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Text mining real-world data to evaluate systemic anti-cancer therapy

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STELLINGEN

Behorende bij het proefschrift

Text-mining real-world data to evaluate systemic anti-cancer therapy

1. The use of text-mining highly improves the efficiency in retrieving real-world data from electronic health records. *This thesis (chapter 3)*
2. Electronic health record data must be used to evaluate oncologic treatments in clinical practice. *This thesis (Chapter 2)*
3. Overall survival is not only determined by a single treatment but by all consecutive treatment lines a patient receives, which complicates comparing real world data to clinical trial results. *This thesis (Chapter 4)*
4. When estimating the impact of an adverse event on a patient's quality of life, the irreversibility of the adverse event must be taken into consideration. *This thesis (Chapter 6)*
5. Some data critical for cancer research and patient care is currently only recorded in unstructured text, for example, whether and when a cancer improves or worsens after a given therapy. *Wang L et al. JCO Clinical Cancer Informatics. 2020: 6, e2200006.*
6. Structured and standardized reporting and documentation in health records is preferred when reuse of data is desirable to improve the quality of notes, healthcare provider efficiency and decrease of documentation time. *Schepens MHJ et al. Appl Clin Inform. 2023: 14(02), 326-336.*
7. Within each specific reality, policy-makers could develop mechanisms for re-reviewing real-world data on effectiveness and cost-effectiveness data for all cancer drug, in order to ensure fair and equitable access, to optimize the allocation of resources and to identify the most fitting treatment. *Di Maio et al. The Oncologist. 2020: 25(5) e746-4752.*
8. All data sources have flaws; although real-world data may be viewed as messy, so are the lives of real-world patients – this does not make them less valuable. *Benbow JH et al. Am Soc Clin Oncol Educ book. 2020: 42, 116-126.*
9. Of course, before a woman gets to face all these hidden hurdles, she must have found the time to do the research in the first place, and that is by no means a given. *Caroline Criado Perez. Invisible women: exposing data bias in a world designed for men. 2019: 97.*

10. Theorising before data is available is a major mistake. *Sir Arthur Conan Doyle. The adventures of Sherlock Holmes. Adventure I. – A scandal in Bohemia. 1892: 64.*