

## **IMAGING AND THERAPY OF NEUROENDOCRINE TUMORS WITH RADIOLABELED SOMATOSTATIN ANALOGS**

1.  $^{177}\text{Lu}$ -DOTATATE is a good treatment option for patients with metastasized, or inoperable neuroendocrine tumors (*this thesis*).
2. Considering the good response rates and its limited side-effects, treatment with  $^{177}\text{Lu}$ -DOTATATE should be the preferred second-line option for neuroendocrine tumor patients who are progressive with first-line treatment with long-acting somatostatin analogs (*this thesis*).
3. An increase in liver enzymes and serum chromogranin A is not uncommon shortly after PRRT. Therefore, clinicians should be aware that the determination of progressive disease during or shortly after PRRT would be difficult if only based on these circulating parameters (*this thesis*).
4. At present, not one single diagnostic test is able to detect disease progression. For the follow-up of neuroendocrine tumors, the results of multiple biochemical tests, anatomical and molecular imaging should be combined (*this thesis*).
5. Uptake in the uncinate process of the pancreas on SRS with  $^{111}\text{In}$ -DTPA-octreotide can be physiological and anatomical imaging is necessary to confirm any pathology at this site (*this thesis*).
6. Treatment with  $^{177}\text{Lu}$ -DOTATATE in combination with a regular dose of octreotide LAR results in a longer progression-free survival and higher response rates than high-dose octreotide LAR alone in patients with advanced midgut neuroendocrine tumors (*NEJM 2017*).
7. Overutilization of imaging services for diagnostic and image-guided therapeutic purposes adds unjustifiable costs to healthcare and exposes individuals and the general population to unnecessary radiation doses (*Radiology 2010*).
8. Prophylactic hydration to protect renal function from intravascular iodinated contrast material does not prevent contrast-induced nephropathy, potentially increases other risks and should, therefore, be abolished (*Lancet 2017*).
9. Since placebos are effective and cheap, doctors should be allowed to prescribe them (*Science 2004*).
10. It is unlikely that the stripes on zebras are a form of anti-predator camouflage (*PlosOne 2016*).
11. An apple a day keeps the doctor away.... if you aim it well enough (*Sir Winston Churchill*).