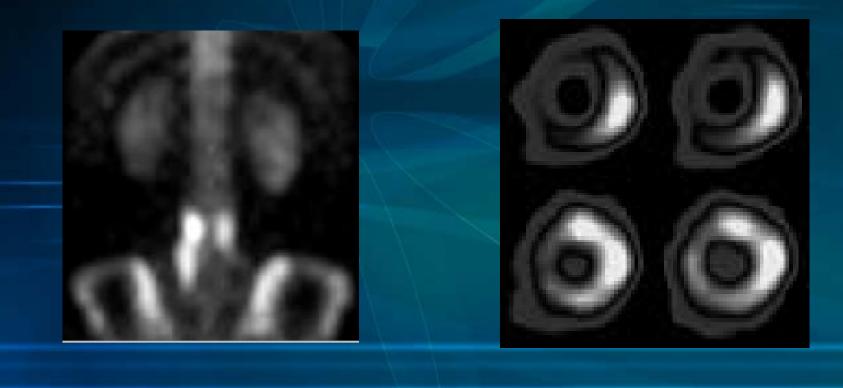
Nuclear Medicine Imaging

- Hot Spot Images ; Areas of increased flow and metabolism
- Ex... Met static disease, Inflammatory processes
- Cold Spot Images ; Areas of diminished flow or metabolism
- Ex... Cardiac Perfusion Infarct

Clinical Indications

Hot Spot Bone

Cold Spot Thallium

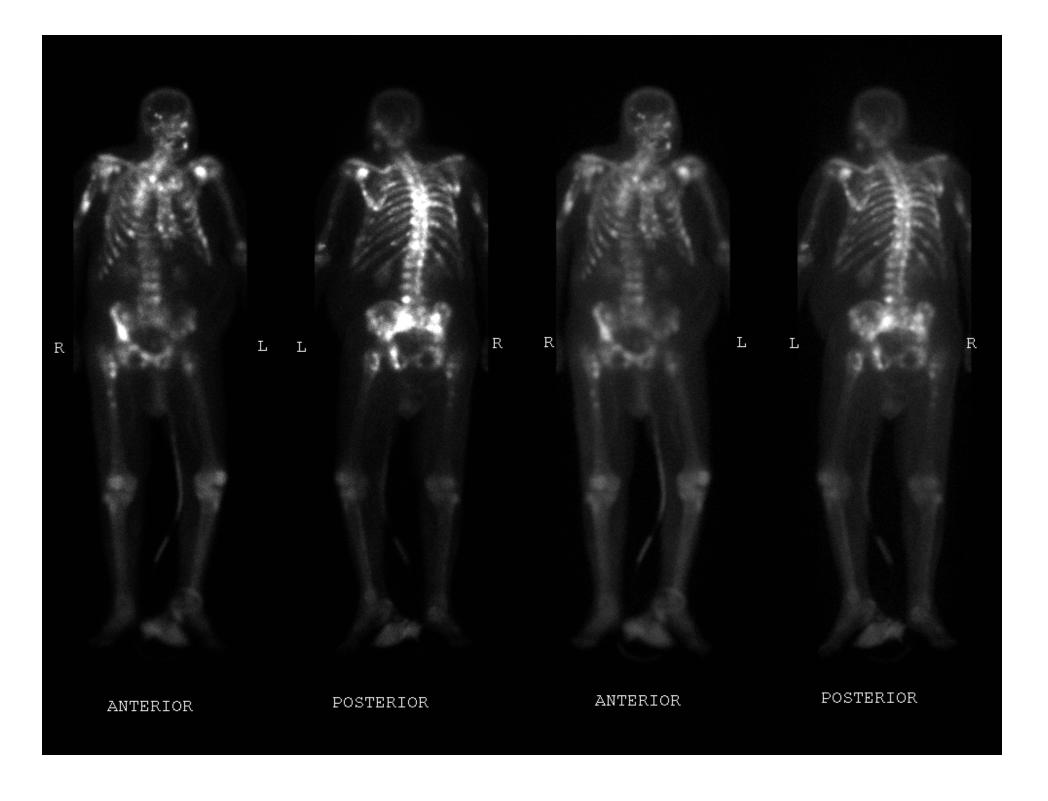


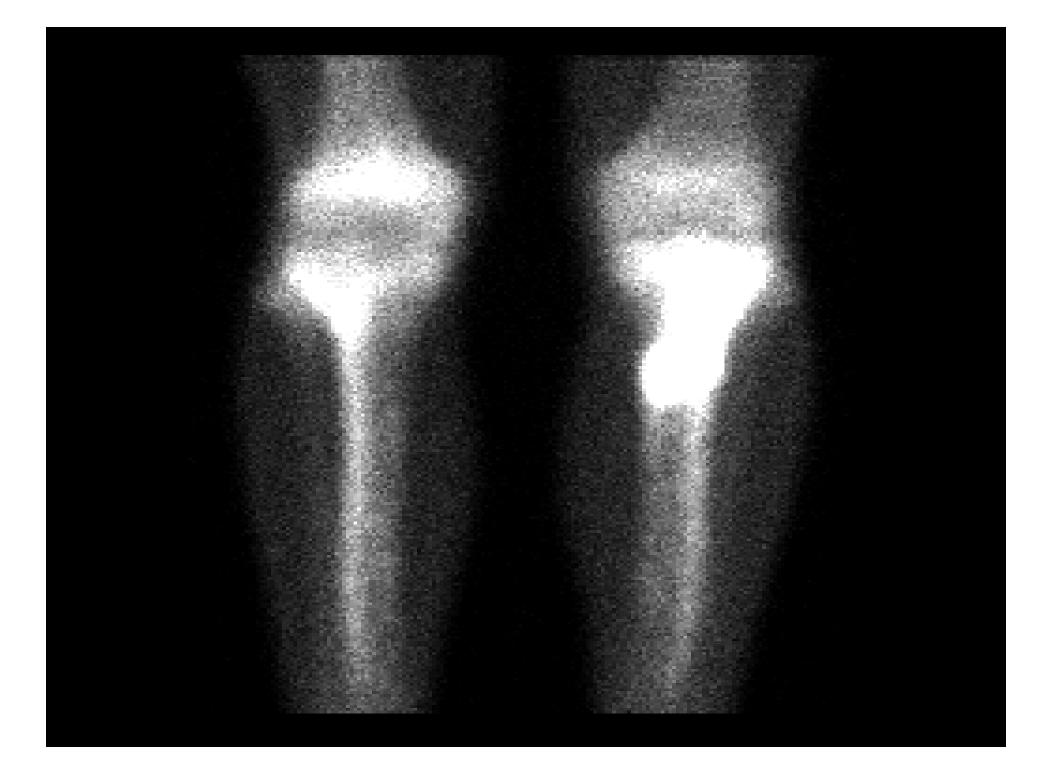
Bone scans

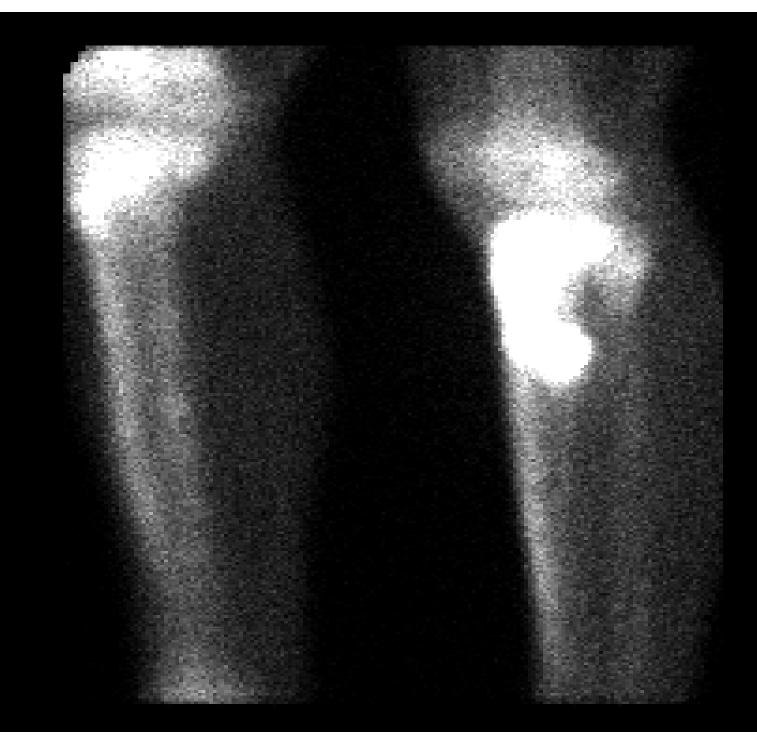
- Reasons to have a bone scan:
 - Fractures
 - Bone metastases
 - To investigate unexplained bone or back pain
 - Follow up lesion seen on plain x-ray
 - A vascular necrosis

Reasons to have a bone scan:

- Investigate possible child abuse
- To establish viability of bone graph
- Reflex sympathetic dystrophy (RSD)

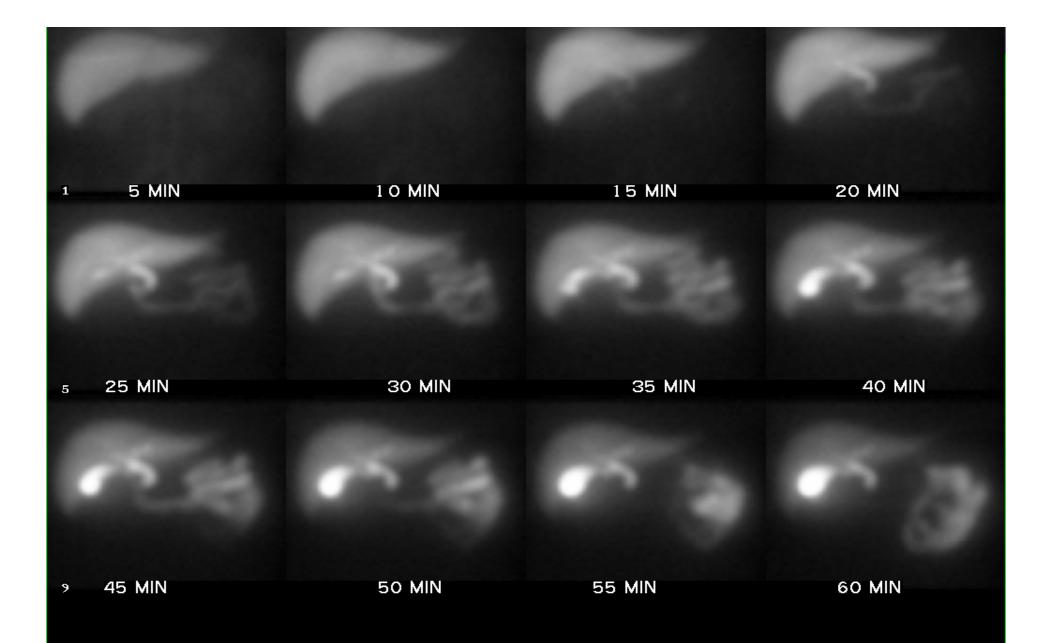






Hepatobiliary scans

- Reasons to have hepatobiliary scans:
 - To diagnose suspected acute cholecystitis
 - To investigate possible biliary obstruction
 - To detect biliary leak

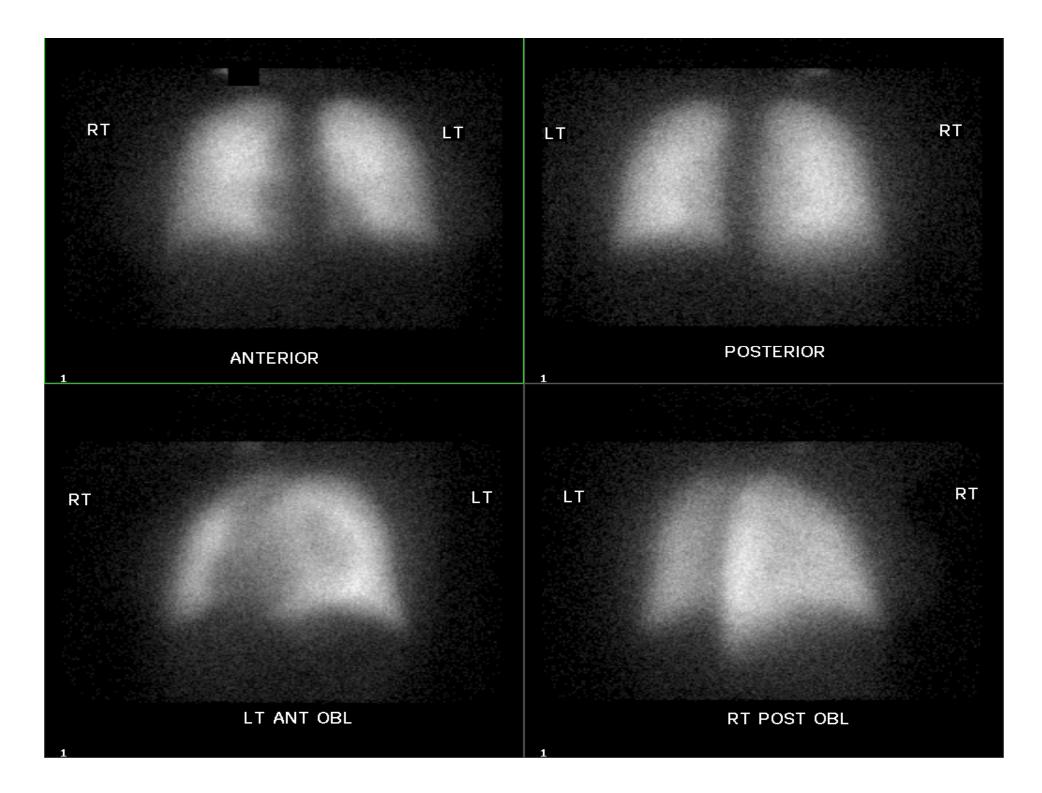


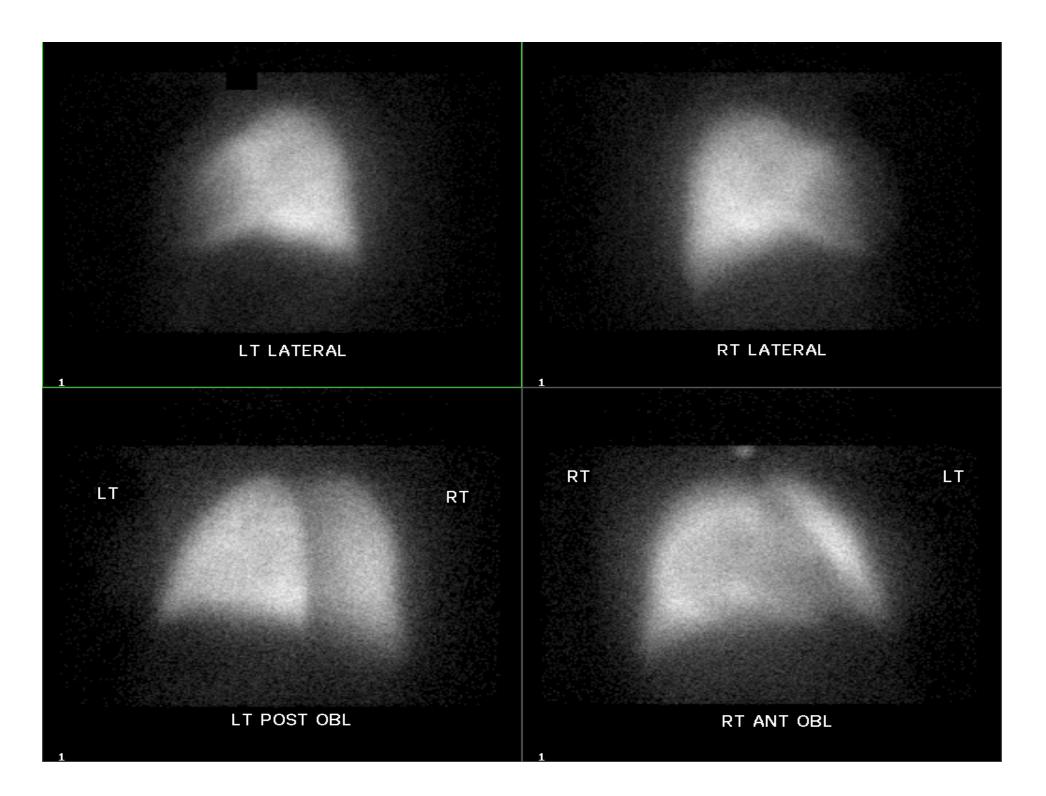
PRE MILK______ 30 MIN POST MILK 205733 CTS 92501 CTS

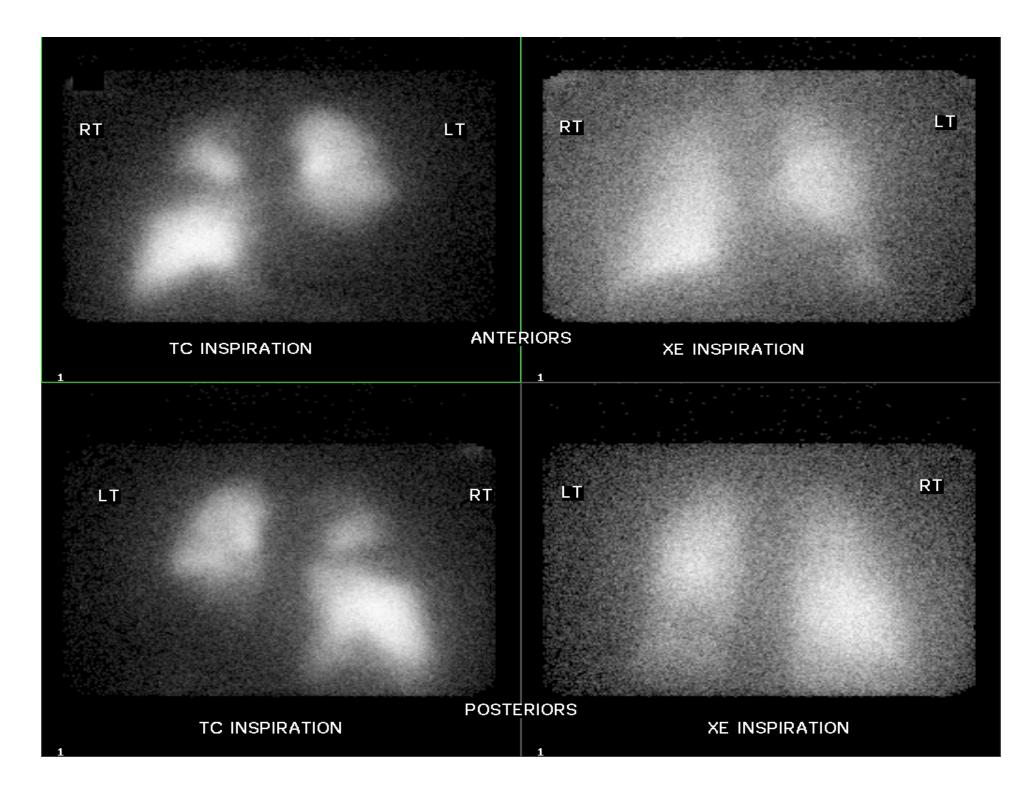
Total Ejection Fraction --Ejection Fraction: 52.40 % Ejection Rate: 1.71 %/min

Lung Imaging

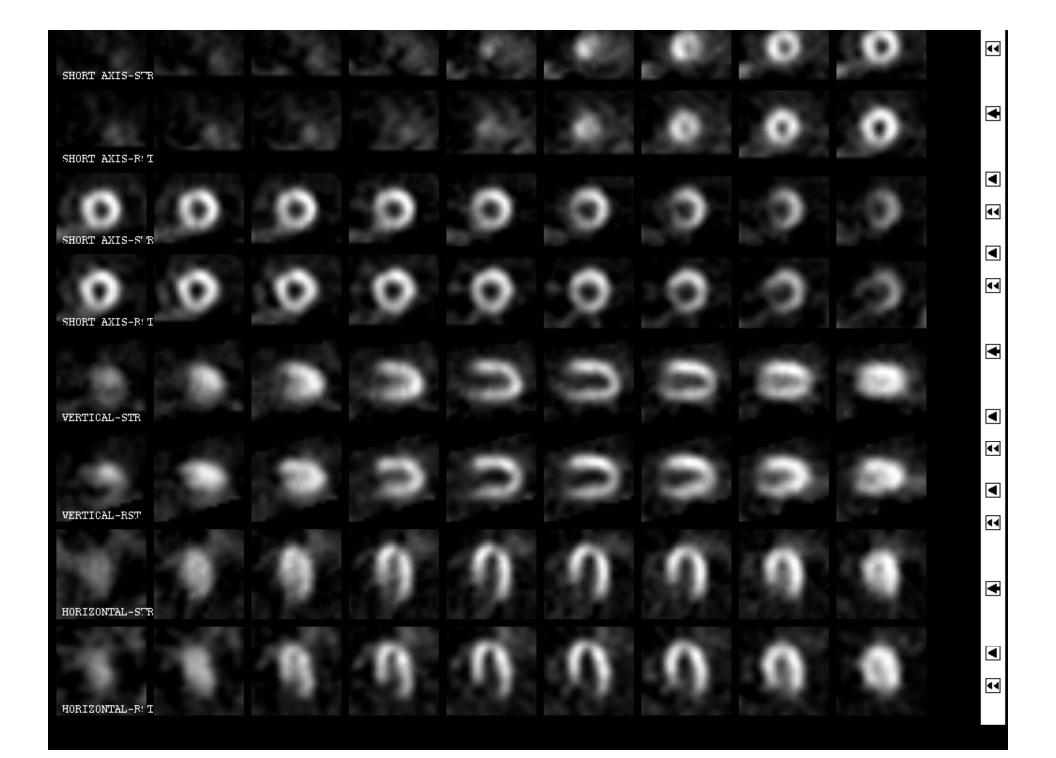
- Reasons for lung imaging:
 - To diagnose pulmonary embolism
 - To diagnose recurrence of pulmonary embolism
 - To predict quantitative residual lung function after lung surgery







- Myocardial perfusion imaging
 - Reasons for myocardial perfusion imaging:
 - To confirm known or suspected coronary artery disease
 - To differentiate between coronary and non-coronary chest pain
 - To assess cardiac risk for preoperative patients having surgery
 - Follow up patients after heart surgery



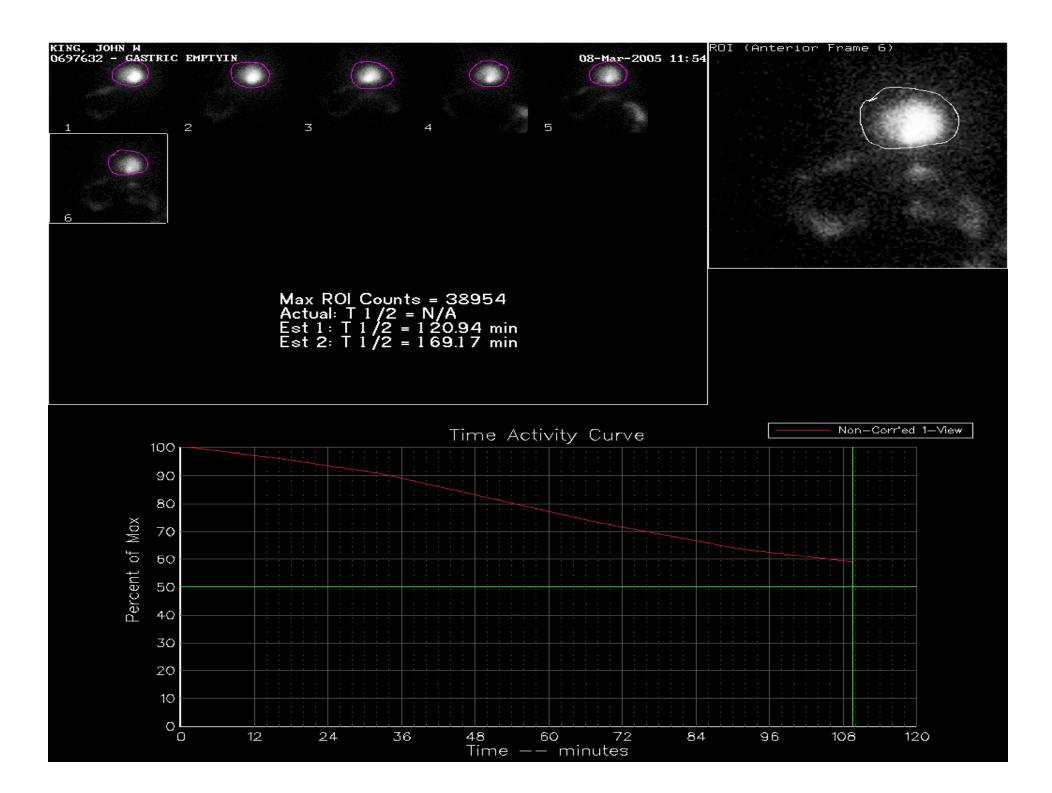
- Renal Imaging
 - Reasons for renal imaging :
 - To assess function of kidneys
 - To diagnose or exclude urinary tract obstruction

00	00						
51 Lasix Inj		63	64	65	66	67	68
	LT						
59	POSTERIOR	71	72	73	74	75	76
77	78	79	80	81	82	83	84
35	86	87	88	89	90	91	92
93	94	95	96	97 RENAL SCAN W/LASIX: 60 SEC/FR			

Gastric Empty Study

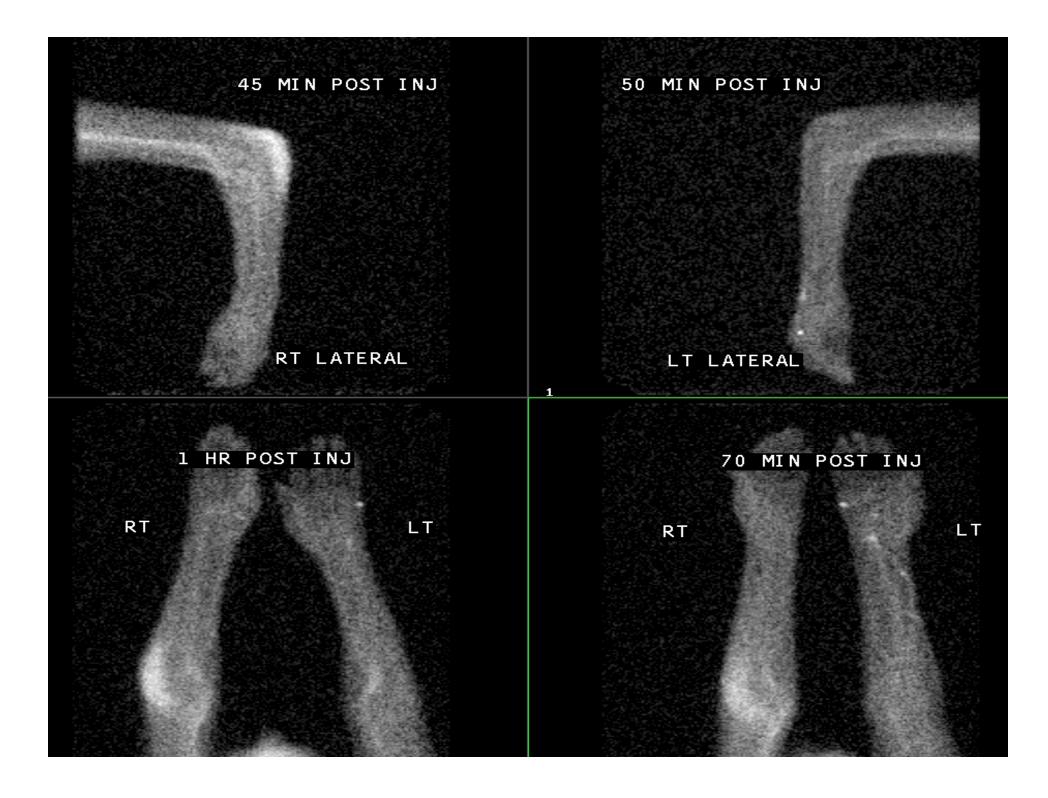
Reasons for gastric empty study:

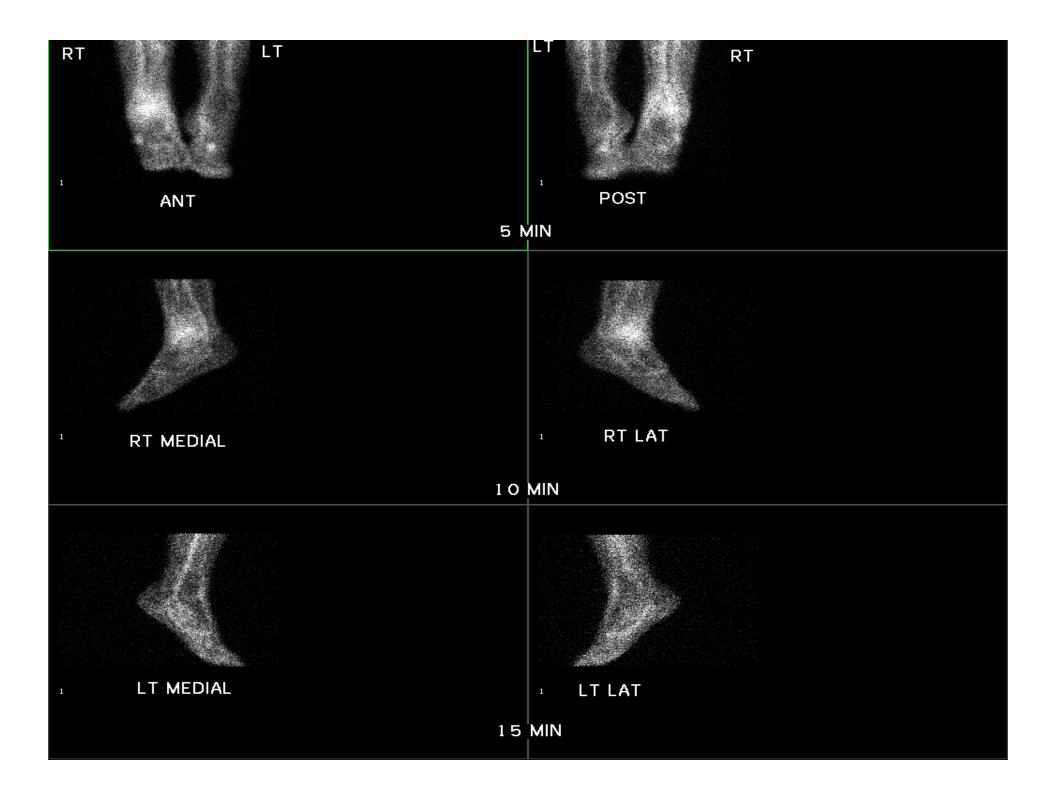
To determine emptying rate of stomach



Infectious Imaging

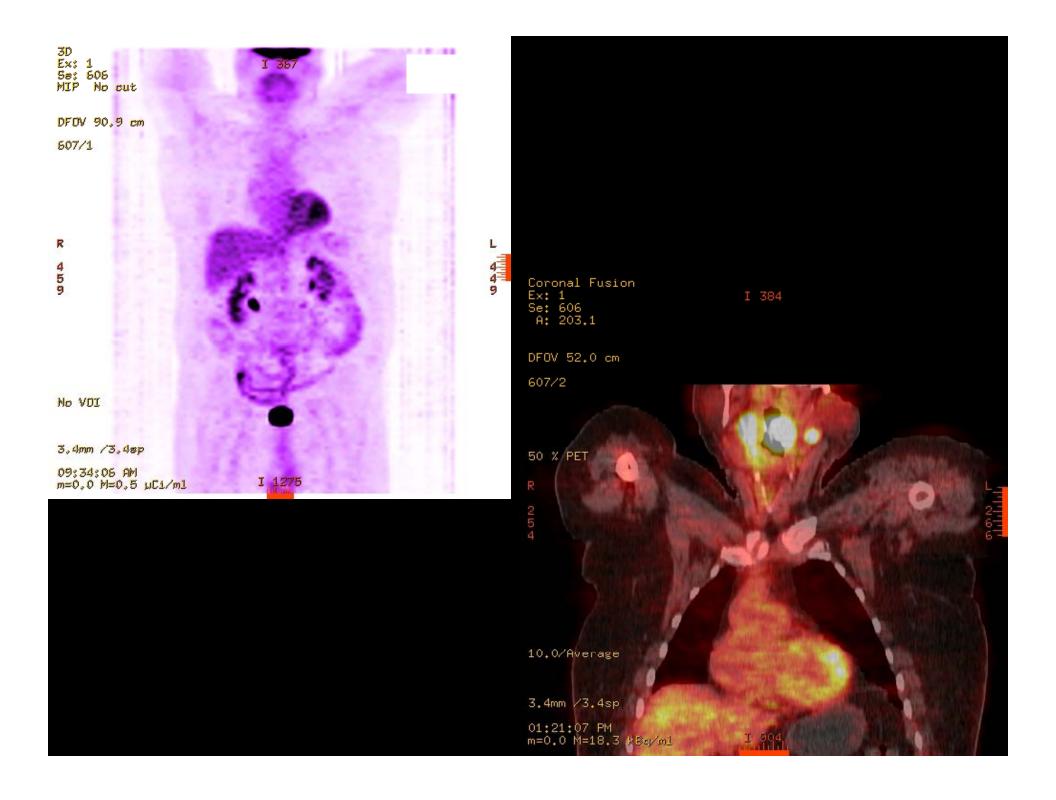
 Reasons for infectious imaging:
 To localize site of infection

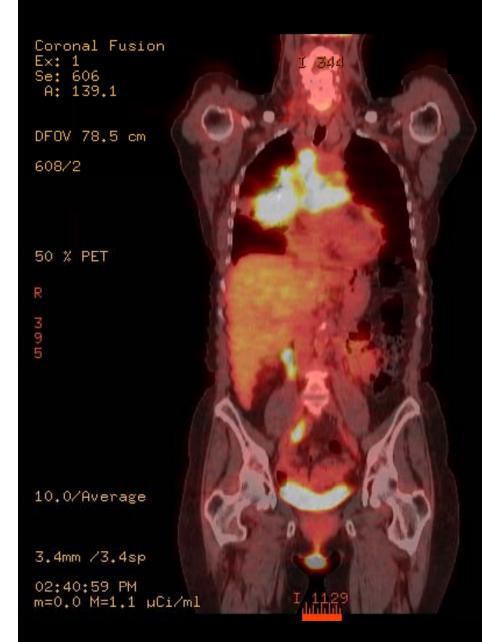




- Positron Emission Tomography PET
 Reasons to have pet imaging:
 - Detect diagnose, stage, and restage cancer
 - Monitor cancer therapy
 - Myocardial viability
 - Evaluate patients for dementia







Coronal Fusion Ex: 1 / Se: 606 A: 101.9

> DFOV 78.5 cm 608/3

50 % PET

10.0/Average

3.4mm /3.4sp

02:40:59 PM m=0.0 M=1.1 µCi/ml

