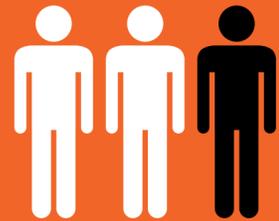


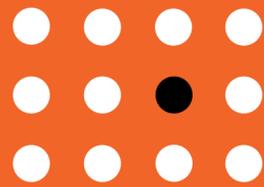
IMPLEMENTING PERSONALISED ONCOLOGY

From Experimental to Mainstream: Stakeholder Elicitation Regarding the Implementation of Personalised Oncology in Dutch Healthcare.

Background



Cancer is responsible for **31%** of the total death rate.



It is a **complex** disease & every patient is **unique**.



Standard of care **treats** most cancer patients **the same**.



Personalised Oncology offers promising **tailored treatments**.

INTRO: The global evolution of Personalised Oncology (PO) provides examples how state-of-the-art healthcare integrates into patients' lives and serves as a precedent towards widespread future implementation (Singer et al., 2018). The implementation efforts of PO will result in **durable clinical benefit, facilitate nationwide access to care** and exploit future **scientific and technological advances in cancer care** (Janssens, Schuster, & Voss, 2018).

PROBLEM: Current initiatives do not contribute to the health of the vast majority of Dutch cancer patients. Many significant barriers to mainstreaming PO exist and implementation is hampered (Joosten et al., 2016); therefore, **the healthcare system is not exploiting its potential**.

AIM: Develop **actionable insights** on the implementation of Personalised Oncology in Dutch healthcare by analysing **value assessments of stakeholders** following allocative decision-making criteria for implementation.

Theoretical Framework

EVIDEM model for value assessment

Quantitative appraisal

- Need for intervention**
- Comparative outcomes
- Type of benefit of the intervention**
- Economic consequences
- Knowledge of the intervention**

Qualitative appraisal

- Normative contextual criteria
- Feasibility contextual criteria**

Study Design (mixed-methods)



Results

	Quantitative data	Qualitative data
Need for intervention	83% high disease burden of cancer	Number of patients is growing > ageing population Difficult to cure > cancer is N=1
Type of benefit of the intervention	31% PO-based therapy will cure the patient	Lack of drugs > unclear rules for administering off-label therapy No treatment is also a treatment > QoL is important > severe side-effects
Knowledge about intervention	54% not enough supporting scientific evidence	Few implementation of knowledge > no valuation of implementation quantity > wrong incentives in science
Feasibility contextual criteria	High costs and no investments > no direct cost-benefit relation No leadership > no mandate of stakeholders > no one feels responsible No data governance > no interoperability > no rules in data (re)use	Only qualitative data

"You will need a radical approach that proves Personalised Oncology really has a therapeutic effect on the patient, rather than shifting the burden of proof. Only then the majority will follow."
Policymaker

Conclusion & Recommendations

The national implementation of Personalised Oncology **will not be feasible yet**. To support its effectiveness within cancer care, the healthcare system and all stakeholders have to understand the use of PO and proof its benefit in a clinical setting.

Recommended approach:

Create **mandate** and take **leadership** within the PO debate. Launch a foundation or an institute to accelerate cancer care. Why? To treat today's patient with tomorrow's care.



Invest & take leading position in genomic research via **big data** based analysis of Real World Evidence (RWE) (n=1, n=1, n=1)



Develop a platform to mine global treatment options based on PO and **match patients to existing therapies**



Be responsible for the burden of proof by treating patients with PO-based care; arranged in one clear **patient journey**

**MEDICINE
BASED
EVIDENCE.**

