European Value-Based Healthcare Benchmarking: Moving from Theory to Practice

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RATIONAL

VOICE community

8 European healthcare centres driven by Biosistemak Institute

VOICE’s objective

Address VBHC from theory into practice in breast cancer and lung cancer
- Measuring outcomes
  - Health outcomes (CROs, PROs)
  - Care-Process Related Outcomes (CAPROs)
  - Economic-Related Outcomes (EROs)
- Benchmarking of health, care-process and economic outcomes across healthcare centers
- Best practice sharing across healthcare centres

VOCE’s pathway

BENCHMARKING

Methods
- Descriptive analysis: (see results in posterior Garcia-Lorenzo B., Alayo I., Arrospide A., Gorostiza A. and Fullaondo A. on behalf of the VOICE study group (2023); Disentangling the Value Equation: A Step Forward in Value-Based Health Care. ICHOM conference 2023)
- Regression models
  - One model per indicator
  - Control variables: patient archetype, clinical and socio-demographic variables

Results

Figure 1. Benchmarking of health outcomes indicators

Table 1. Most representative patient per archetype

PATIENT ARCHETYPES

Patient classification to ensure outcomes’ comparability between sites based on patient’s characteristics and healthcare pathway

Methods
- Clinical criteria
- Statistical approach (Hierarchical Clustering on Principal Components)

EROS
- own standard set
- 1 year follow-up

CROs, PROs, CAPROs
- ICHOM Standard set
- 6-month follow up

DATA

- 6 healthcare centres
- 690 patients diagnosed with breast cancer (N1=273; N2=58; N3=42; N4=59; N5=117; N6=91)

INDICATOR SET

Definition of an appropriate, manageable and relevant indicator set on which to base the benchmarking

Methods
- DELPHI methodology
- 28 experts

Figure 2. Benchmarking of care-process and economic indicators

DISCUSSION

limitations
- No Patient-Reported Experiences (PREs)
- Short PROs and CROs follow up
- No economic information for 1 centre
- Large confidence interval on estimated parameters (small sample size for some indicators due to eligibility criteria)

Conclusions
- First international experience on VBHC benchmarking intention
- Applied methods might be of use in other medical conditions

Next steps
- Best practices sharing