

Multifactorial decision support systems in radiation oncology : clinical predictors and radiomics

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Propositions accompanying the thesis

**Multifactorial decision support systems in radiation oncology:
Clinical predictors and Radiomics**

Emmanuel Rios Velazquez

Maastricht, 24 October 2014

1. It is expected that medical knowledge derived from the implementation of rapid-learning approaches will enable the application and validation of decision-support systems (this thesis).
2. In cancer and biomedical research, the discovery of evidence largely depends on our ability to collect, analyze and interpret large amounts of biomedical data (this thesis).
3. The use of multivariate models based on clinical patient characteristics and in advanced imaging traits yield better predictions than the traditional staging system TNM and can be validated in external patient cohorts (this thesis).
4. These results suggest that radiomics decodes a general prognostic phenotype existing in multiple cancer types (this thesis).
5. Radiomics can have a large clinical impact, as imaging is used in routine practice worldwide, providing a method that can quantify and monitor phenotypic changes during treatment (this thesis).
6. You have to know how to look even if you don't know what you are looking for (Roberto Bolaño).
7. Some people never go crazy. What truly horrible lives they must lead (Charles Bukowski)
8. Great things are not accomplished by those who yield to trends and fads and popular opinion (Jack Kerouak).
9. If we have data, let's look at data. If all we have are opinions, let's go with mine (Jim Barksdale).
10. Science like happiness only matters when shared.