

# Tailored dosimetry in the radioiodine treatment of differentiated thyroid cancer

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## **Tailored dosimetry in the radioiodine treatment of differentiated thyroid cancer**

Roel Wierds, 30 mei 2018

1.  $^{124}\text{I}$  PET-based dosimetry provides valuable prognostic information regarding lesion response to radioiodine treatment in differentiated thyroid cancer (*This thesis, valorization*).
2. A personalized radioiodine therapy approach is most beneficial for differentiated thyroid cancer patients presenting with metastatic disease (*This thesis, chapter 3*).
3. Prompt gamma coincidence correction improves the accuracy of lesion dosimetry in  $^{124}\text{I}$  PET imaging (*This thesis, chapter 4*).
4. Accurate quantitative  $^{124}\text{I}$  PET/MRI-based lesion dosimetry is feasible in differentiated thyroid cancer (*This thesis, chapter 5*).
5. Ceiling scatter should be considered in the radiation shielding calculations of nuclear medicine rooms (*This thesis, chapter 6*).
6. Reliable patient dosimetry is a keystone of high quality radionuclide therapy (*Hubert Thierens*).
7. The full power of personalized radionuclide therapy is yet to be unleashed.
8. Nuclear medicine is more than the comprehensive extension to radiology.
9. Eén keer is ook periodiek (*Anne Paans*).