A Contemporary Approach to Determining Health Care Resource Utilization (HCRU) Among Cancer Patients



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Plain language summary



Why we perform this research?
To understand expenditure in supportive care cancer programme

How we perform this research?

outcome measures (PROMs) for

patients who received a supportive

We analyzed patient reported

cancer care intervention



What were the findings of this research?

research?
SF-6D gain leads up to high
reduction in medical expenditures



What are the in research?
These insights of

What are the implications of this research?

These insights can help improve personalized, cost-effective, and fair cancer care

Introduction

- Increase in cancer incidence and survivorship increases costs and pressures on healthcare systems.¹
- Cancer care drives high health care resources utilization (HCRU) => Can reach \$155,029/patient in 6-month period.²



Figure 1: Link between current-value based models with true based medicine

Improve Outcomes

Objective

- To evaluate medical expenditure savings in a multidisciplinary supportive cancer care program.
- Real world evidence (RWE) is necessary for purchasers of value-based oncology models.
 However, those rarely incorporate standard PROMS that capture economic impacts of supportive cancer care.



Figure 2: Supportive and palliative care components in cancer patients

Methodology

- Patients received a multidisciplinary supportive cancer care intervention including mental health, nutrition support, and occupational therapy.
- Baseline and follow-up scores were collected approximately 10 weeks from intervention start, representing approximately 9 clinical visits.
 SF-12v2 and SF-6D algorithms evaluated intervention responses and HCRU

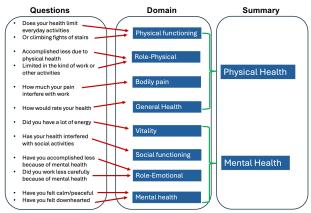


Figure 3: Representation of different domains of SF-12v2 and SF6D

Results

- Among 185 participants (mean age 52; 84% female), 35% were in active treatment, 21% on hormonal therapy, and 65% post-treatment.
 Patients completed SF-12v2 at baseline and follow-up.
- The average increase in SF-6D score was +0.051 (baseline: 0.597; follow-up: 0.648).
- This level of score improvement exceeds published estimates of clinically meaningful changes. 3,4,5



Figure 4: Impact of early care on reducing decline and healthcare use

- Avoiding decline reduces extra doctor visits, hospitalizations, and severe symptom days.
- Tracking healthcare use helps spot early signs of decline.
- Early care keeps patients healthier and lowers resource use.

Clinical Outcomes by SF-6D Domains

- When health status remains stable, physical, emotional, and social functioning are preserved, allowing patients to keep doing what matters most to them.
- Stability of health status reflects disease control and preserved quality of life.
- Avoiding decline often means avoiding additional medical visits, hospitalizations, and high-symptom days.

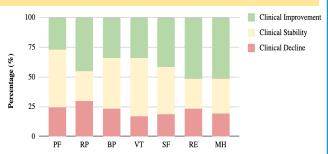


Figure 5: Clinical Outcomes by SF-6D Domains

Physical Functioning (PF) , Role Physical((RP), Bodily Pain (BP), Vitality (VT), Social Functioning (SF), Role Emotional (RE), Mental Health (MH)

Conclusions

For cancer patients, a **+0.051 SF-6D gain = 8% to 30% reduction** in medical expenditures.^{1,2}

Clinically meaningful PROM gains \rightarrow Better Patient Outcomes and Efficiency \rightarrow Reduced HCRU.

Real world evidence supports payer decision-making, value-based contracts, and health technology assessment (HTA) priorities.

References



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