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Conclusions

Radiomics offers new opportunities to develop better understanding of oncology processes and for personalizing therapy

Complementary information from hybrid (multi-modality) imaging (fused/separate) can enrich radiomics models and improve prediction power

Machine/deep learning techniques can improve feature selection and statistical learning in radiomics analytics and modeling outcomes

Proper integration of radiomics with clinical and other –omics (panomics) is necessary towards development of informed clinical decision support systems Main challenges for radiomics with machine learning methods

- Harmonization and optimization of image acquisition methods

- Validation and evaluation across independent datasets

- Better interpretation of radiomics models is still lagging



