



Nucleaire Geneeskunde

Fysica en klinische toepassingen

Hugo de Jong, WND conferentie 17 dec 2022



UMC Utrecht

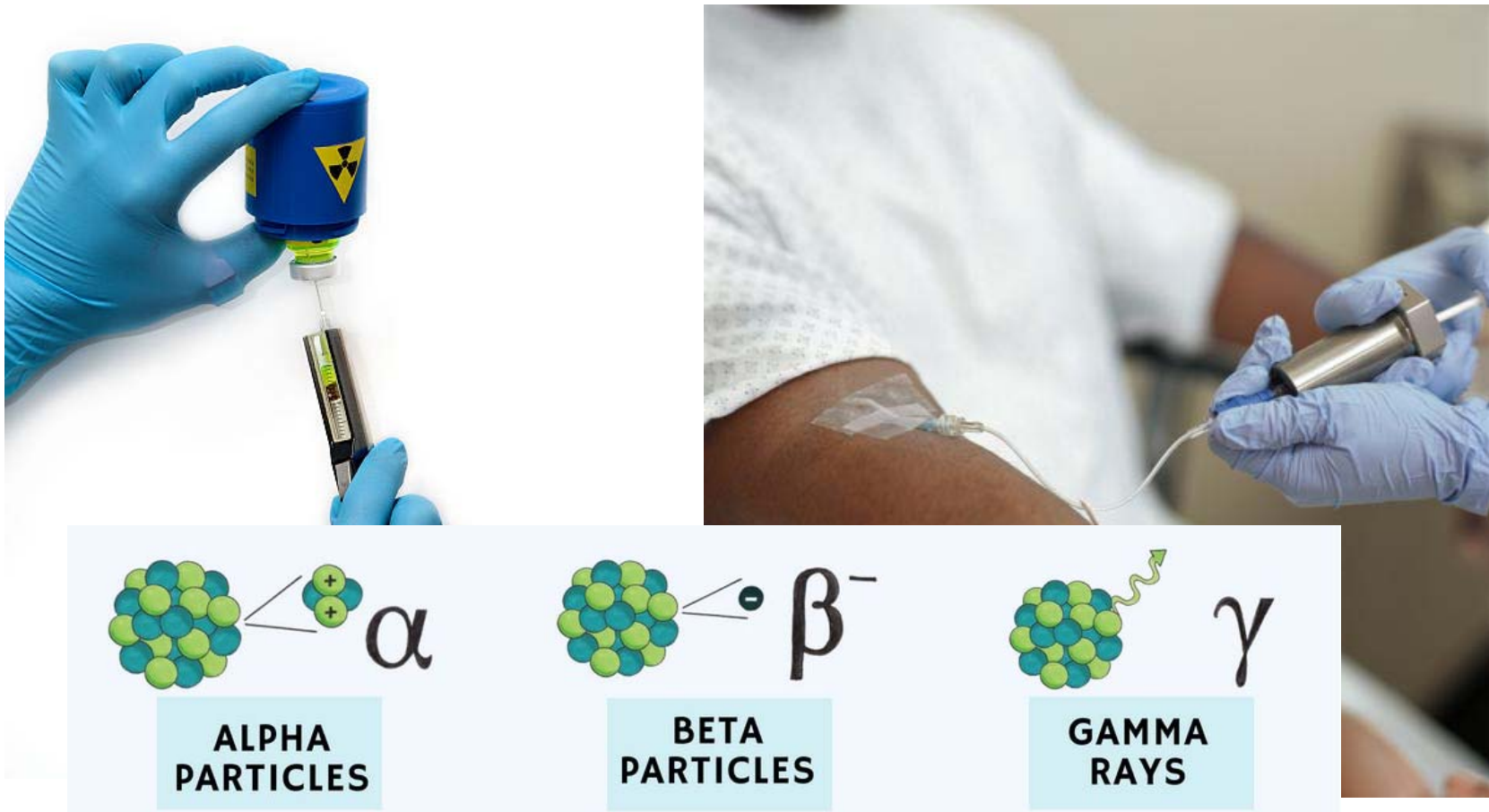
Over dokter Bart en zijn oom Ted

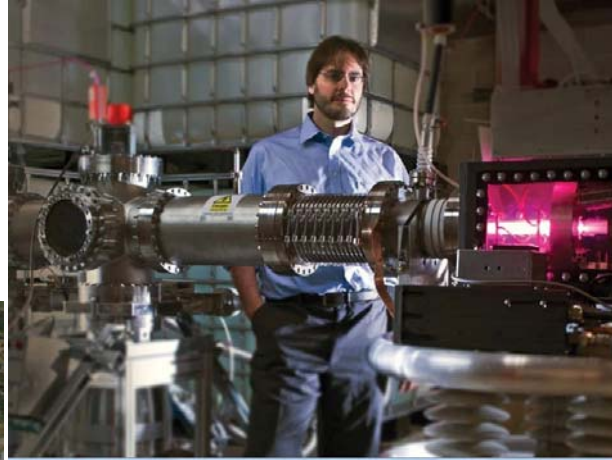


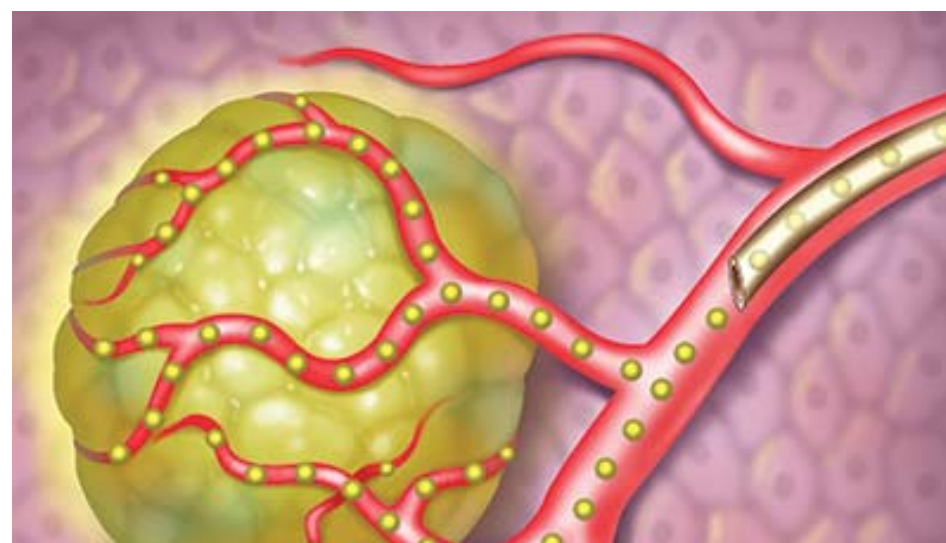
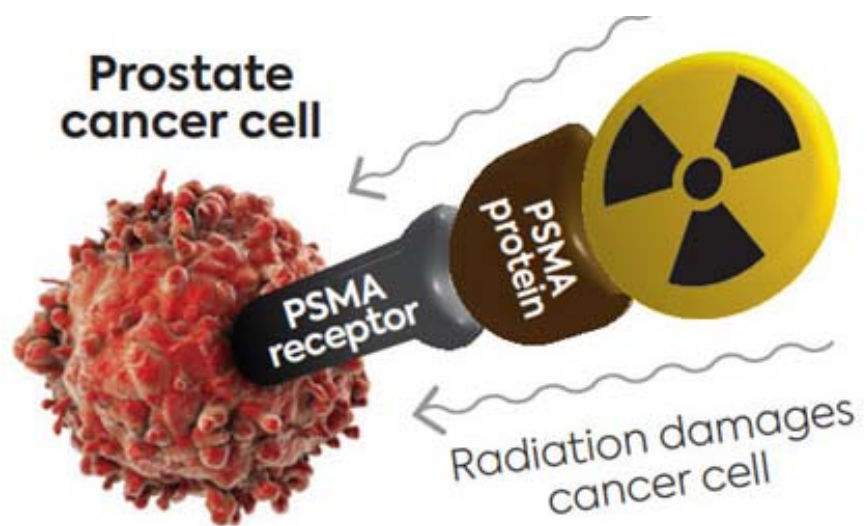


Nucleaire Geneeskunde

diagnostiek en therapie







SPECT



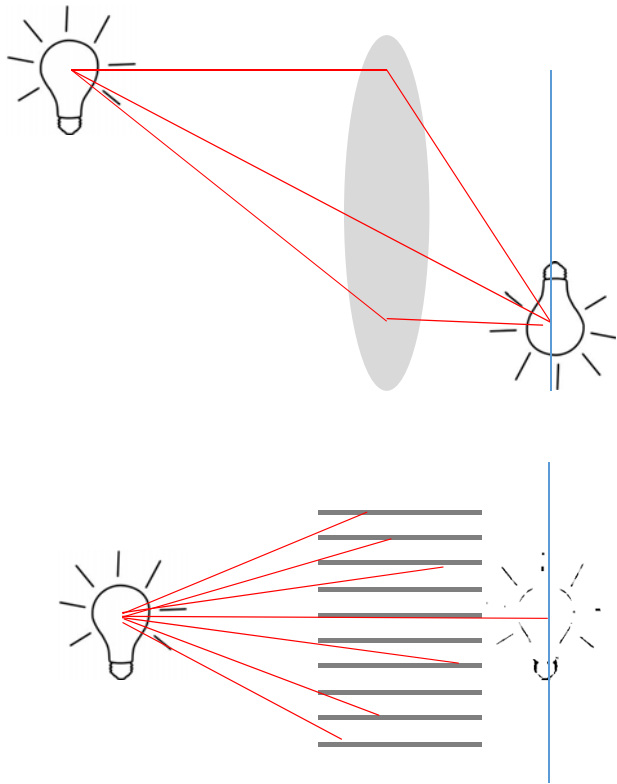
1956



2022



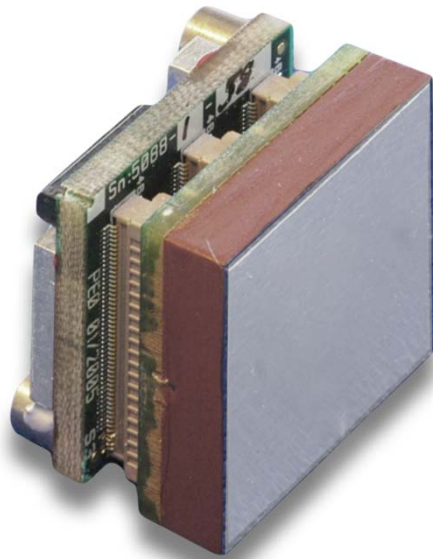
SPECT



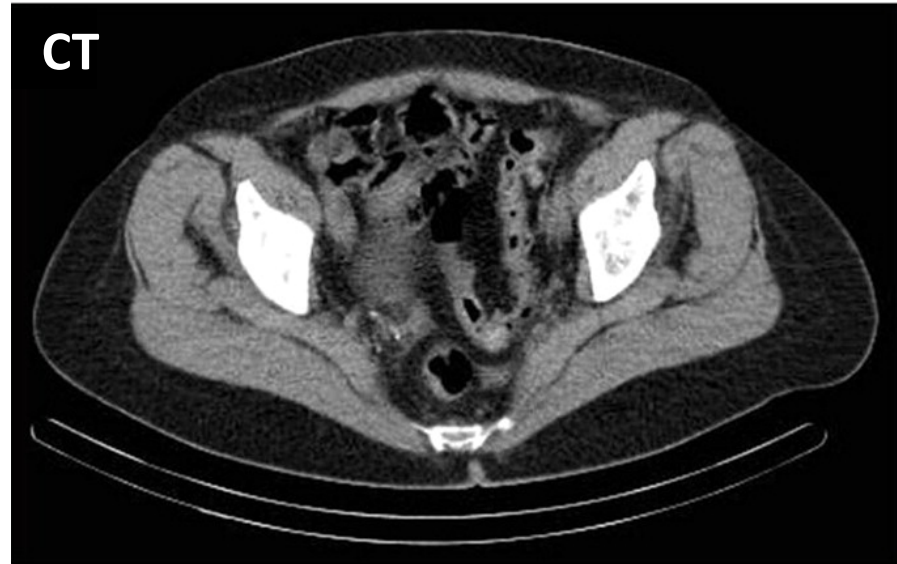
SPECT



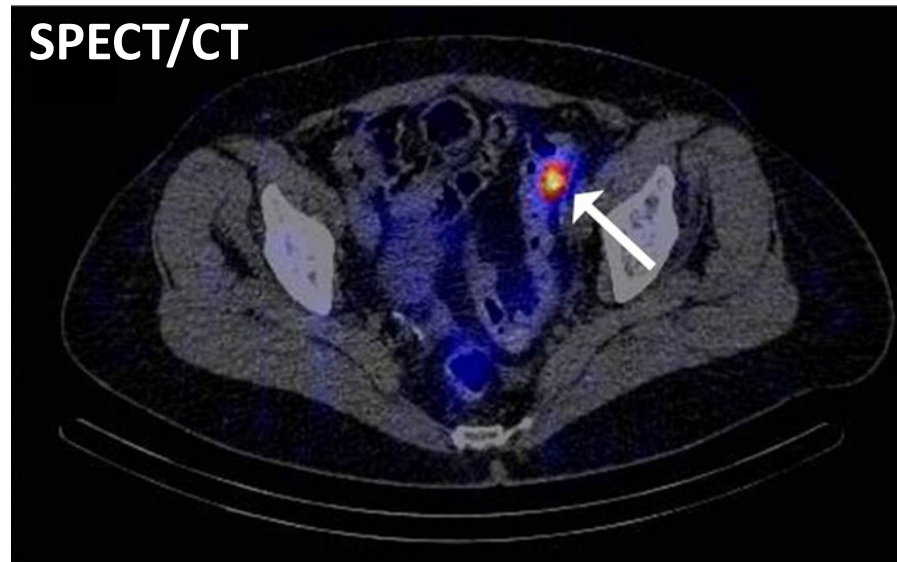
SPECT



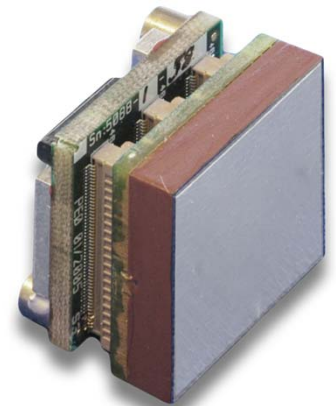
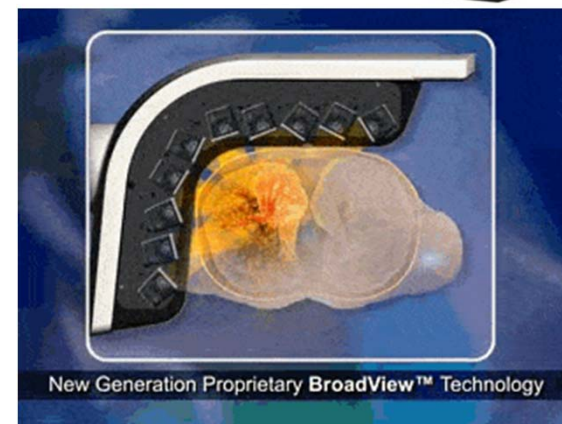
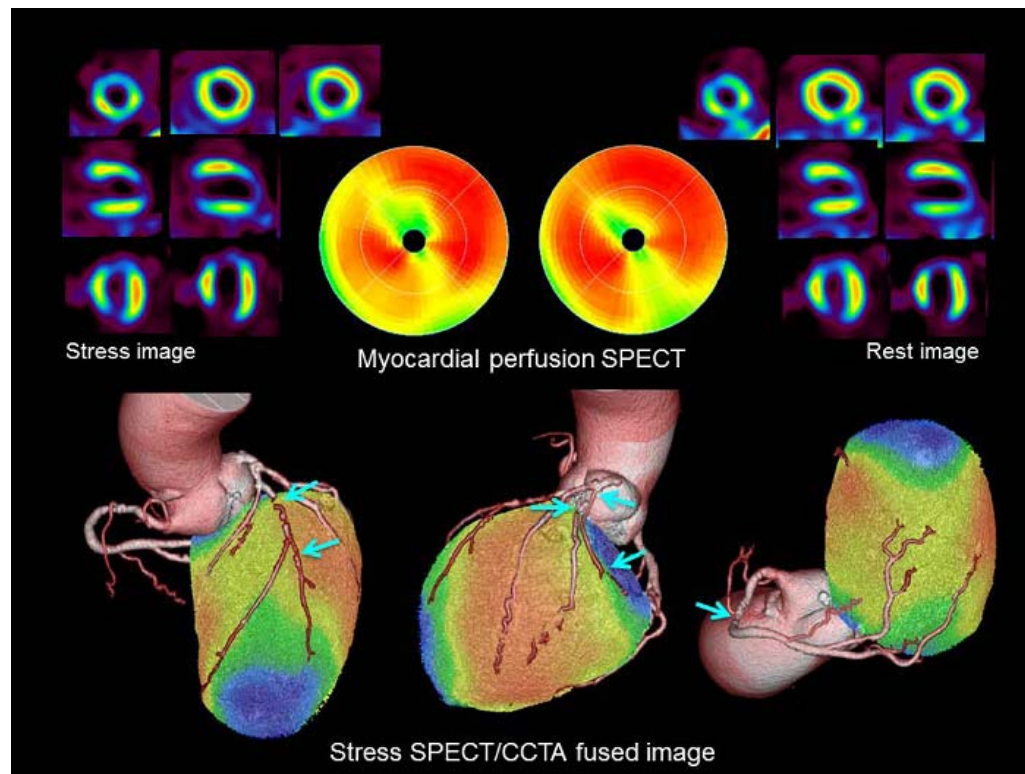
CT



SPECT/CT



Myocard Perfusion SPECT



30.000 per dag

19.049

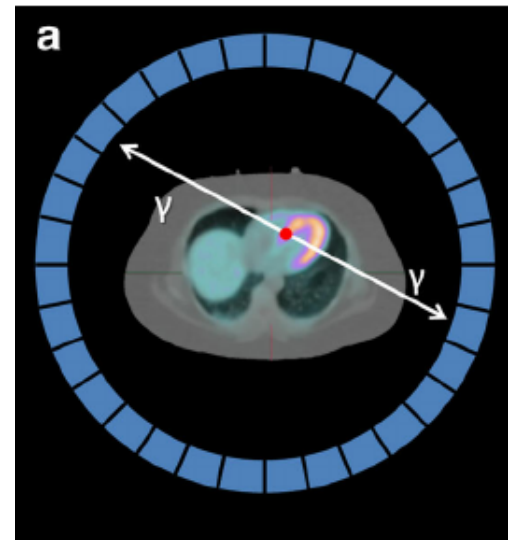
WELKOM OP 30.000 PER DAG

Elke dag worden ruim 30.000 mensen geholpen met isotopen uit Petten. Isotopen zijn het belangrijkste ingrediënt van nucleaire medicijnen; ze zijn hard nodig bij het opsporen en bestrijden van onder andere hart- en vaatziekten en kanker.

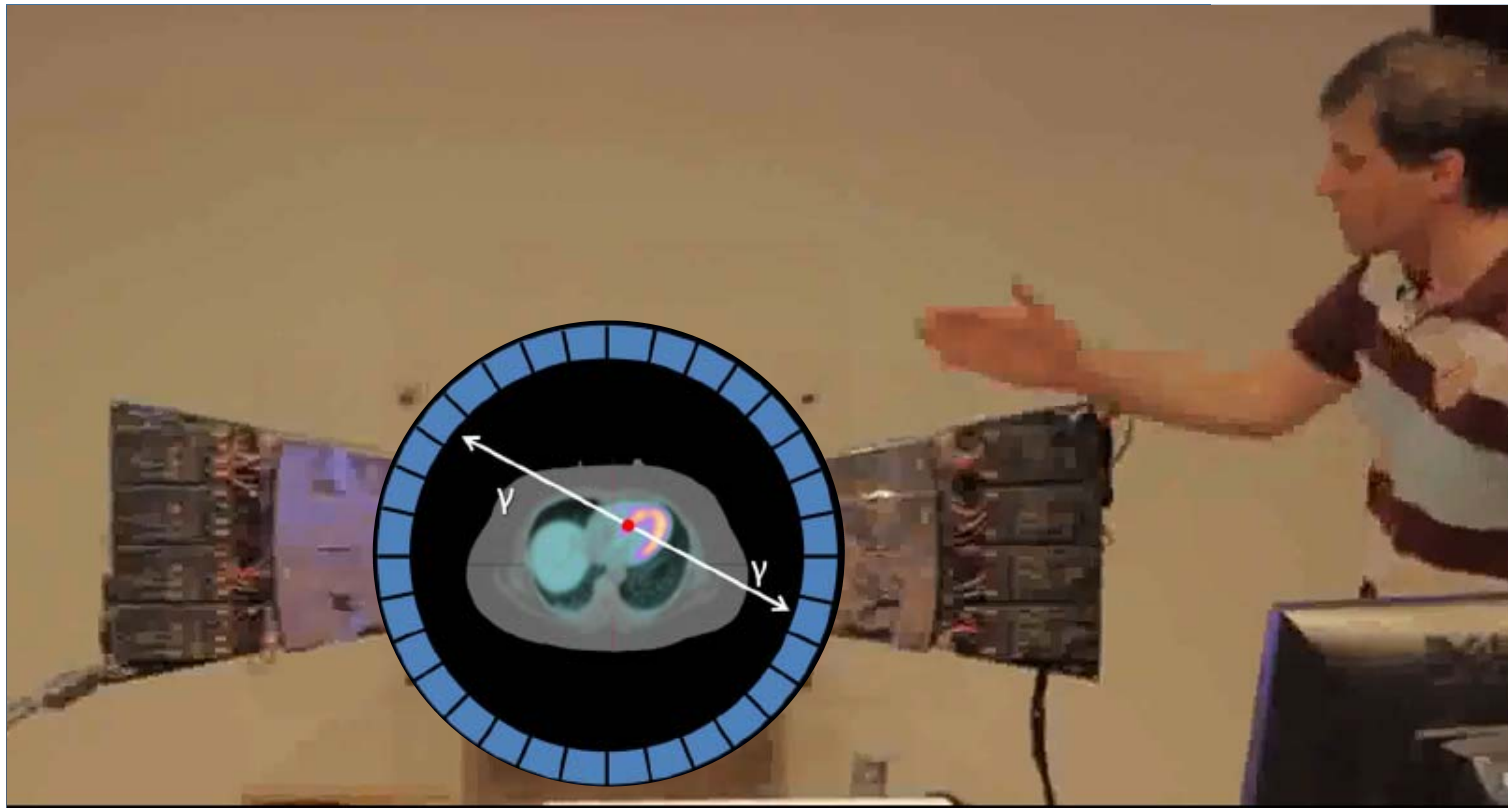
Ontdek hier hoe de isotopen uit Petten gemaakt, verwerkt en gebruikt worden om al deze mensen te helpen.



PET



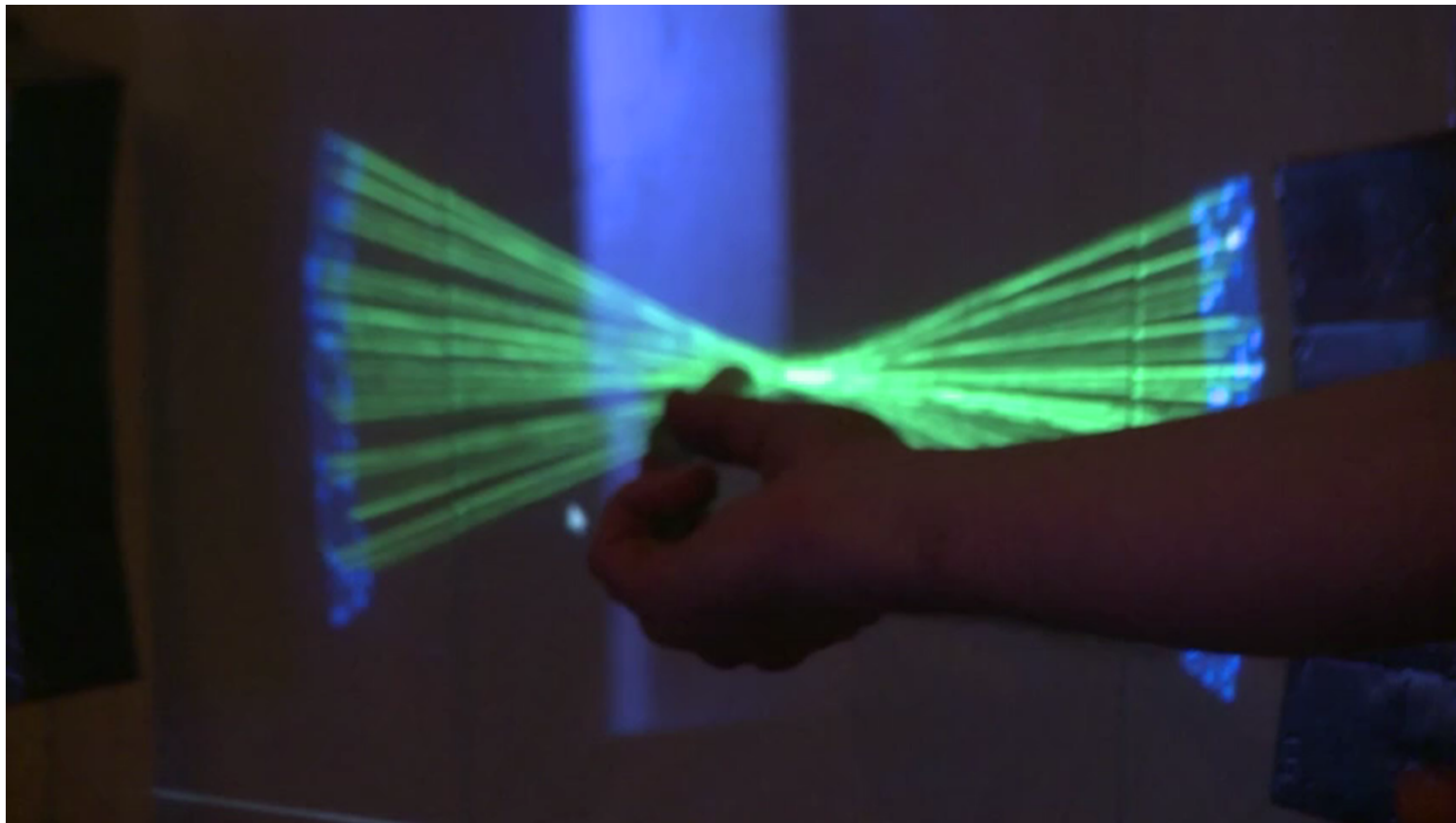
PET



[Courtesy of Insitute of Physics]



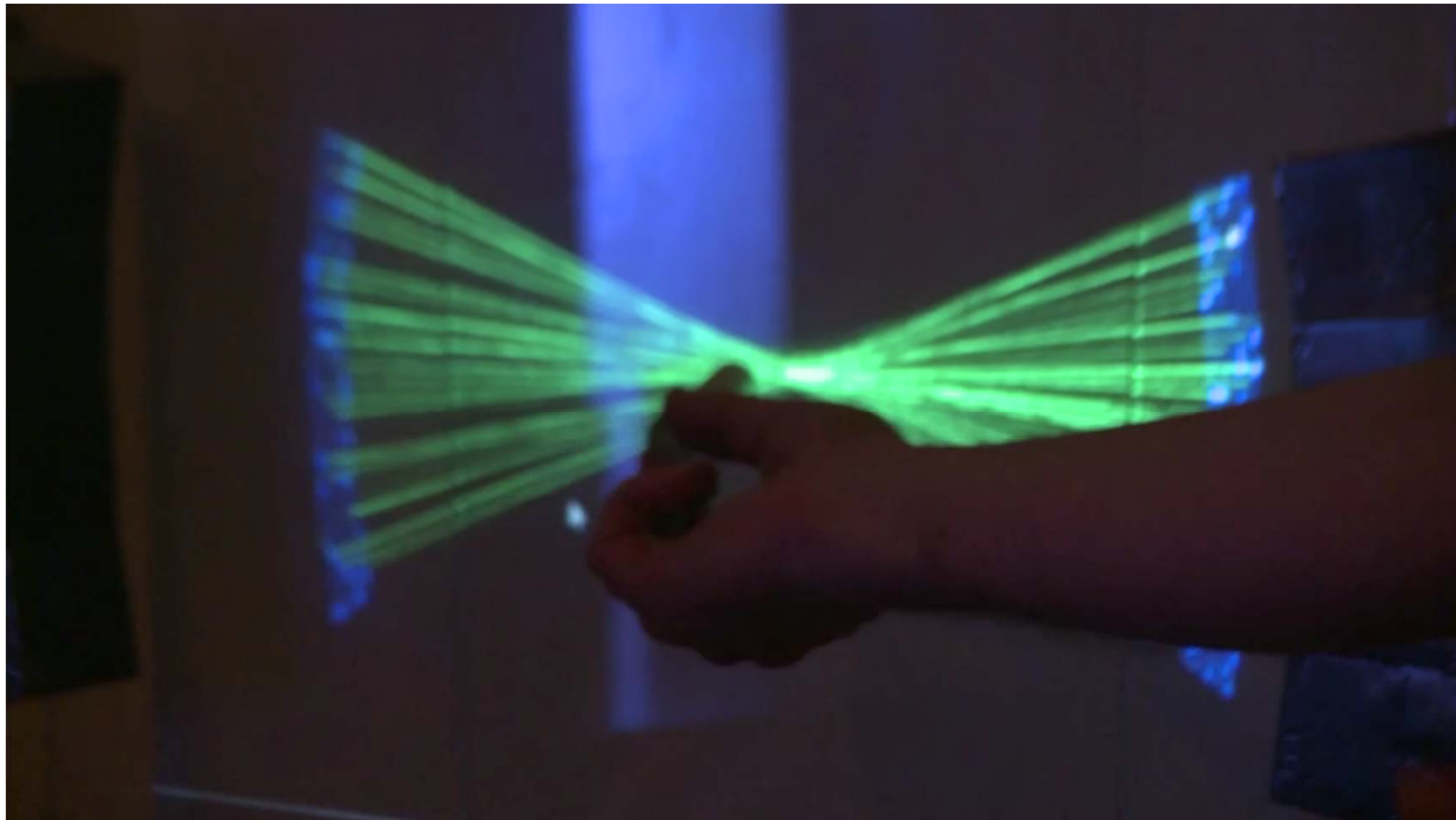
PET



[Courtesy of Insitute of Physics]



PET



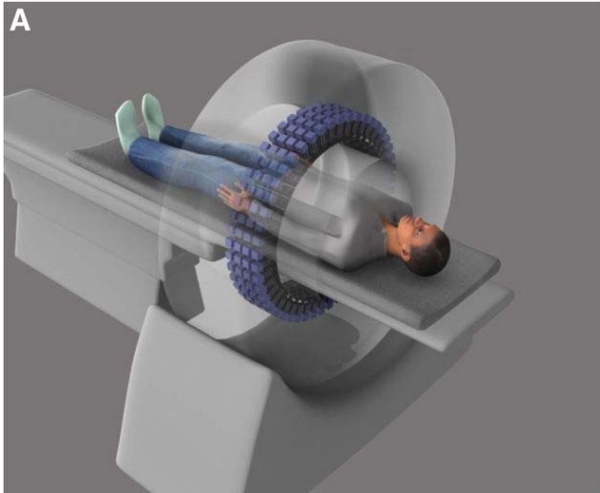
[Courtesy of Insitute of Physics]



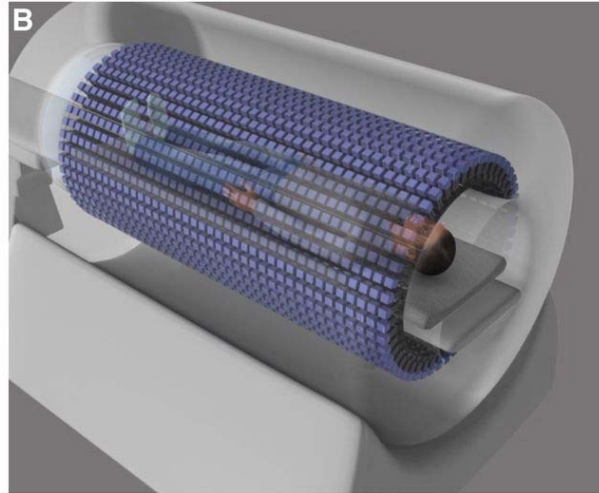
PET: Time of Flight



PET



standard

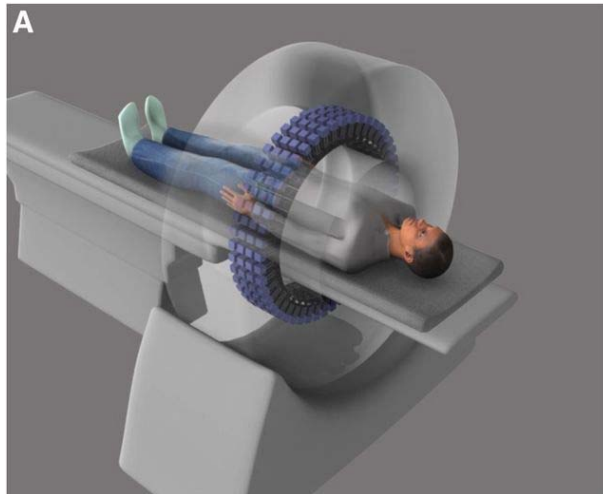


total body

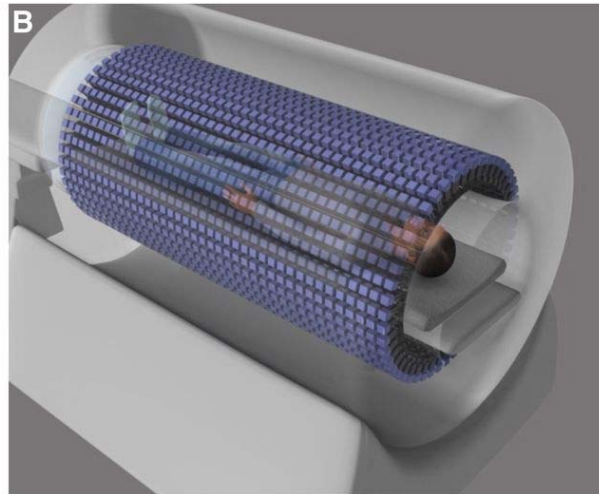
[Courtesy of Joyce van Sluis UMCG]



PET



standard



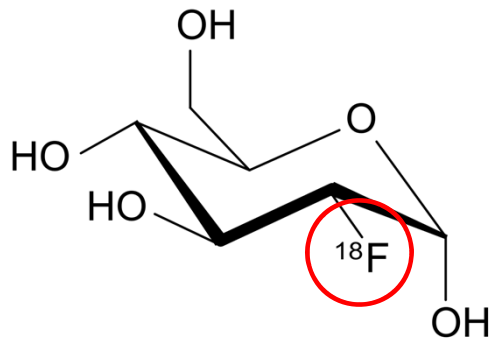
total body



[Courtesy of Joyce van Sluis UMCG]



PET #1: [^{18}F]Fluorodeoxyglucose (FDG)



PET en Radiotherapie

Nieuws

MR-Linac krijgt uitbreiding met MRI/PET

Door Dietske van der Brugge - 24 maart 2021



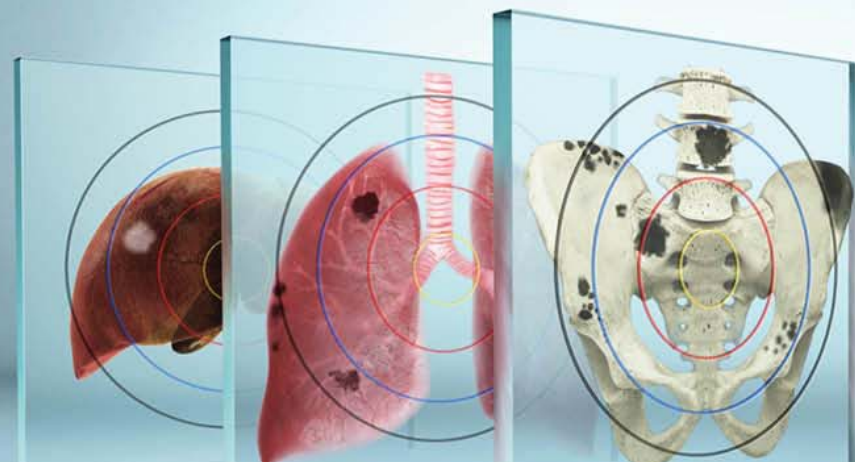
Radiotherapeut dr. Martijn Intven bij de MRI/PET-scanner



Vacatures

Functio
Full Tim
Vastgoe
Full Tim
Program
Vastgoe
Full Tim
Medisch
Full Tim
Inkoper
Full Tim





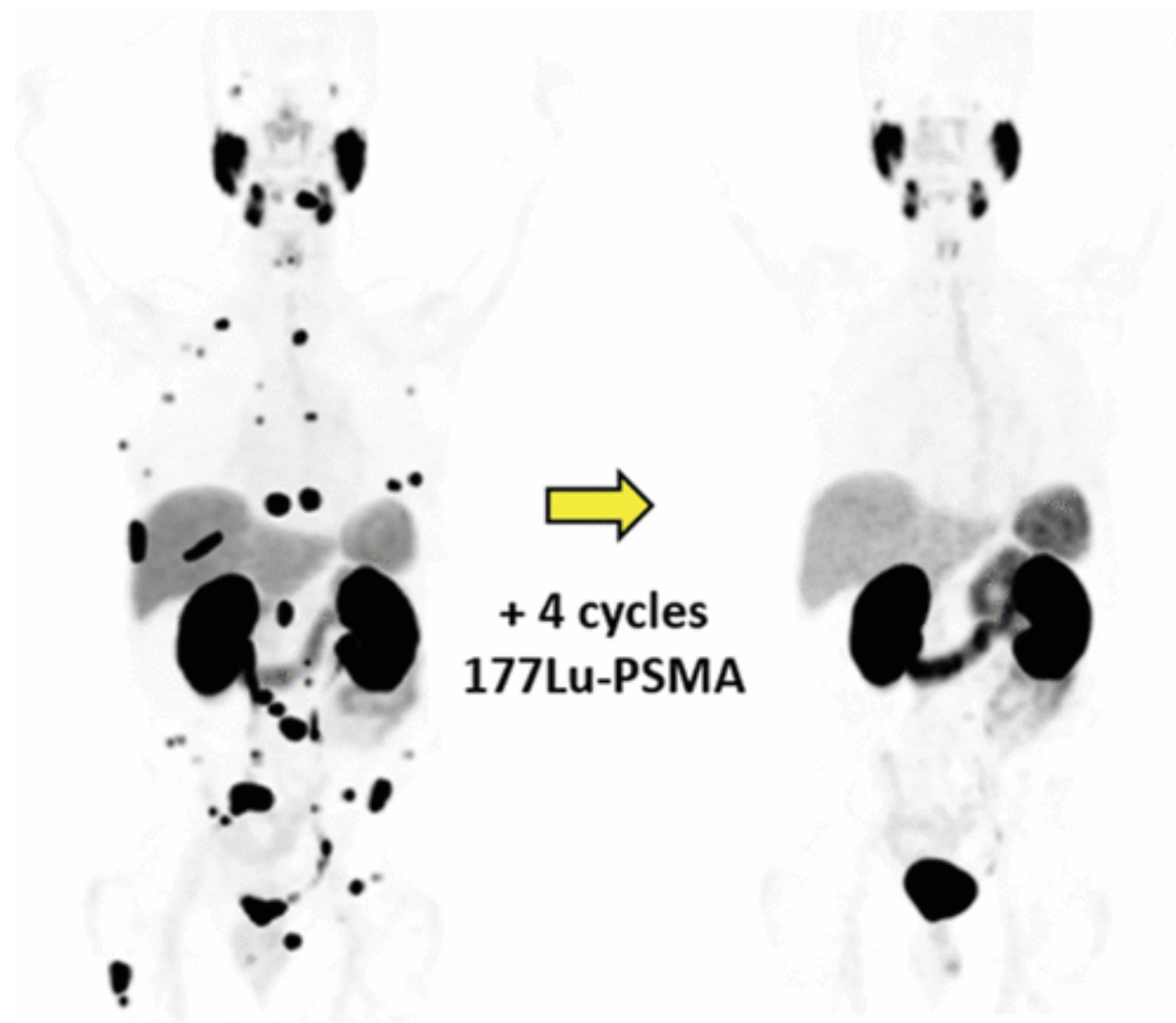
**Target PSMA+ mCRPC
wherever it goes—
bone, nodal, and
visceral metastases**

PLUVICTO™
lutetium Lu 177 vipivotide tetraxetan
INJECTION FOR INTRAVENOUS USE

HIGHLANDS
ONCOLOGY is now offering

LUTATHERA®
(lutetium Lu 177 dotatate)
injection, for intravenous use



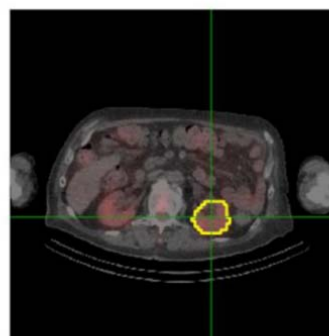


Radionuclide Therapy



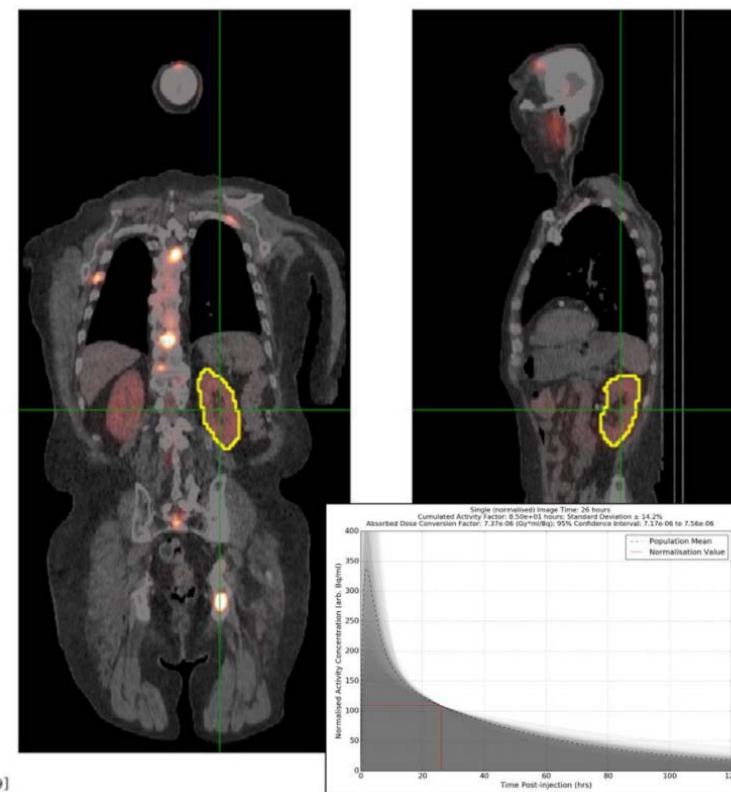
Lu-177 PSMA Dosimetry Analysis

WB QSPECT SUV D1 2021-07-16 11:43
5960 MBq
25.6 hours post-injection

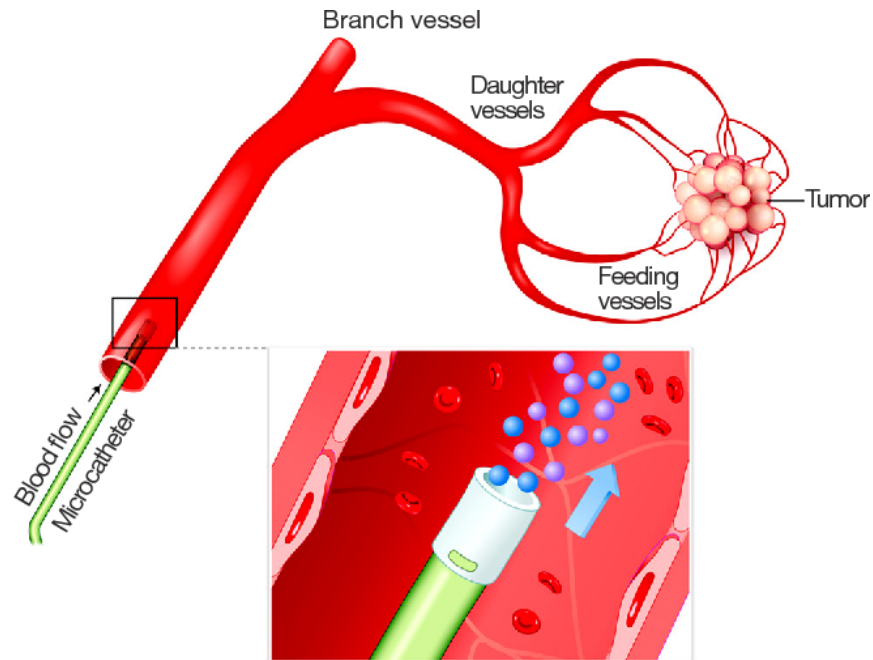


Label Name: lt_kidney
Estimated Radiation Dose (Gy): 1.3

VOI Volume (cc): 187.9
Mean Activity (Bq/ml): 182221.4
DICOM Coordinate Location (x,y,z): [52.9, -100.6, 1372.9]



Therapie met radioactieve bolletjes



Therapie met radioactieve bolletjes

Stap 1



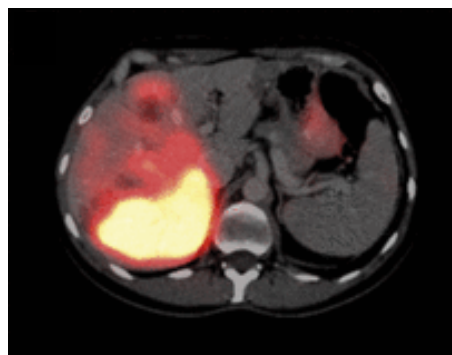
Stap 2



Stap 3



Test injectie met röntgen



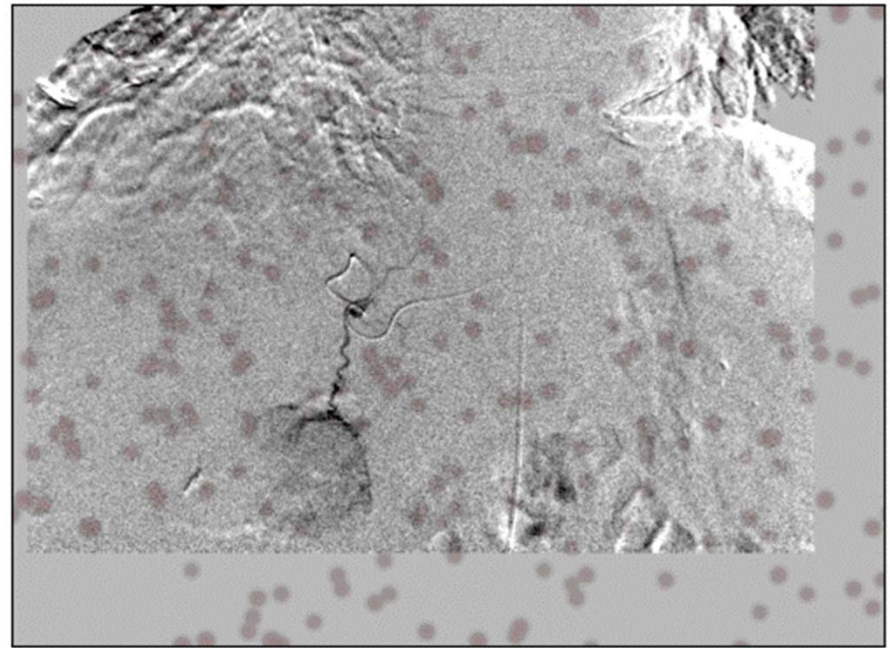
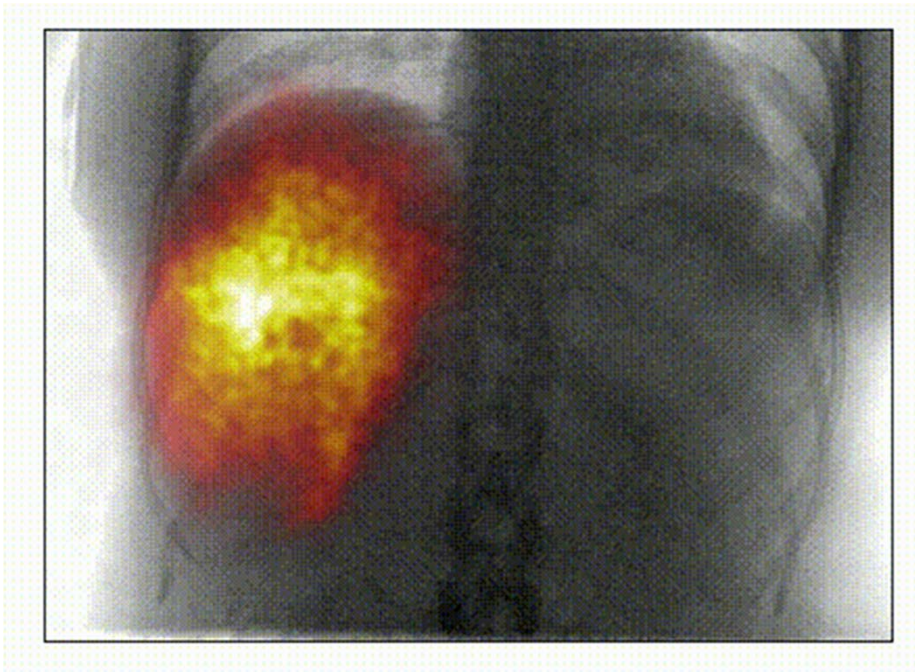
Controle met SPECT



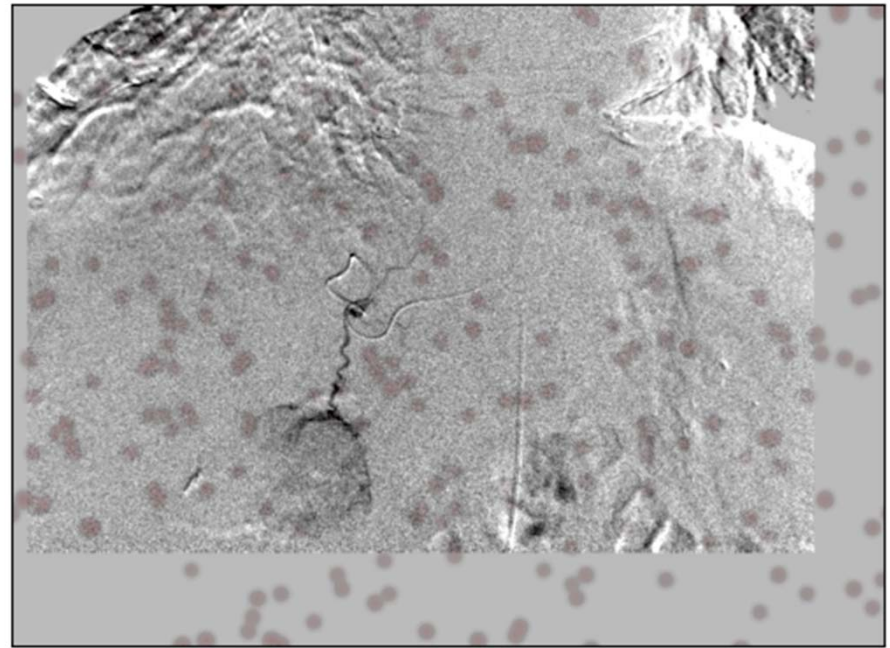
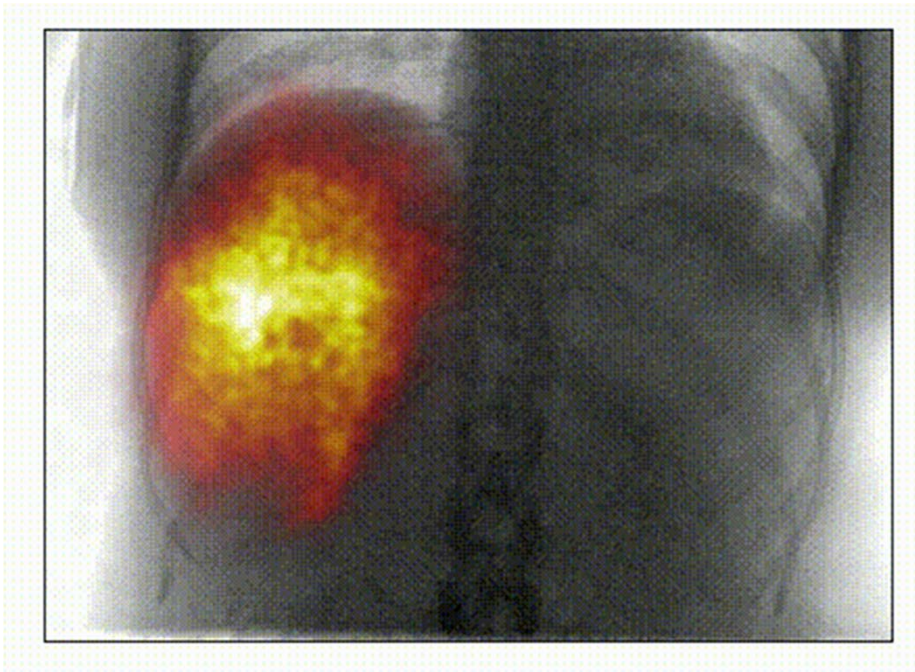
Therapie injectie met röntgen



Combinatie Nucleaire Beeldvorming en Röntgen



Combinatie Nucleaire Beeldvorming en Röntgen



Klinische Fysica en Nucleaire Geneeskunde

