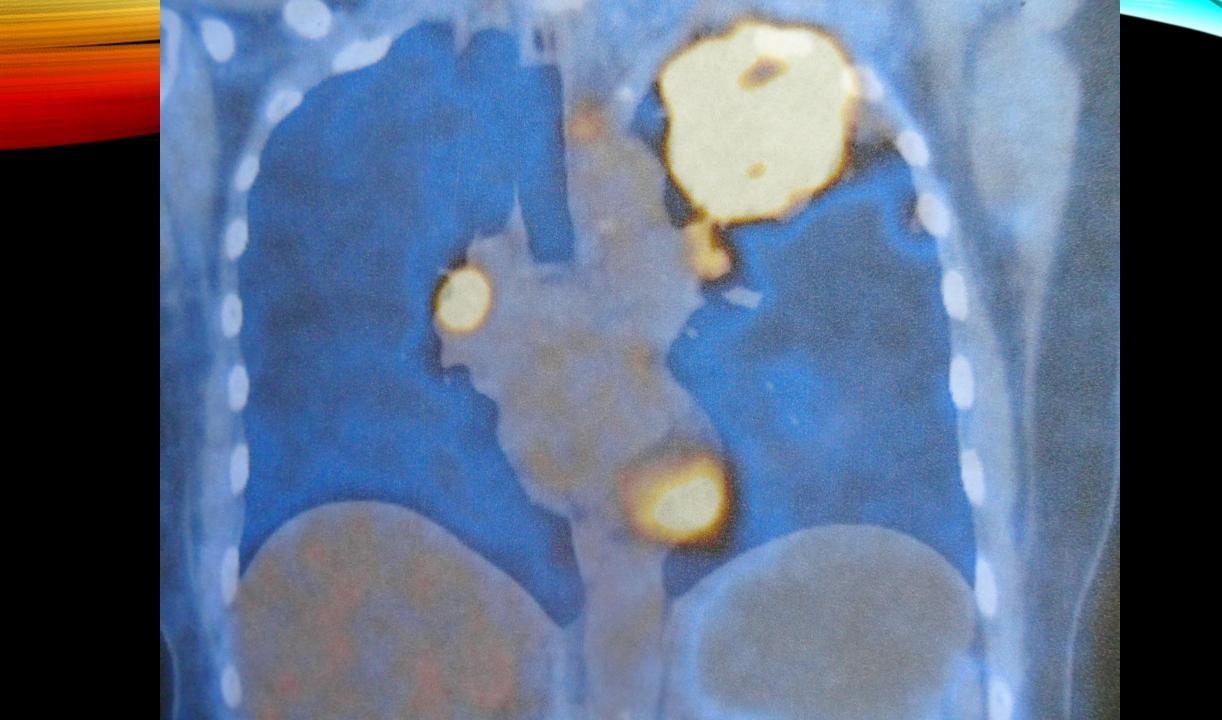
Multislice CT scan of the Chest was performed with I.V. contrast injection revealed:

- The study has revealed left upper lobe pulmonary mass lesion measuring about 5.5 x 5.2 x 6 cm, The mass has speculated outer margins and surrounded by reticulations and consolidation that extending to prevascular area and lateral chest wall.
- The mass seen reaching the apical centric chest wall with intact ribs.
- Multiple right hilar, prevascular, carinal and retrocaval lymph nodes.
- Free pleural sacs.
- Upper abdominal cuts reveals paraaorrtic lymphadenopathy measuring 2.4 cm in diameter.

Opinion:

• Left upper lung lobe mass lesion likely bronchogenic carcinoma stage T 2 b N 3 M 1 for better PET-CT correlation.







D] Musculoskeletal:-

No evidence of nasty or serious bony lesions could be elicited on PET/CT examination.

CONCLUSION:-

- Large hypermetabolic neoplastic mass at the left upper lung lobe with lymphatic infiltration of the mediastinal and both hilar lymph nodes, yet no metabolically active distant metastases are depicted.
- The initial staging for this patient is stage IIIB (T3 N3 M0).

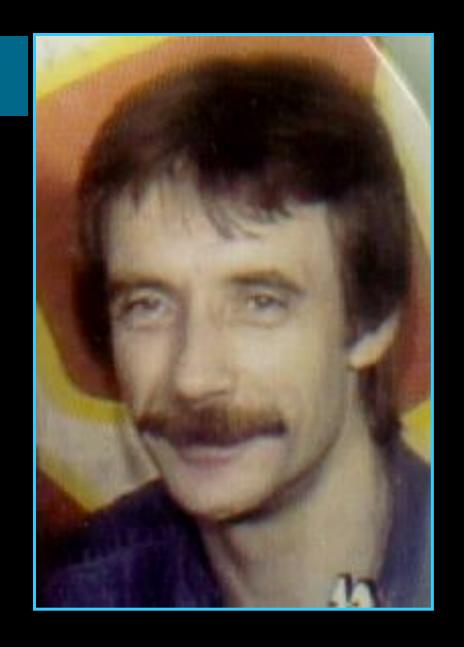
MUCH OBLIGED,

MOSTAFA M. ABDEL KAWY, MD PROF, DR. OMAR HUSSEIN M.S. MAGED ABDEL-GALIL, MD

Nuclear Medicine

Case 4

- 42 yo
- small tiles-business
- not married
- no children
- always healthy
- alcohol was a problem



General Patient History

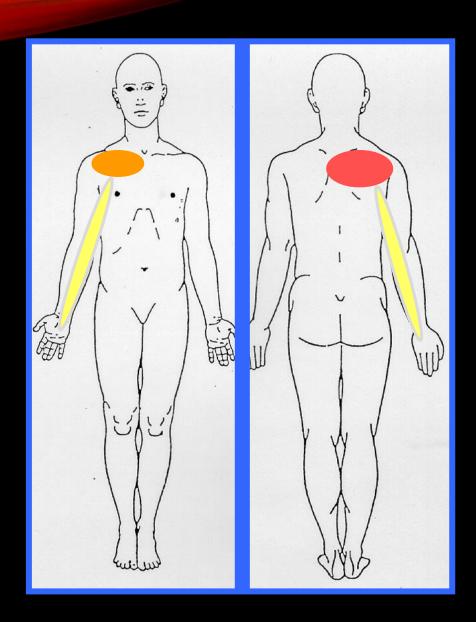
April: pain right arm, tingling in fingers

May: diagnosis of lung cancer right upper lobe with thoracic wall infiltration

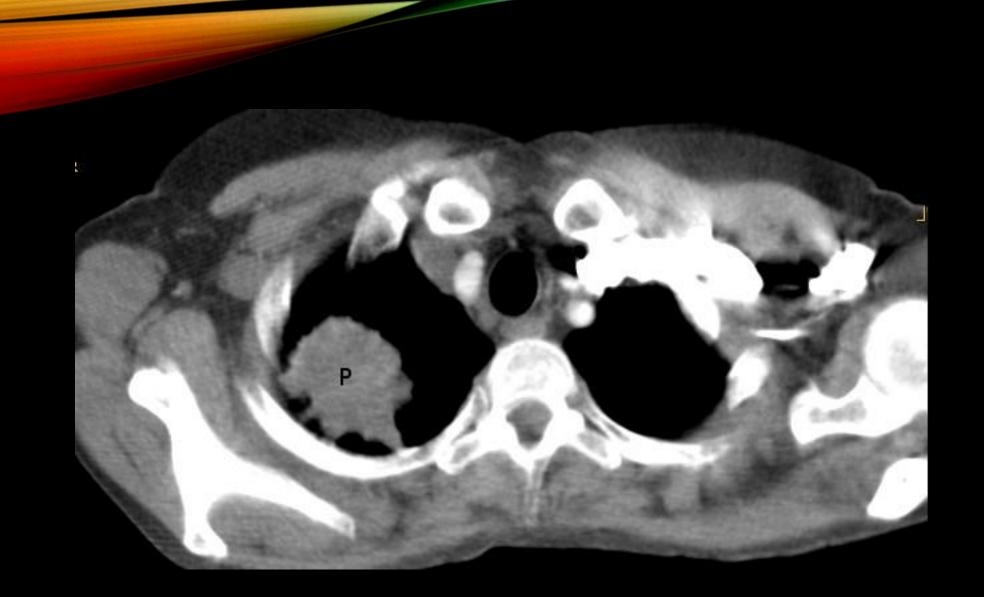
June: right lobectomy and thoracic wall recection, macroscopicly plexus infiltration staging: Pancoast-Tumor (T4, G2-3, N0)

July: first visit to pain clinic

Special Patient History



- Constant pain
 "stabbing, burning"
- Pain with movement "aching"
- Pain on light touch
 - **∅** sympathetic dysregulation



What kind of pain do we have here?

- 1) Neuropathic pain
- 2) Nociceptive pain
- 3) Mixed pain
- 4) CRPS (M. Sudeck) pain
- 5) None of 1 4

How to diagnose neuropathic pain

look for signs of allodynia: pain evoked by light touch?

look for sensory deficits:
insensibility against touch or cold ?

look for autonomic changes:
skin temperature, sweating, local perfusion ?

What mechanisms cause neuropathic pain?

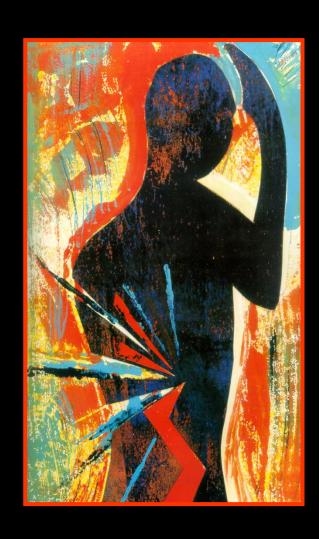
Compression of C-fibers:•
carpal tunnel, Disk prolapse, plexopathy in cancer

Automatic firing of damaged nerves and "cross-talk":• discus prolaps in the past, postzosteric neuralgia

Deafferentation (with anaesthesia dolorosa):• stroke, trauma, postzosteric neuralgia

Sympathically maintained pain (SMP):• with vasomotor and sudomotor changes

Medication plan before first visit



morphine slow release:60-30-60 mg

caregiver's comment:maximum dose

pain intensity while resting:-NAS 80

Sc 2 TSE/M SL 13 5 cm AP 48 post

Real reason

- Cancer progress
- 2. Plexus-infiltration

What is his new daily morphine dose?

- 1) 150 mg
- 2) 250 mg
- 3) 450 mg
- 4) 1000 mg
- 5) I would not continue with morphine

Calculation of new daily morphine dose

• before: 150 mg

• addition: 30 mg x 4 (for 24 hrs) = 120 mg

120 mg x 3 (for oral appl.) = 360 mg

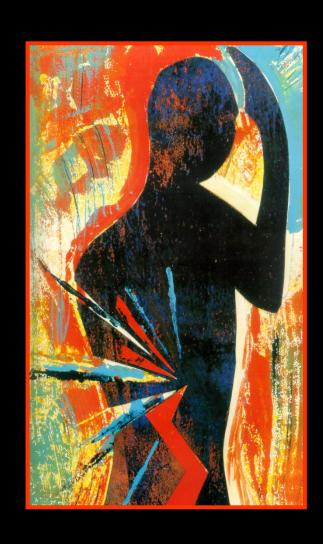
• new dose: 3 x 150 mg morphine slow release

plus on demand: 50 mg IR morphine (= 10% DD)

Pain intensity in rest: 2-3

Pain intensity when moving the right arm: 6

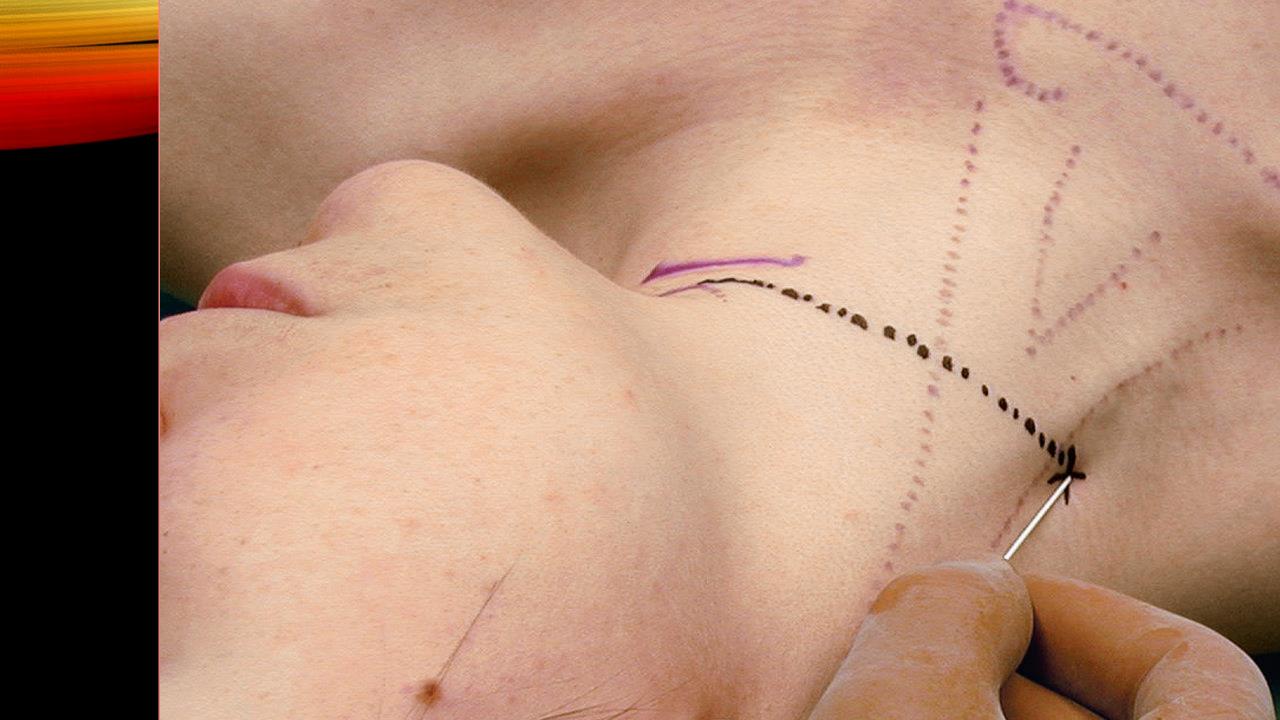
Six weeks later (August) ...



Suddenly:

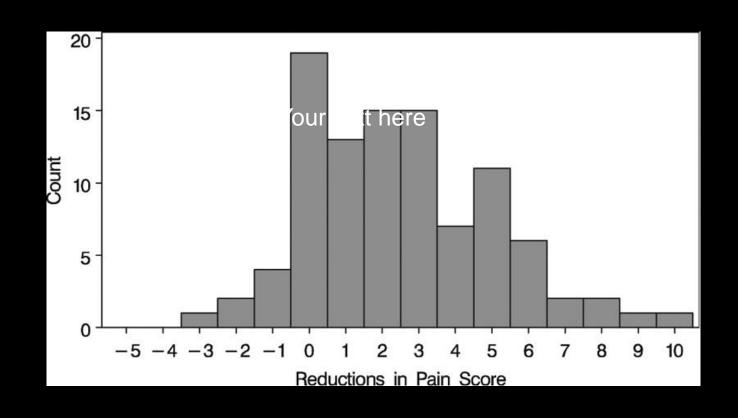
Pain at rest 80

Pain when moving 100

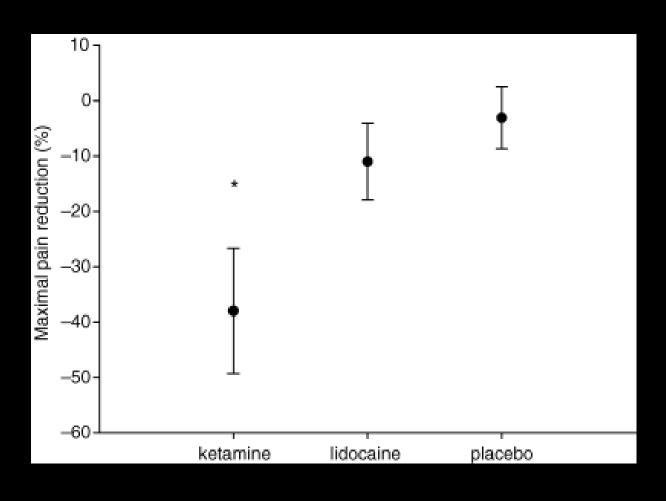


LIGNOCAINE I.V. IN NEUROPATHIC PAIN

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KETAMINE AS RESCUE MEDICATION



Ketamine 0.4 mg/kg*hr S-Ketamine 0.2 mg/kg*hr

Titrate to effect:
start 0.05 mg/kg*hr,•
increase every ½ hr•
each step 0.05 mg/kg*hr•
add bed rails•
midazolam only prn•

Kvarnström-A, Acta Anaesth Scand 2004: 48: 498

CONCLUSION

Many Variable different Presentations depending on sites in Lung Cancer

- Generalized weakness & inability to walk.
- Nipple Pain & Intercostal dermatomal pain .
- Suprascapular & Shoulder pain.
- Shooting neuropathic hand & forearm pain.
- Unresolved repeated coughing (chest infection).

Classically: Bloody sputum, Dyspnoea, Chest pain, weight loss & loss of appetite.

Metastasis: Blood & Lymph nodes:

Adrenal glands, Bone, Brain, Liver, Other lung.