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Three Sets of Case Studies Suggest Logic and Consistency Challenges with Value Frameworks

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ABSTRACT

Objective: To assess the logic and consistency of three prominent value frameworks. **Methods:** We reviewed the value frameworks from three organizations: the Memorial Sloan Kettering Cancer Center (DrugAbacus), the American Society of Clinical Oncologists, and the Institute for Clinical and Economic Review. For each framework, we developed case studies to explore the degree to which the frameworks have face validity in the sense that they are consistent with four important principles: value should be proportional to a therapy's benefit; components of value should matter to framework users (patients and payers); attribute weights should reflect user preferences; and value estimates used to inform therapy prices should reflect per-person benefit. **Results:** All three frameworks can aid decision making by elucidating factors not explicitly addressed by conventional evaluation techniques (in particular, cost-effectiveness analyses).

Our case studies identified four challenges: 1) value is not always proportional to benefit; 2) value reflects factors that may not be relevant to framework users (patients or payers); 3) attribute weights do not necessarily reflect user preferences or relate to value in ways that are transparent; and 4) value does not reflect per-person benefit. **Conclusions:** Although the value frameworks we reviewed capture value in a way that is important to various audiences, they are not always logical or consistent. Because these frameworks may have a growing influence on therapy access, it is imperative that analytic challenges be further explored.

Keywords: cost-effectiveness analysis, healthcare costs, oncology treatments, value frameworks.

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Introduction

Any algorithm used to evaluate the value of medical therapies has limitations. A single number or set of numbers cannot capture all information pertaining to the myriad benefits, risks, and costs of a wide range of treatments.

Nevertheless, algorithms used in “value frameworks,” such as those being developed and promulgated by a range of professional societies and other organizations in the United States, can be designed to better reflect outcomes of interest to stakeholders, and to account for the preferences of the patients and other agents such as payers. This study uses concrete examples—case studies—to explore the extent to which three well-known value frameworks achieve these goals.

These and other frameworks are a response to the important needs of payers, clinicians, and patients to systematically evaluate and in some cases compare therapies. The frameworks seek to expand upon traditional evaluation methodologies (e.g., cost per quality-adjusted life-year [QALY] ratios) by more explicitly accounting for the preferences of framework “users,” and by reporting results in a user-friendly manner. Also, it bears emphasizing that developing value frameworks is challenging. It is easier to criticize frameworks than to construct them. Nonetheless, it is important to explore whether notable frameworks have face

validity, that is, do they align with an externally logical and credible characterization of value? To address this question, we constructed a series of case studies.

Methods

Value Frameworks

We focused on three value frameworks: DrugAbacus (from the Memorial Sloan Kettering Cancer Center), the American Society of Clinical Oncologists (ASCO) framework, and the Institute for Clinical and Economic Review (ICER) framework.

DrugAbacus [1] aims to “determine appropriate prices for cancer drugs based on what experts tend to list as possible components of a drug’s value.” It derives an “appropriate” price for a drug on the basis of its incremental survival benefit and the value of each added survival year, as designated by the user (Fig. 1). The algorithm underlying DrugAbacus (as of August 2016) then scales this price by a series of factors, each of which reflects a characteristic, as specified by the framework’s authors (e.g., the drug’s toxicity, novelty, and cost of development) and a “preference weight” selected by the user. Each factor’s preference weight represents that factor’s maximum impact on price. For example,

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