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Lever, Mave tarm sygdomme
ENETS NET center of Excellence
Aarhus Universitets Hospital



Udredning og kirurgi



European **ENETS** CoE Neuroendocrine Tumor Society

ENETS Centers of Excellence

Assuring Quality since 2009

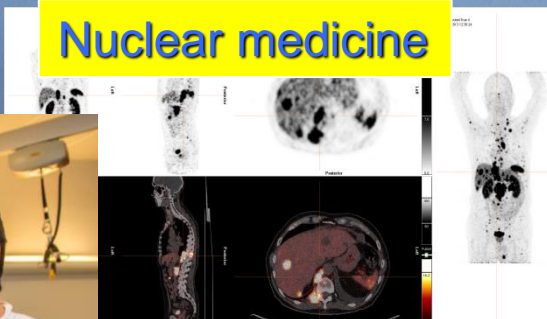


European **ENETS** CoE
Neuroendocrine Tumor Society



Centers of Excellence
Assuring Quality since 2009

Nuclear medicine



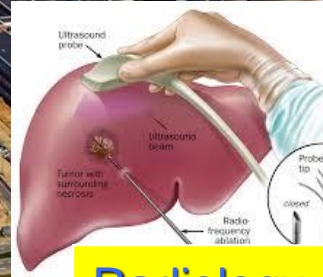
Pathology



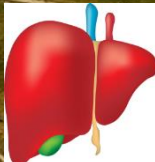
Endocrinology
VHL og MEN



Oncology

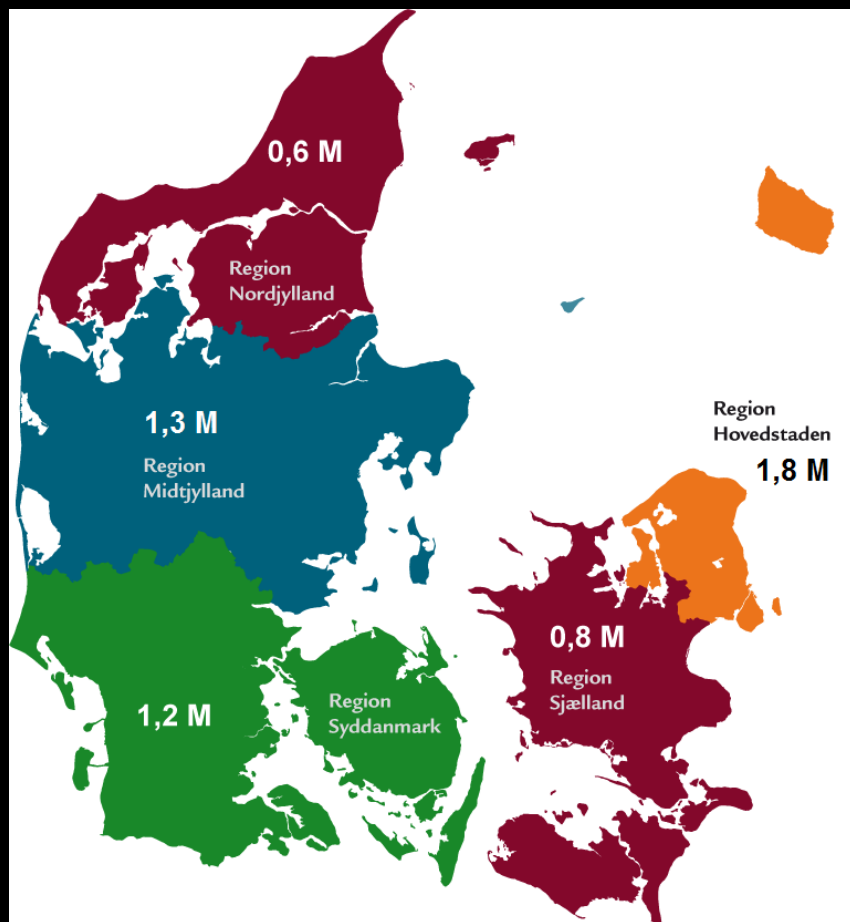


Radiology



Surgical department
Liver- intestinal

Optageområde 1,9 mil



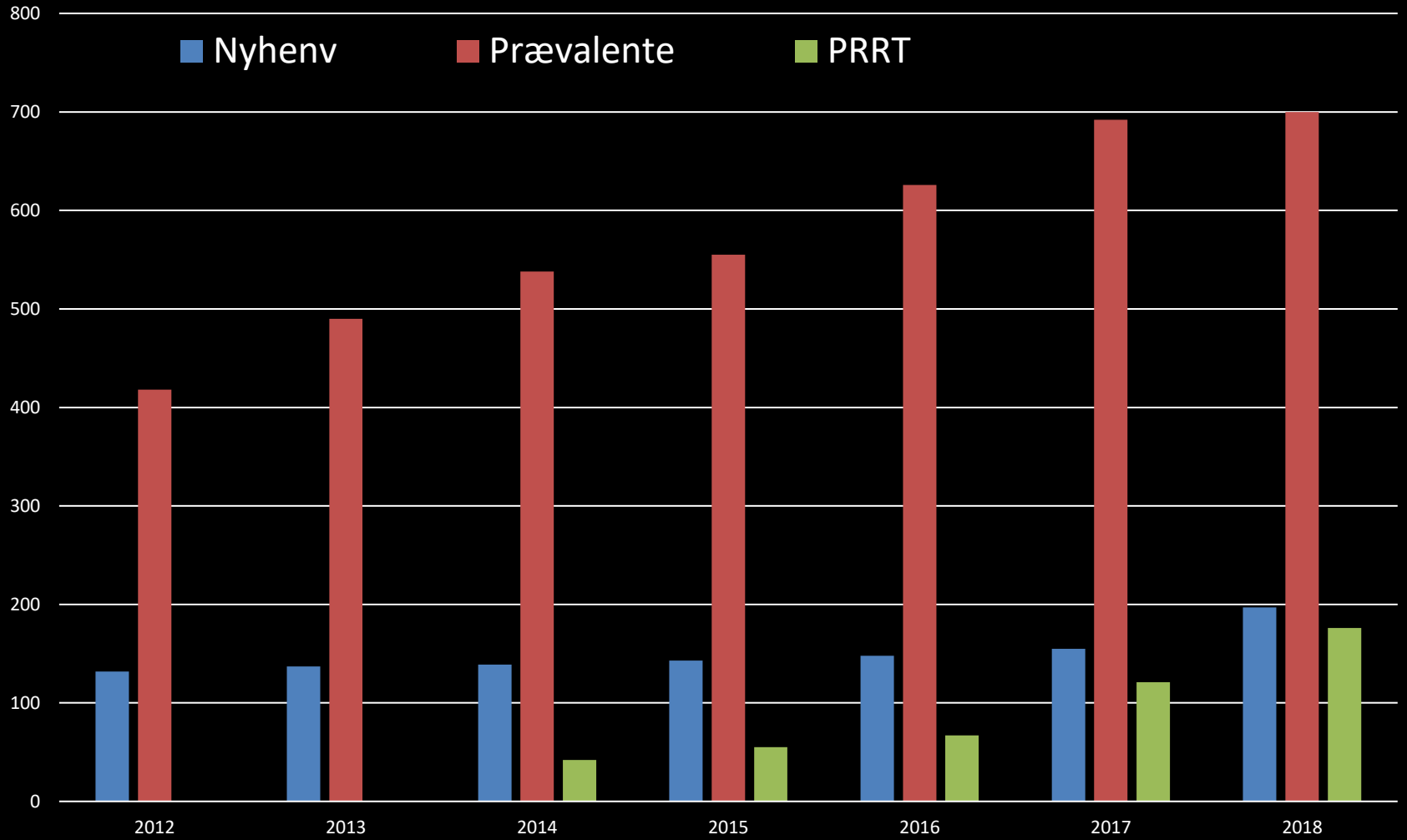
- Universitetshospital
 - Ålborg
- Regionshospitaller
 - Hjørring
 - Thisted
 - Randers
 - Horsens
 - Herning
 - Silkeborg
 - Vejle

NET patienter i Århus 2020



- 200 ny-henviste
- 800 i ambulant forløb

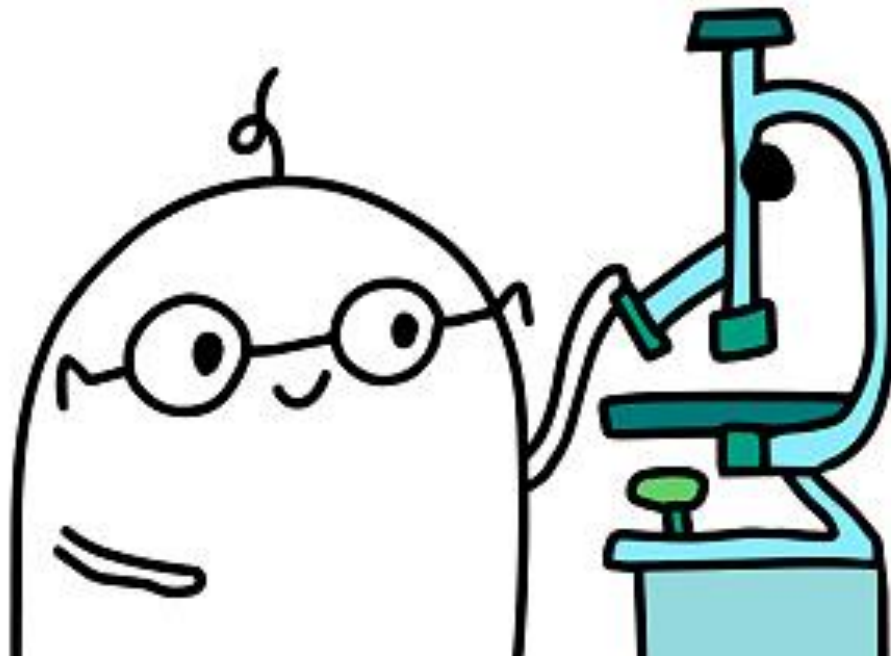
NET patienter



Udredning og behandlings plan

Dedikeret patolog

Pathologist



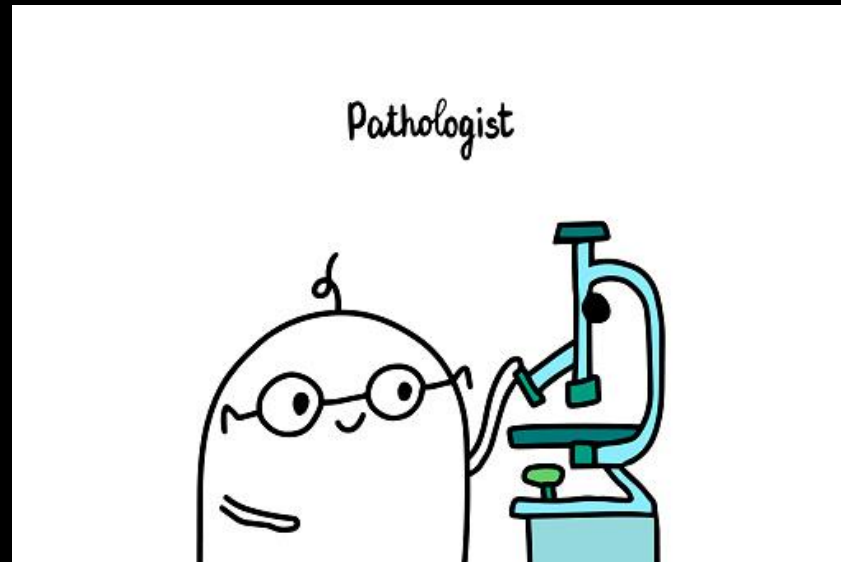
Patologen

Specialfarvninger af svulsten

Synaptofysin og chromogranin A

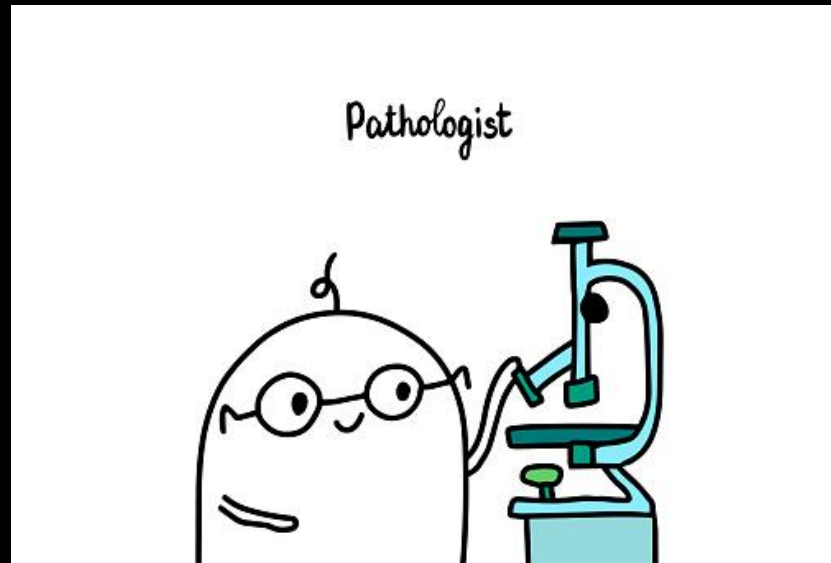
Graden (væksthastigheden)

– Ki67 indeks

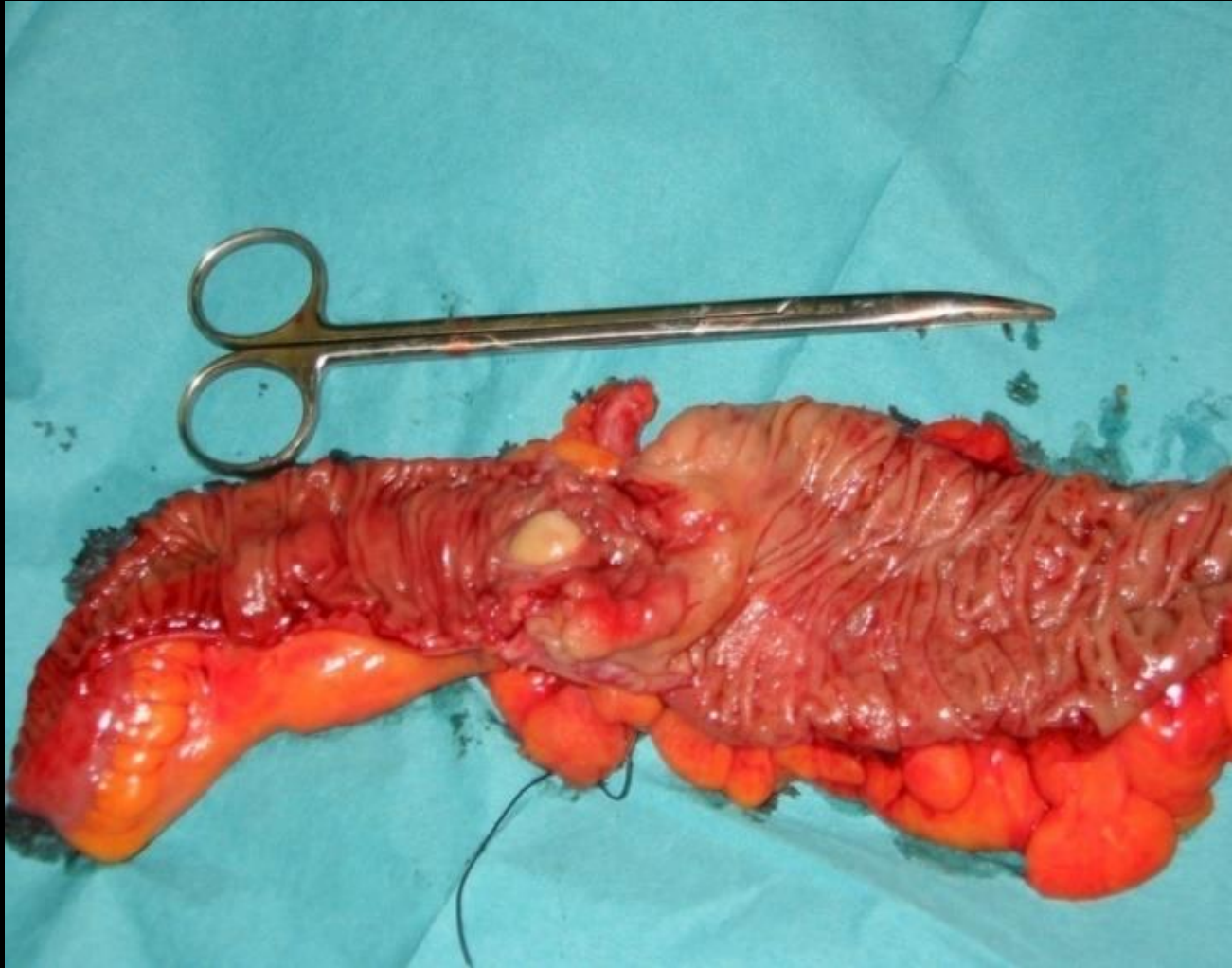


Patologen har brug for et stykke tumor

- Vævsprøve (biopsi)

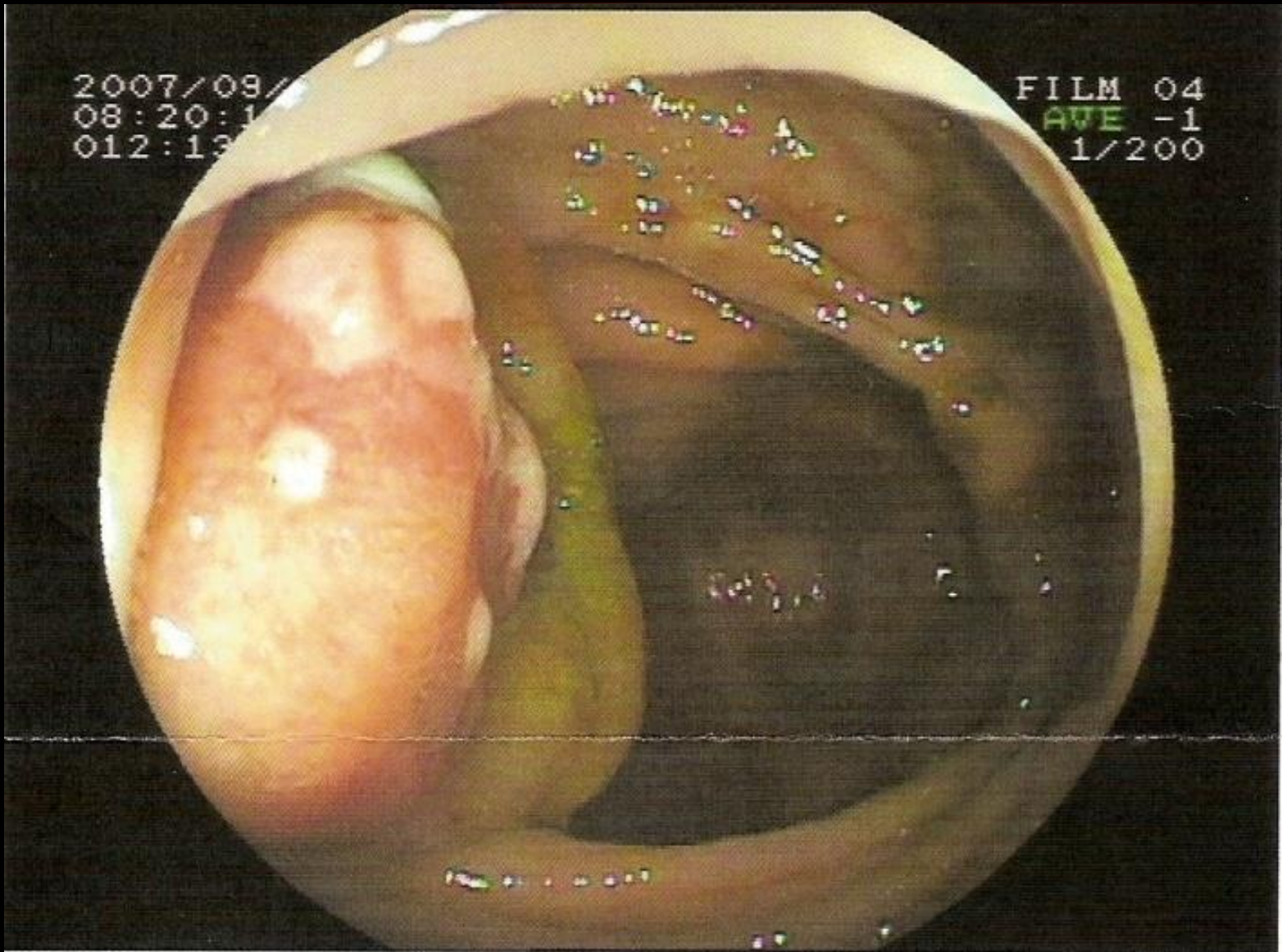


Tarmslyng





- Kikkers' syndrome of meyo

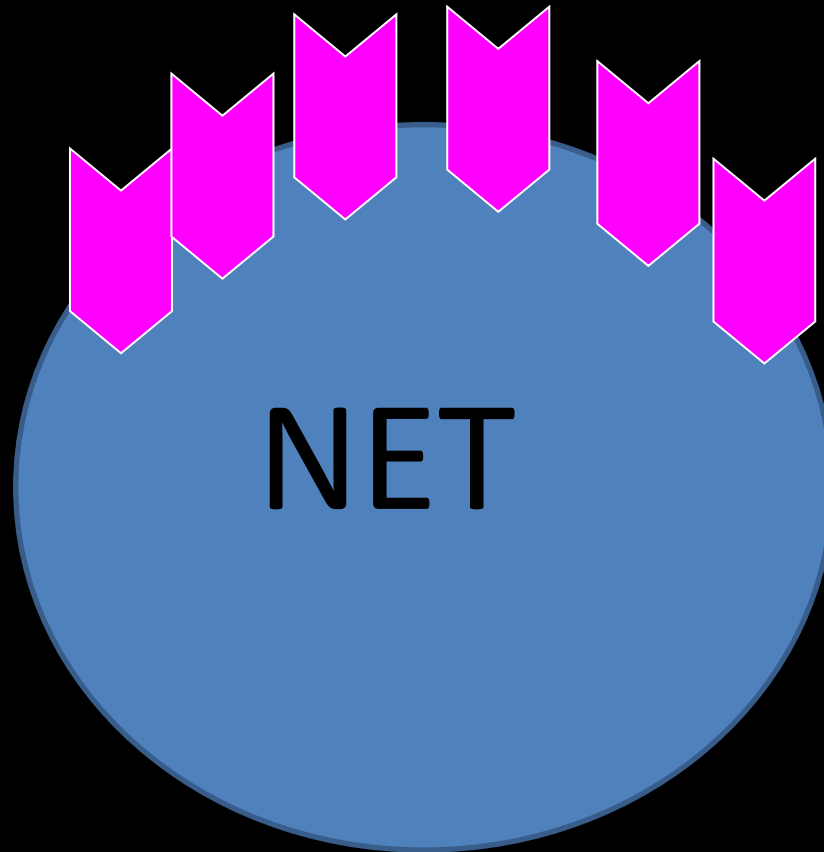


Hvad afgør behandling?

- Graden
 - Hvor hurtigt deler den sig. Det får vi fra vævsprøven
- Hvor udbredt er sygdommen (stadie)
 - Lokal spredning – lymfeknuder
 - Metastaser – lever, lunge, knogle

Stadie

Næsten alle NET (90%) har
somatostatin receptorer



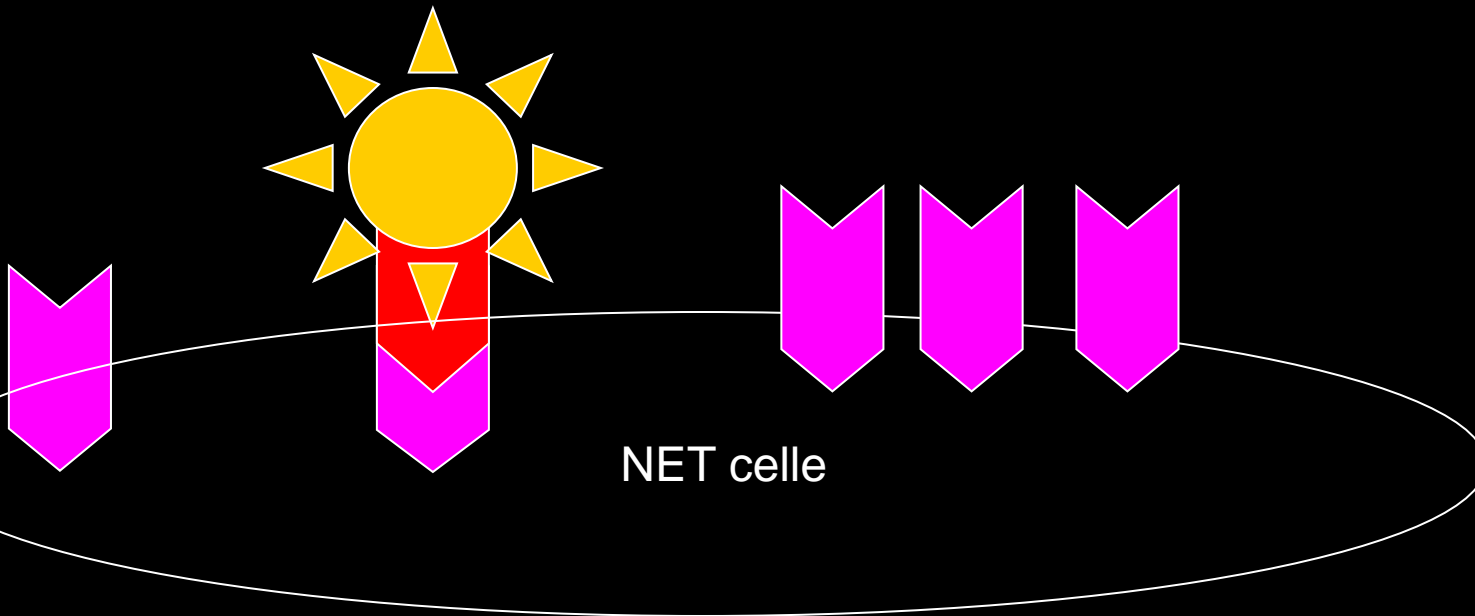
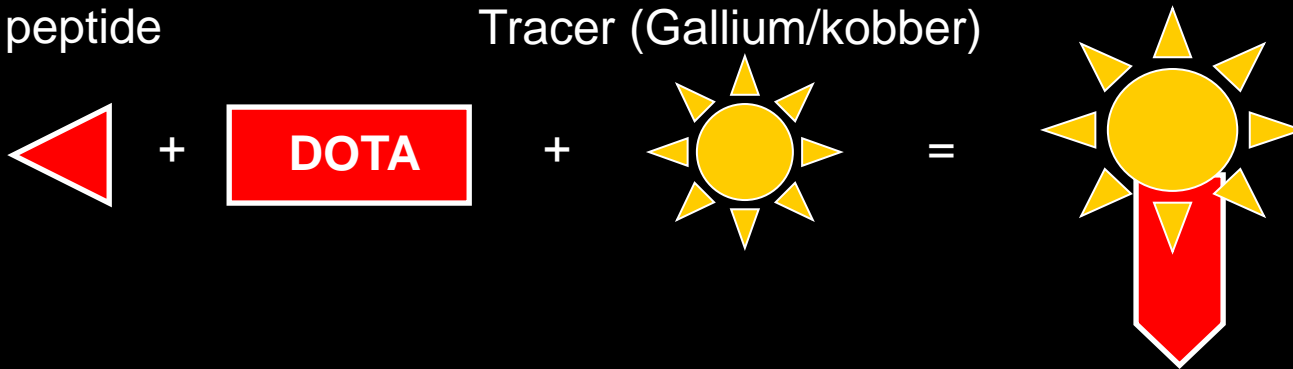
bruges til diagnostik og behandling

^{68}Ga -DOTA-TOC PET-CT

^{64}Cu -DOTA-TATE PET-CT

Somatostatin
receptor
peptide

Tracer (Gallium/kobber)

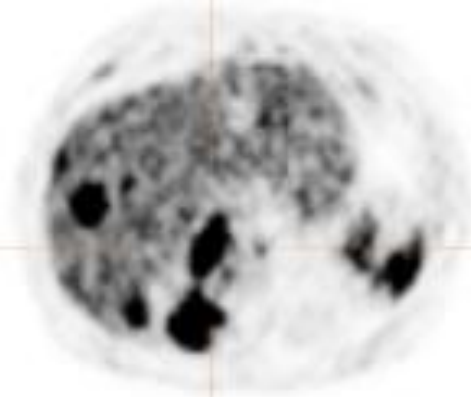




Anterior



Posterior



Superior

Anterior

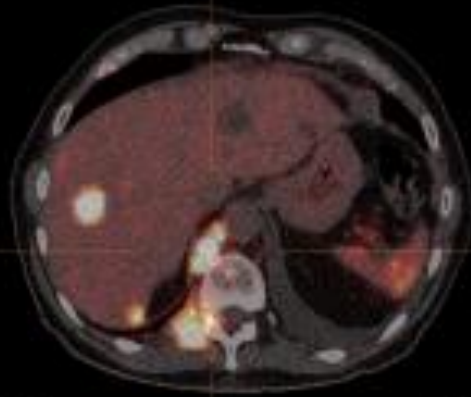
Patient ID: 130080088
PET/CT Completed True II
Final Oct 25 2013 12:36:34



Anterior



Posterior

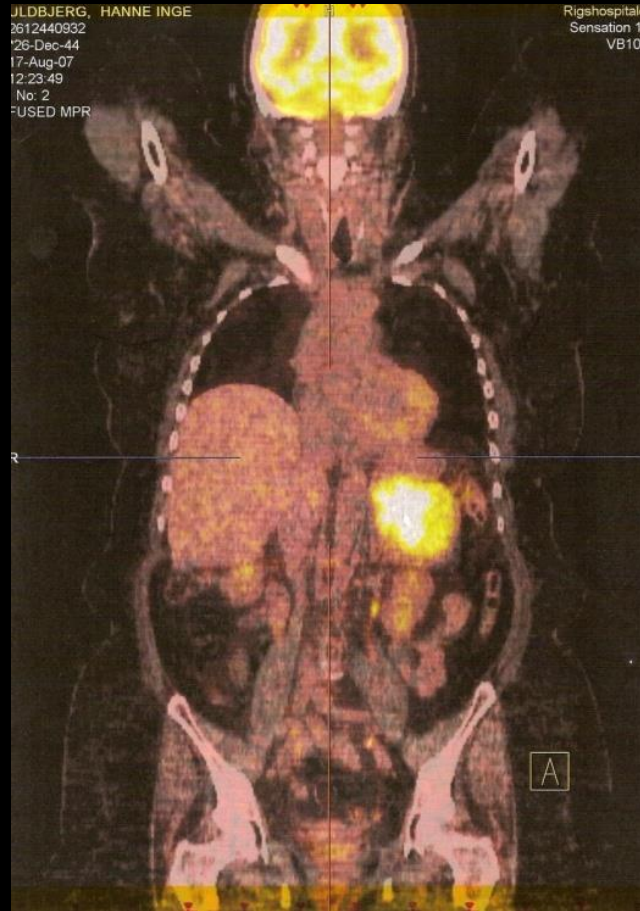


Anterior



FDG-PET CT-scanning

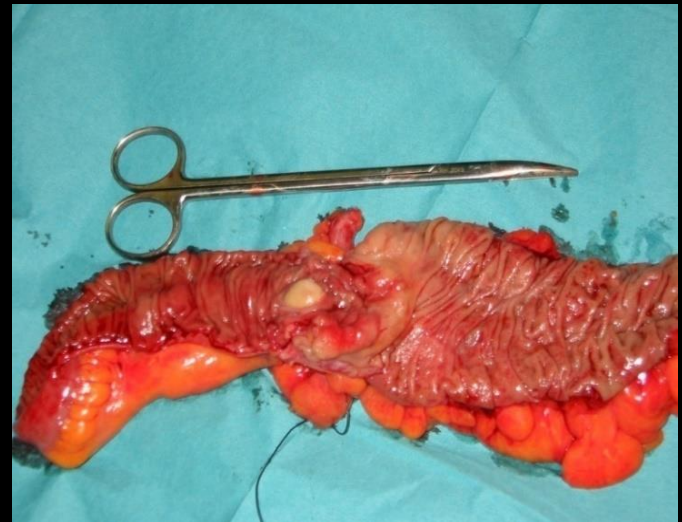
Hvis højt Ki-67 index

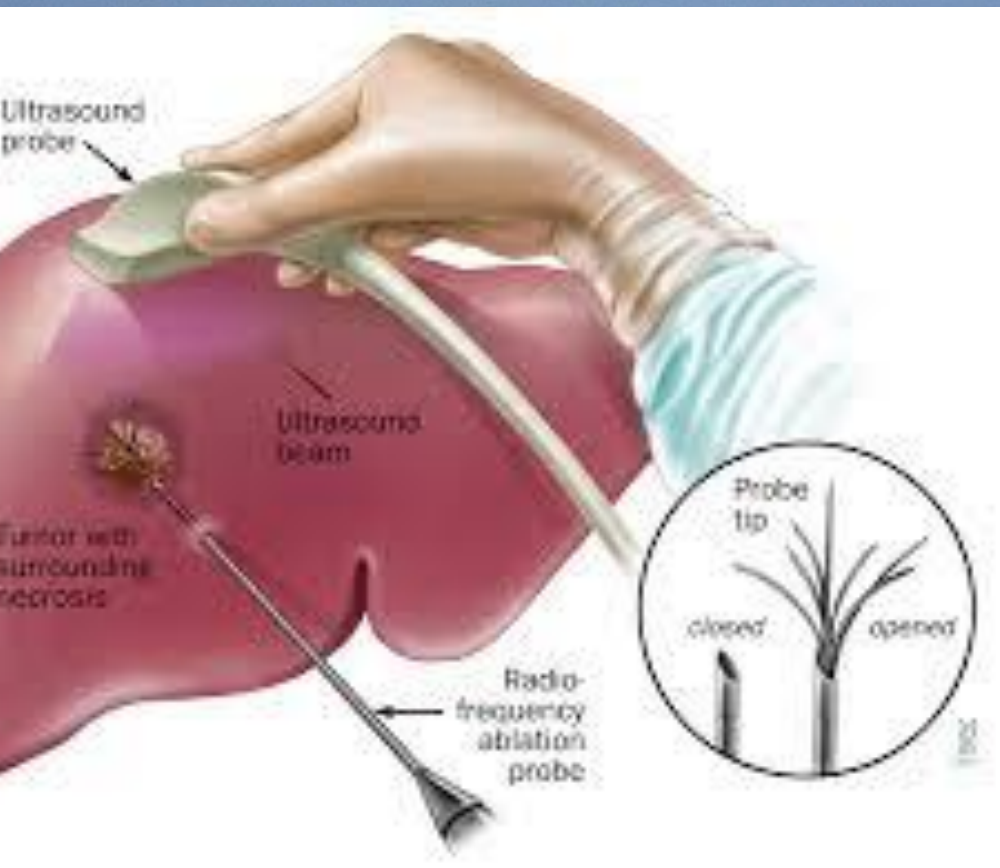


Behandling

Kirurgi:

- Eneste **helbredende** behandling
- Hvis muligt at helbrede så operererer
- Igen ved tilbagefald





Hvem skal opereres
- hvad afhænger det af?
Kan og skal er ikke det samme



Multidisciplinære team konferencer

*Multi Disciplinary
Team Meeting*

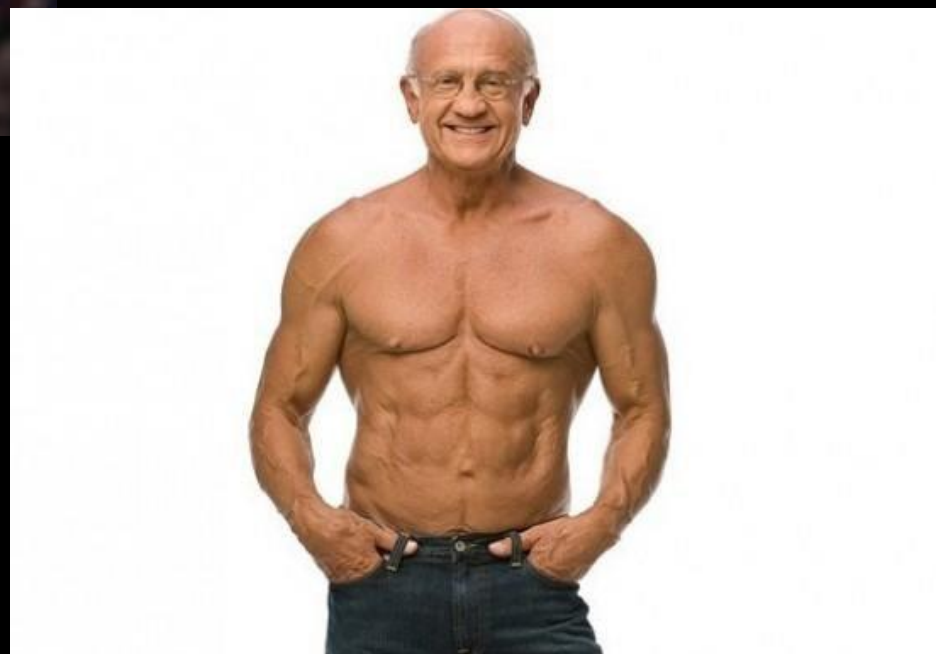


- Alle nyhenviste NET patienter diskuteres på MDT
- Alle NET patienter med vækst

Alder



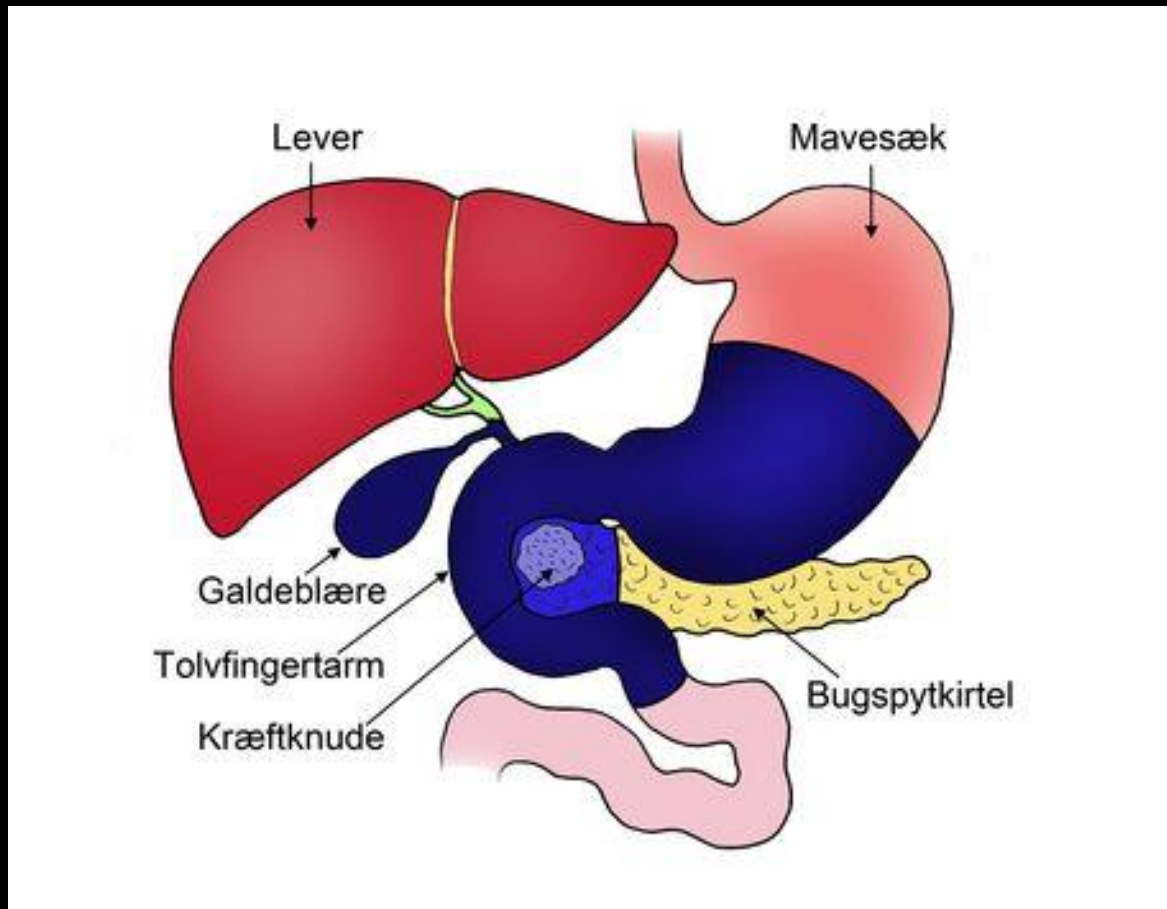
Performance status



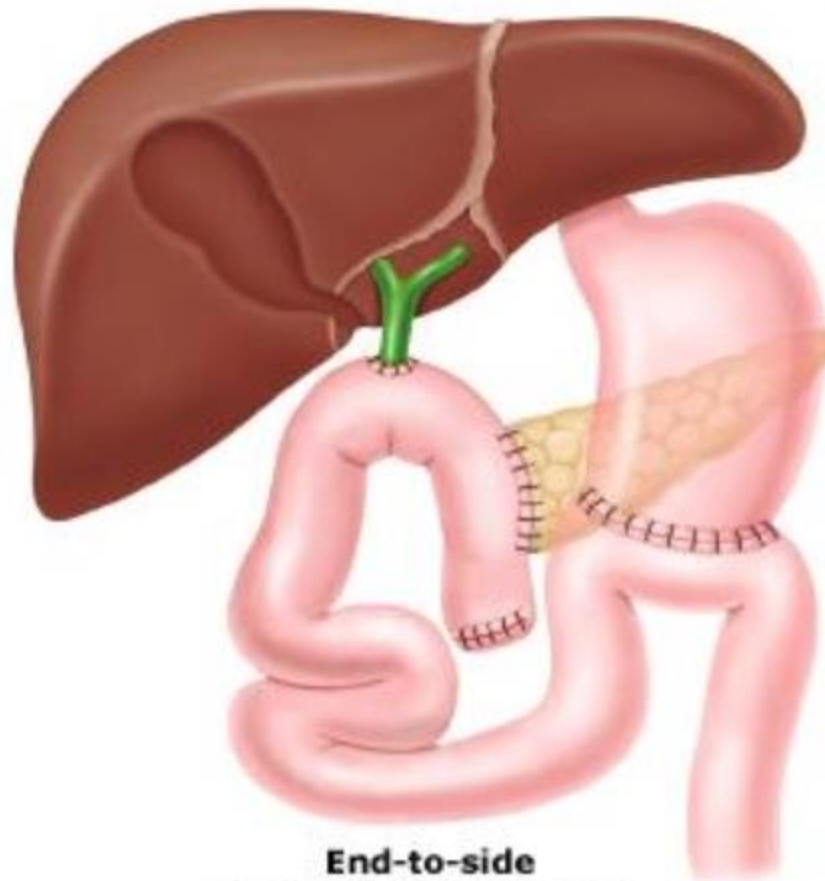
Behandlingsplan er individuel

- Kan tumor fjernes helt (karindvækst)
- Kan patienten tåle en operation
 - Andre sygdomme, alder og form
- Tumor grad (væksthastigheden)
- Sjældent kirurgi hvis tumor vokser meget hurtigt

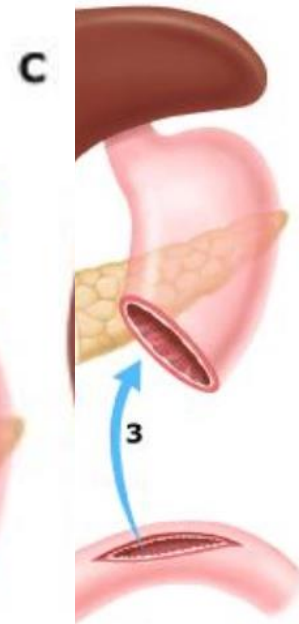
Tilfældige fund NET i bugspytkirtlen



Whipple



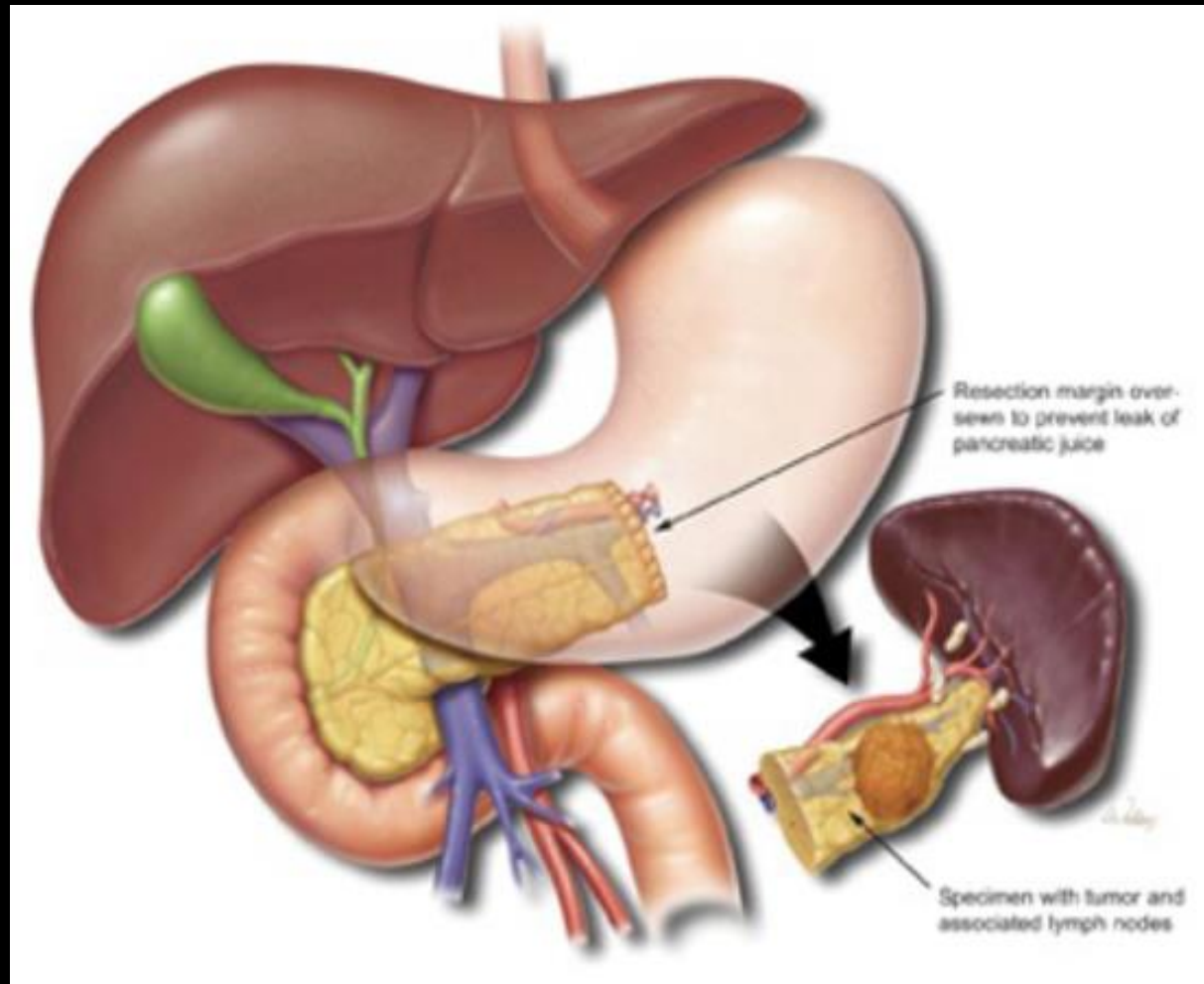
**End-to-side
pancreaticojejunostomy**



Senfølger/bivirkning

- Nedsat funktion af bugspytkirtlen (enzymtilskud)
 - Whipple 60-80 %
- Sukkersyge
- Kroniske mavesmerter
- Nedsat livskvalitet

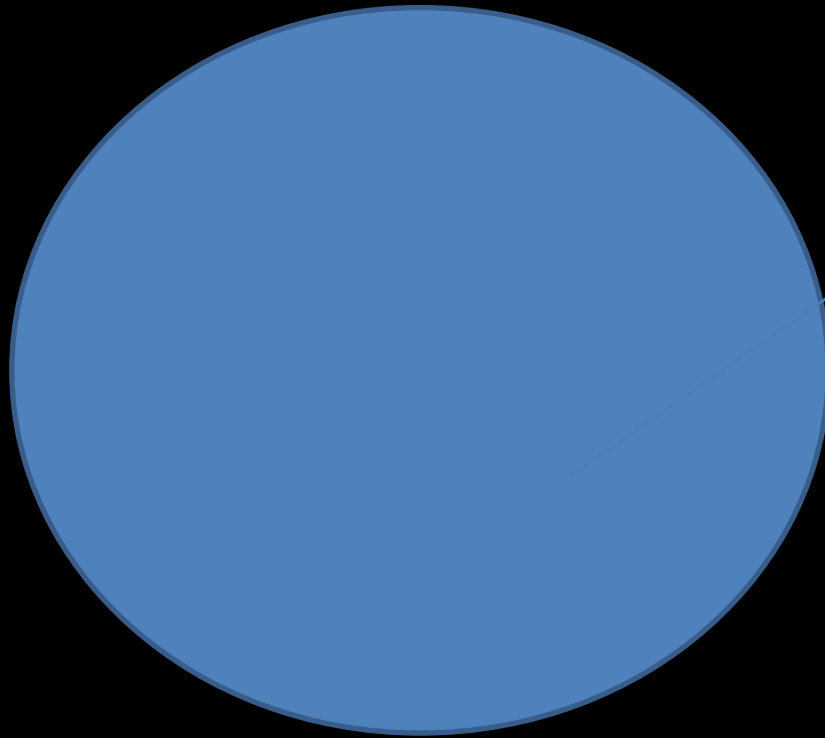
Halen fjernes



Ka jeg blive opereret og få fjernet noget af tumor?

- Der er ikke gode studier der understøtter at det gir mening
- Hvis man har smerter (begyndende tarmslyng)
- Hvis man har mange hormon relaterede symptomer

NET producerer forskellige hormoner (serotonin)



Serotonin:
diarre
flushing

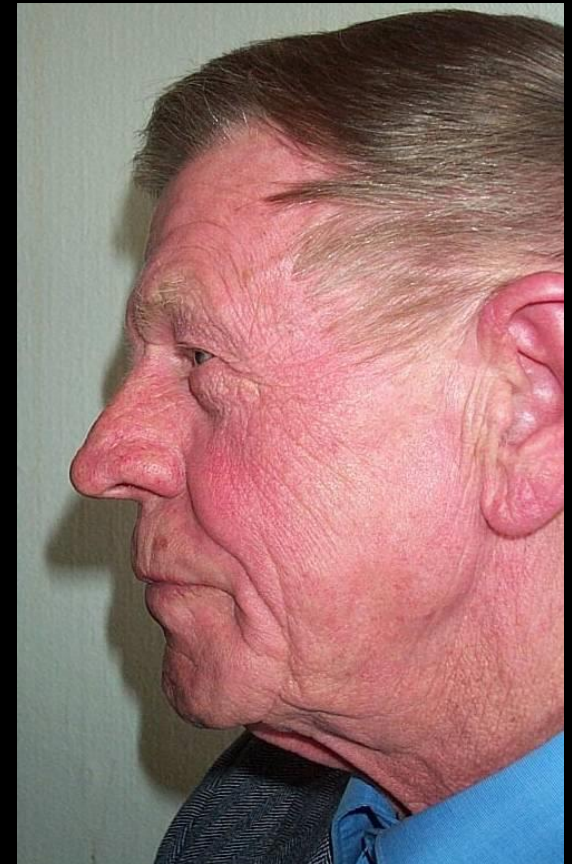
Flushing

Carcinoid syndrome

Facial flushing in a pt. with carcinoid syndrome



Flushing
acute attack



Tyndtarms NET Serotonin

Carcinoid syndrome

- Diarre
- Astma (<10%)
- Flushing

Hjertesvigt
Hjerteklapperne ødelægges
UL af hjerte!!

