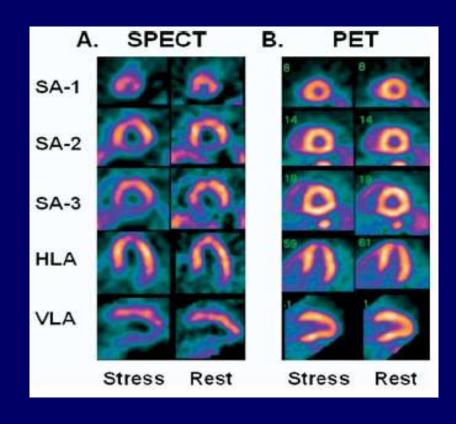
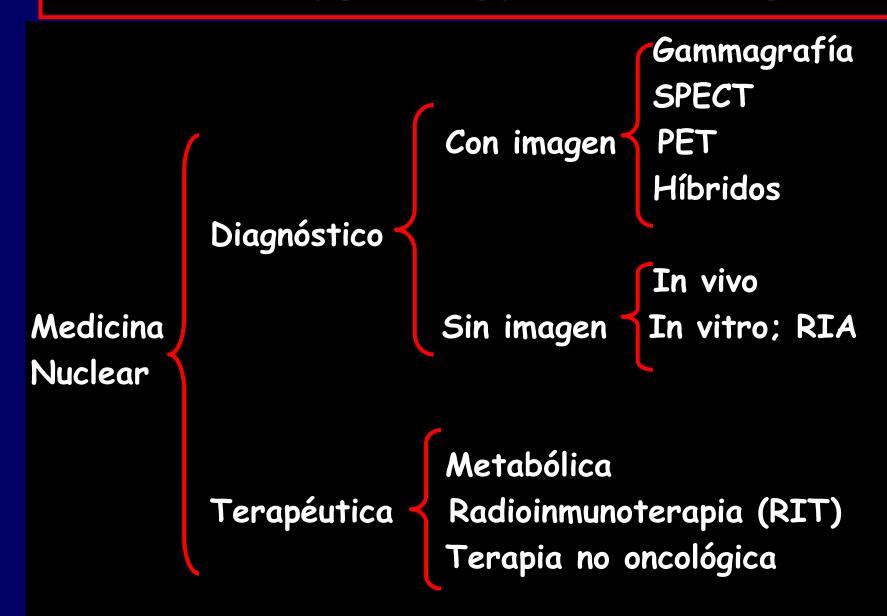
MEDICINA NUCLEAR



DEFINICION

"Especialidad médica que emplea radionúclidos, incorporándolos o relacionándolos, in vivo o in vitro, con alguna función orgánica, metabólica y celular con fines diagnósticos, terapéuticos o de investigación"

CAMPOS DE LA MEDICINA NUCLEAR



BASES TECNICAS

✓ INSTRUMENTACION

✓ RADIOFARMACIA

VENTAJAS

- ✓ No es invasiva
- Es funcional
- ✓ No produce molestias
- Bajo nivel radiación
- ✓ Rapidez entrega información

INDICACIONES

- ✓ Oncología Nuclear: PET y no PET
- ✓ Cardiología Nuclear
- Endocrinología Nuclear
- Neuropsiquiatría
- ✓ Nefrourología Nuclear

INDICACIONES

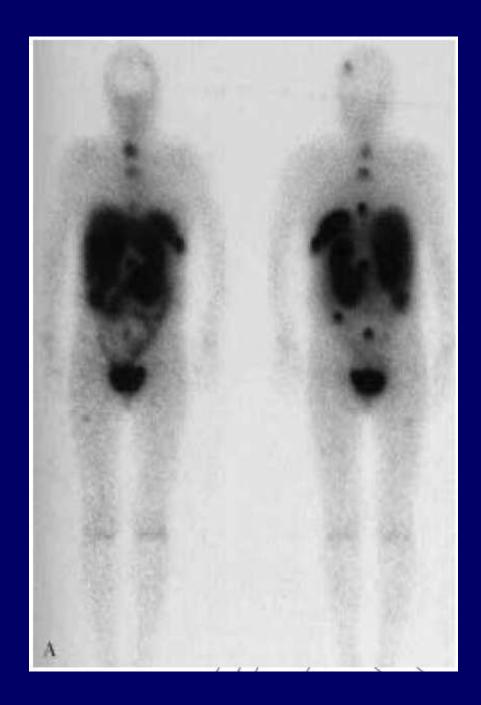
- ✓ Pediatría Nuclear
- ✓ Infección e inflamación
- ✓ Pulmonar
- ✓ Gastrointestinal/hepatobiliar
- ✓ Linfocistigrafía

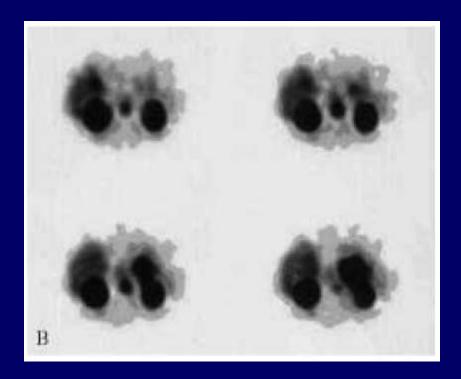
INDICACIONES

- ✓ Osteoarticular
- √ Vascular Periférico
- ✓ Hematología
- Emergencias
- Cirugía radioguiada

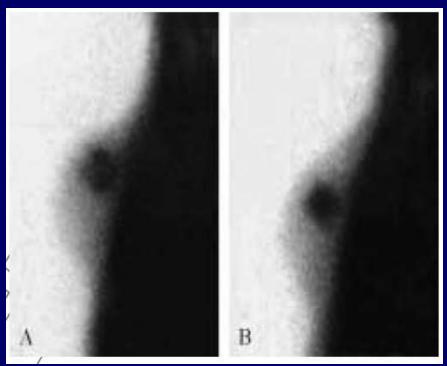
ONCOLOGIA NUCLEAR

- ✓ Diagnóstico y pronóstico
- ✓ Planificar tratamiento
- ✓ Monitorear tratamiento
- √ Viabilidad tumoral
- Hipoxia, angiogénesis y apoptosis





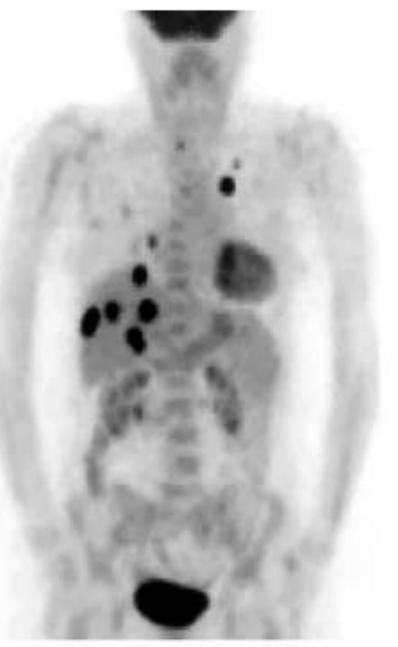






a.

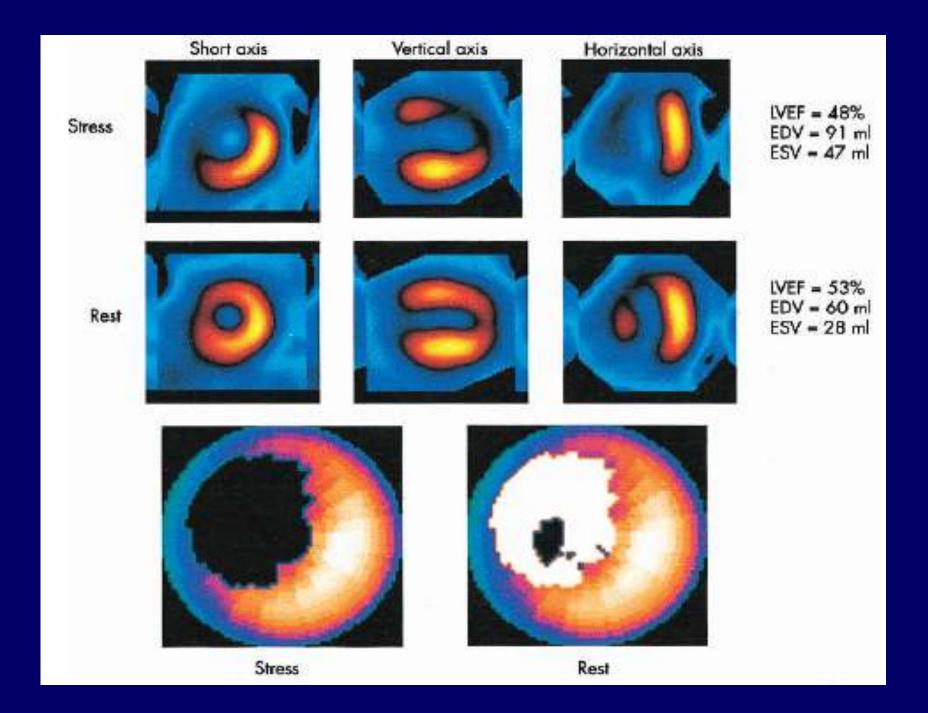
Figure 20. Primary rectal melanoma in a 68year-old woman. CT and FDG PET were performed to evaluate the extent of disease. (a) CT scan shows no evidence of metastases. (CT was performed to study the abdomen and pelvis only.) (b) Coronal FDG PET image obtained within 2 weeks of the CT study shows multiple hepatic and bilateral lung metastases.

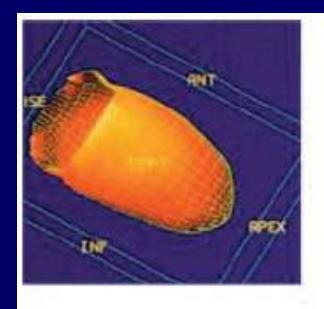


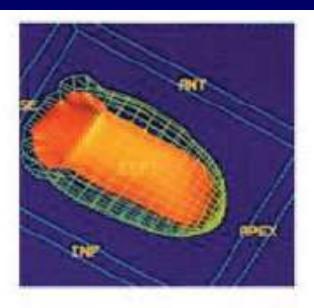
after before chemoradiotherapy chemoradiotherapy SUV

CARDIOLOGIA NUCLEAR

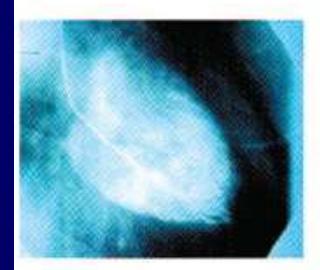
- ✓ Diagnóstico CAD
- ✓ Pronóstico y estratificación de riesgo
- ✓ Viabilidad miocárdica
- ✓ Función ventricular
- ✓ Ateroesclerosis, apoptosis, etc



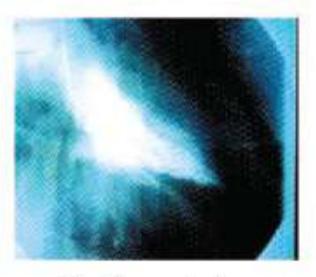




Gated perfusion SPECT LVEF 58%

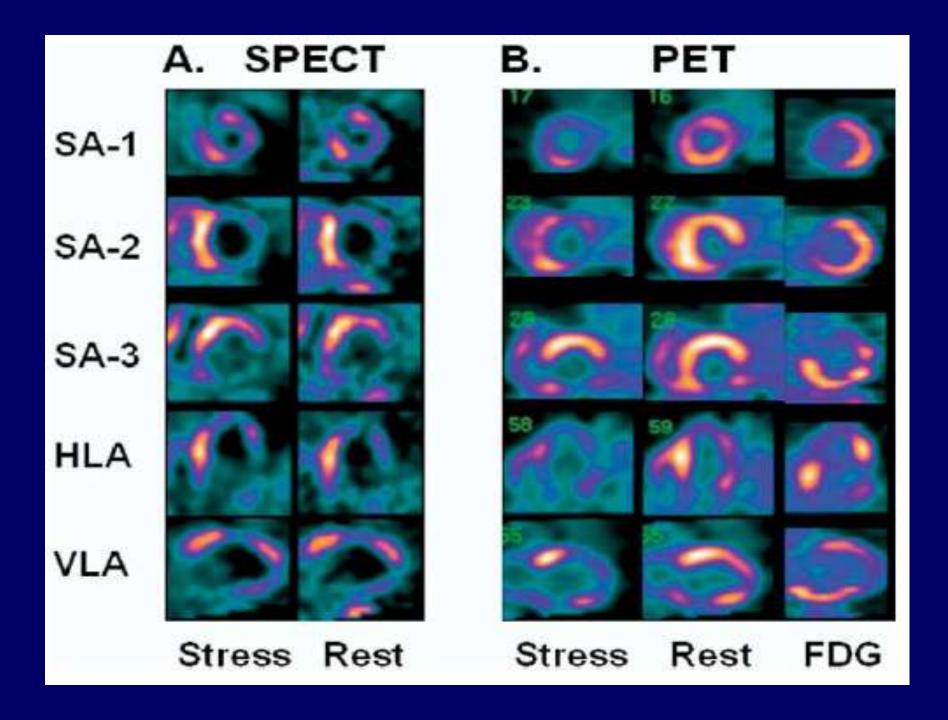






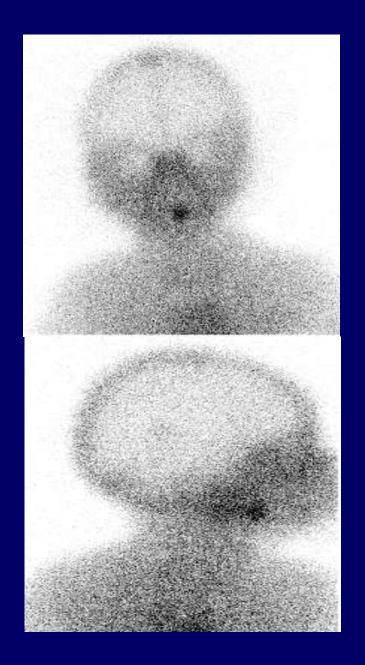
End-systole

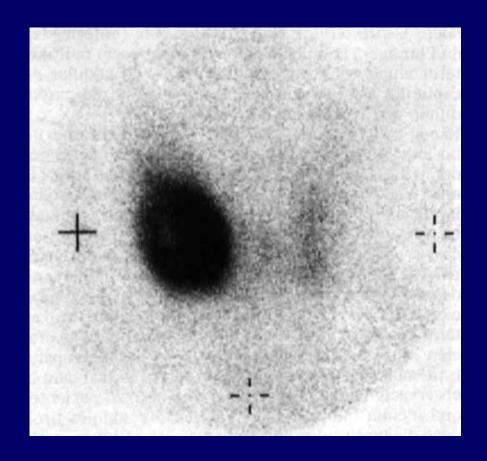
Contrast LVG LVEF 59%



ENDOCRINOLOGIA NUCLEAR

- ✓ Patología tiroidea
- Adenoma paratiroideo
- ✓ Tumores neuroendocrinos
- Adenomas corticales
- Seguimiento del CDT

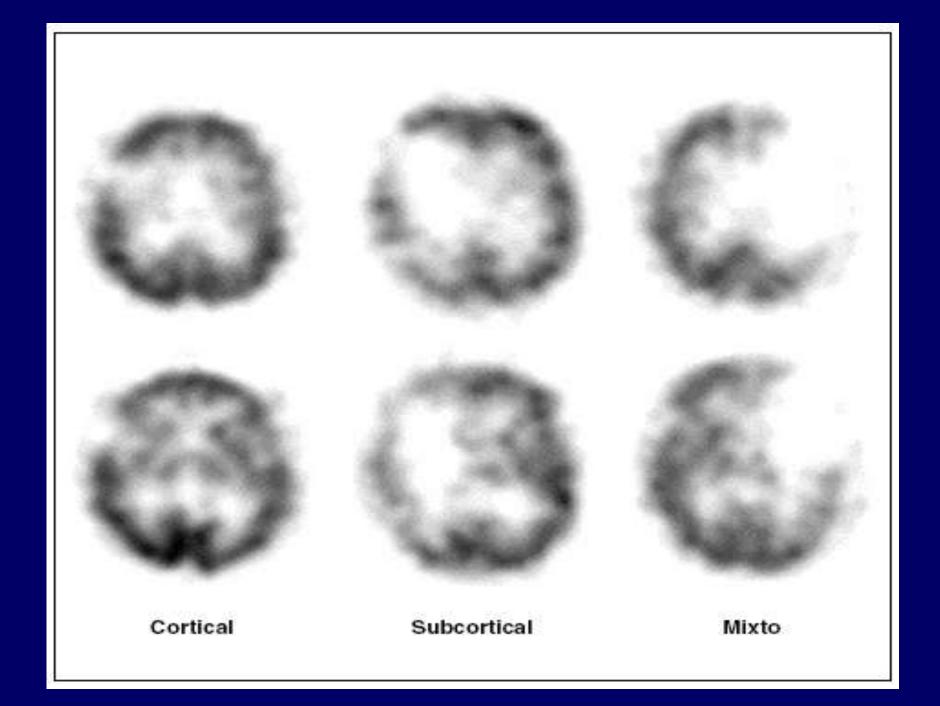


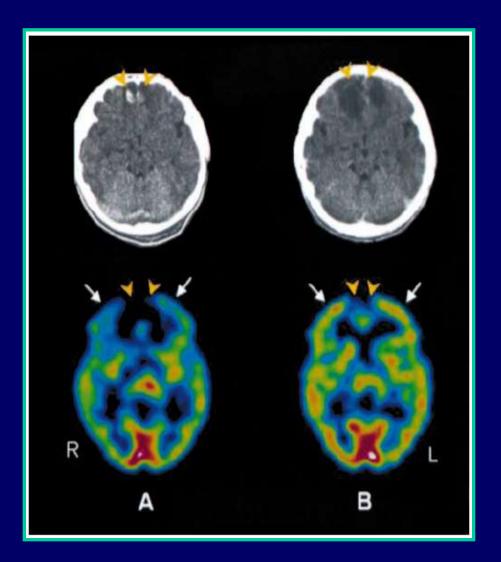


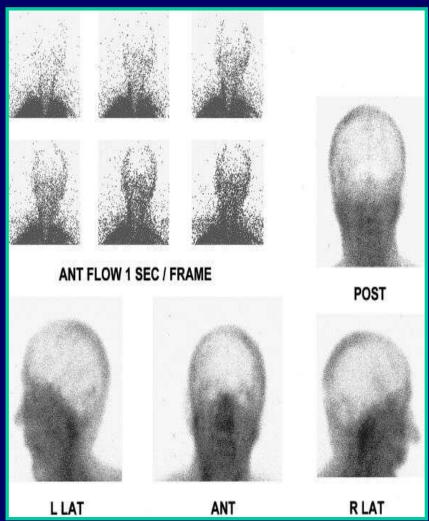
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NEUROPSIQUIATRIA

- Enfermedades cerebrovascualres
- ✓ Demencia
- Epilepsia
- Desórdenes psiquiátricos
- Activación y neuroreceptores

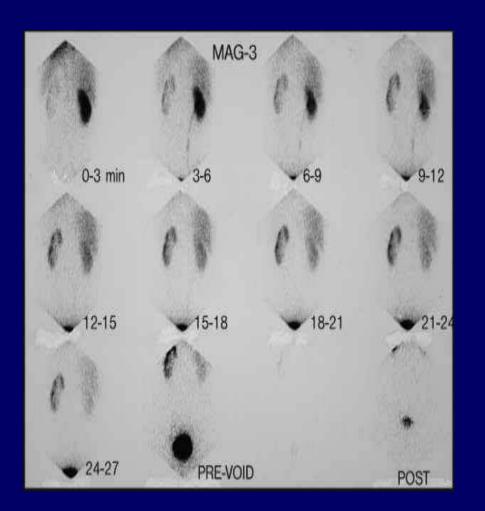


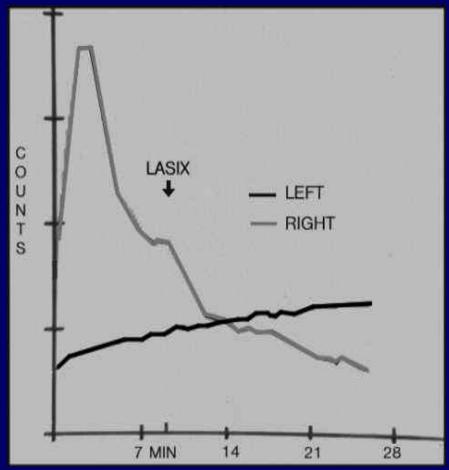


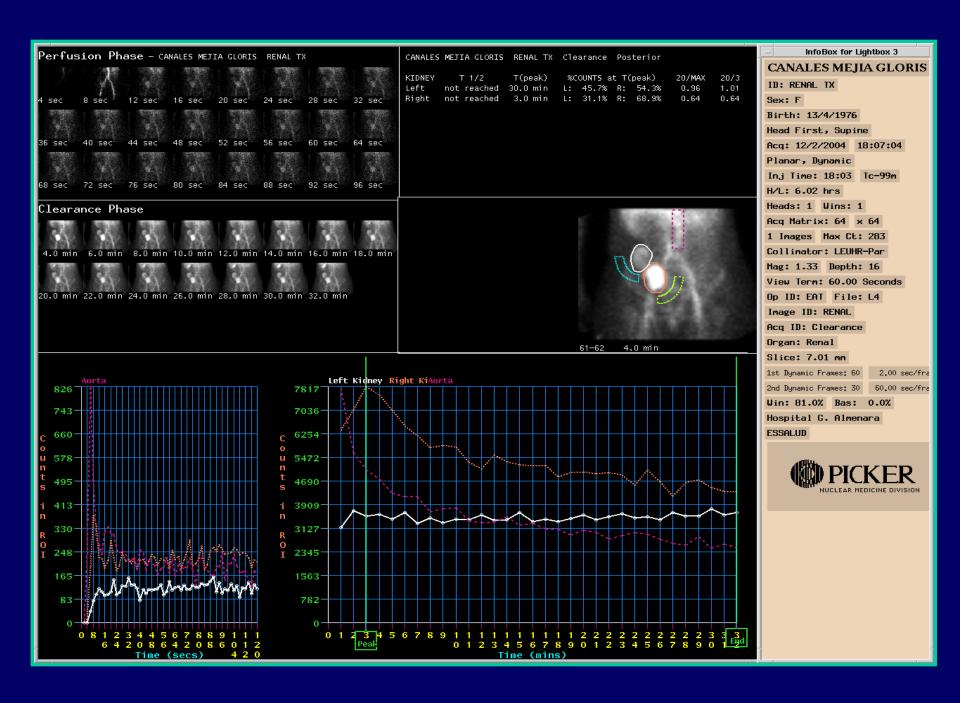


NEFROUROLOGIA NUCLEAR

- Hipertensión renovascular
- Uropatía obstructiva
- Pielonefritis aguda
- Trasplante renal

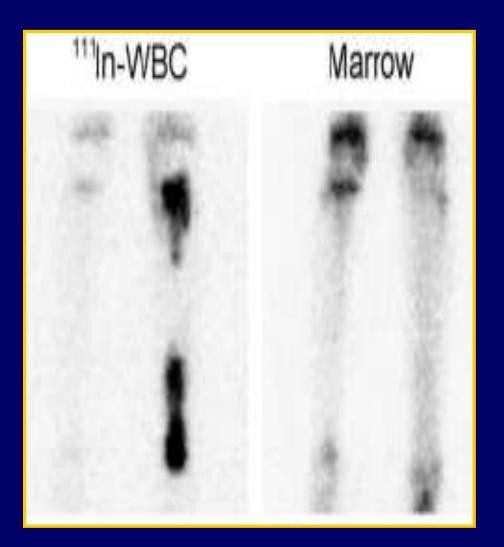




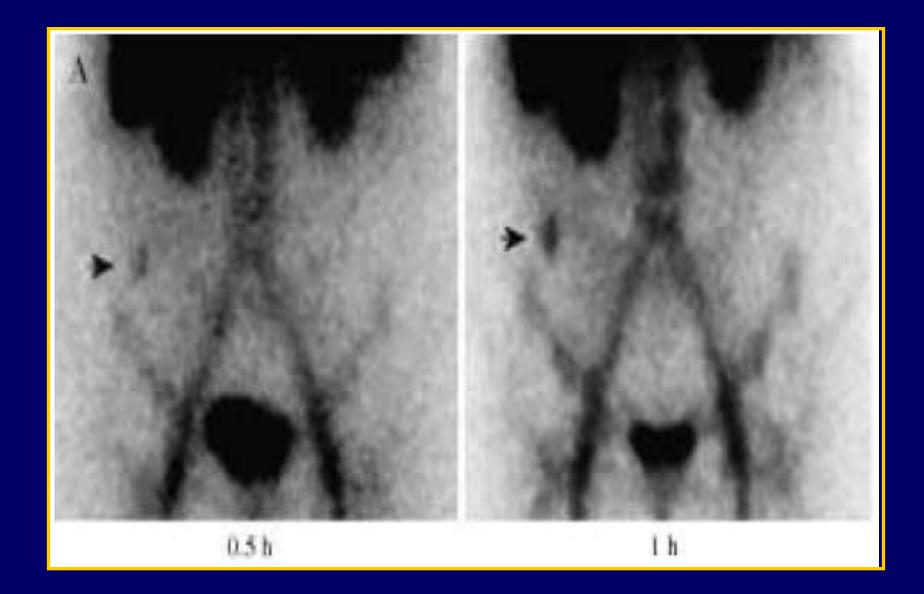


INFECCION E INFLAMACION

- ✓ Leucocitos marcados
- Antibióticos marcados
- Anticuerpos monoclonales
- Péptidos marcados







PULMONAR

- ✓ Diagnóstico y seguimiento de TEP
- ✓ Valoración preoperatoria
- Sindrome hepatopulmonar

