

Multimodality and multi-parametric imaging in abdominal oncology

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'Multimodality and multi-parametric imaging in abdominal oncology

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current and future strategies to harnessing the complementary value of PET/CT and MRI'

Lisa A. Min, 7-6-2022

1. The combination of PET(/CT) and MRI has become a hot topic in oncologic imaging research during the past decade with a growing focus on the multiparametric analysis of imaging 'biomarkers' that can be derived from these modalities. – *this thesis*
2. Integrated reporting of PET/CT and MRI in abdominal cancer can have a positive impact on clinical decision-making in specific staging settings, reflected in improved reader confidence and reduction of inconclusive findings. – *this thesis*
3. Visual imaging evaluation and staging renders the most important outcome predictors in rectal, cervical and anal cancer; quantitative analysis has limited additional value for prognostic modelling. – *this thesis*
4. Based on current experience the overall predictive value of quantitative PET-based parameters was found to be limited, especially when combined with other MRI-based or clinical baseline variables. – *this thesis*
5. Imaging plays an important role in personalized medicine by helping in selecting the right treatment for the right patient at the right time, thereby contributing to improved treatment outcomes and more efficient use of healthcare resources.
6. Ultimately the best clinical prediction models to assess treatment outcomes in cancer patients should incorporate parameters from multidisciplinary sources, including but not limited to those derived from oncologic imaging.
7. The value of hybrid PET/MRI lies mainly in comprehensive regional evaluation of the local tumour and its direct (micro-)environment, rather than competing with PET/CT for whole-body applications.
8. Considering the increasing demand for multimodality imaging in oncology, the traditional workflow of separately reporting PET/CT and MRI studies will rapidly become outdated and will have to make way for more comprehensive image interpretations by either hybrid diagnosticians or dedicated teams of radiologists and nuclear medicine physicians working closely together.
9. No matter where you go, there is a five-hundred-pound load of shit waiting for you. And that's perfectly fine. The point isn't to get away from the shit. The point is to find the shit you enjoy dealing with. – *Mark Manson in 'The Subtle Art of Not Giving a F*ck: a Counterintuitive Approach to Living a Good Life'*
10. One of our greatest freedoms is how we react to things – *the Mole in 'The Boy, the Mole, the Fox and the Horse' by Charlie Mackesy*