

Longitudinal radiomics for prognosis in non-small cell lung cancer

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Longitudinal radiomics for prognosis in non-small cell lung cancer

Janita van Timmeren

1. It is the imaging features' quantitative properties that make radiomics an objective method to quantify the phenotype of the tumor.
This thesis (chapter 6)
2. To assure robust and reproducible radiomics analyses, an essential step in the process is feature selection, in which features considered as non-informative are eliminated.
This thesis (chapter 3)
3. Radiomics has the potential to serve as an additional information source for the development of prediction models to improve personalized treatment.
This thesis (chapter 10)
4. Improvements of imaging techniques, and standardization and consensus in settings, radiomics methodology and statistical approaches are of major importance for the success factor of radiomics.
This thesis (summary)
5. Validation is required to assess generalisability of prognostic models to new, unseen data.
Zwanenburg et al.
6. Biomarkers are an important piece of the lung cancer puzzle, and serve as signs that can help doctors understand how each person's cancer is different.
Merck
7. Within the next five years, deep learning will play a significant role in radiotherapy and imaging.
Ge Wang and Mannudeep Kalra
8. The information obtained from decision support systems can help patients develop informed preferences, which are the basis for shared decision-making.
Révész et al.
9. Sometimes the hardest pieces of a puzzle to assemble, are the ones missing from the box.
Dixie Waters
10. Time is the most valuable thing that a man can spend.
Diogenes