Access, Affordability, and Sustainability: Barriers to High-Quality Care in a High-Income Country

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Introduction

There is a perception among oncologists that the field of global oncology pertains only to matters related to low- and middle-income countries (LMICs). It stems from a perception that considers lack of access to cancer care and unaffordability of therapy as problems that plague the less affluent regions of the world. In this commentary, we aim to shed light on the fact that these issues do not respect the dichotomies of high-income versus low-income countries or the global north versus south.

When physicians from high-income countries were surveyed about the access to cancer medicines deemed essential by the World Health Organization, a large majority of them felt that these medicines, including immunotherapy, were universally accessible (i.e., no substantial out-of-pocket expense for >90% of patients).1 Unfortunately, the inaccessibility and unaffordability of cancer care are profound even in high-income countries, although we perceive it as otherwise. This inaccurate fact stated by practicing oncologists makes it clear that their current understanding of the accessibility and affordability of cancer care as oncologists is faulty.

Almost 27 million (8.6%) Americans were still uninsured in 2016.2 A large proportion of cancer survivors experience financial hardships due to cancer.3 Even if we falsely assume that the out-of-pocket expense for the individual is marginal, the economic burden of cancer care is steadily rising. It is definitely not sustainable for the economy in the long run.

The US Healthcare System: An Eagle’s Eye View

In the United States, the government provides two types of health coverage for patients under the supervision of the Center for Medicare and Medicaid Services (CMS). Medicare for patients more than 65 years of age and Medicaid for the disabled. Most private and public sector employers provide health insurance as part of the employee benefits.4 A private health insurance coverage can be bought for a monthly fee from the marketplace for the self-employed. Health insurance does not cover all healthcare expenses (referred to as “cost-sharing”). Health insurance would start covering the costs after an initial “deductible” is being met by the patient, which can be ranging from hundred to a few thousand dollars depending on the plan. Then, once the patient goes for a doctor visit, he/she may have to pay a small fee (referred to as co-pay) at the respective of finances, usually about 25 to 100 dollars.

Even after the patient meets the deductible, most insurance plans pay only a part of the cost, ranging from 60 to 80%. The patient has to pay the remainder of the price (“co-insurance”). All these costs are covered by the patient account for the “out-of-pocket-maximum,” which is usually in the order of a few thousand dollars. Once the patient meets the “out-of-pocket-maximum,” the subscribed health insurance plan usually covers the remainder of the cost. The “Donut hole” is the gap in insurance coverage when a patient is responsible for the cost of the drugs after an initial period.
where the plan pays for the medications. If the patient is “uninsured” or “self-paid,” they have to depend on the safety net hospitals that may provide some financial assistance.

Pharmaceutical benefits managers (PBMs) manage the prescription drug benefits for private insurers and government health plans. Even though the PBMs were introduced to decrease the cost of prescription medicines, in reality, they work as a middleman, leading to increased cost of drugs, lower value, and increased administrative burden.

The Three-Legged Problem

We can categorize the problems in the American healthcare system into three major parts.

First, it is inaccessible. The inaccessibility of cancer care can be due to multiple reasons—regional, geographic, ethnic, racial, or socioeconomic disparities. For instance, the survival of breast cancer patients is adversely affected by where they live; patients who live in poorer neighborhoods have reported decreased survival rates. The racial disparities, Black, Hispanic, and Native American patients have more inadequate access to cancer care and consequently reported worse survival rates, have been well established in multiple cancers, including prostate cancer, cervical cancer, and head and neck cancers. Geographical disparities in cancer care have been well documented in various cancers, including breast cancer, colon cancer, and prostate cancer. For instance, geographical differences and socioeconomic deprivation lead to late-stage diagnosis and worse survival in colon cancer. Unfortunately, all of these disparities work hand-in-hand to make timely cancer care inaccessible to the most vulnerable population.

Second, it is unaffordable. Financial toxicity in cancer care is defined as the harmful personal financial burden faced by patients receiving cancer care. Catastrophic health expenditure refers to any medical expense that can threaten the household’s financial stability. One in three Americans experiences financial burden as a result of medical care. The risk of a high financial burden is significantly greater in patients with cancer than patients with other chronic medical conditions. Thirteen percent of the nonelderly patients with cancer spend at least 20% of their income, and 50% of the elderly (Medicare beneficiaries) spend at least 10% of their income on cancer treatment-related out-of-pocket expenses. Patients with cancer had a nearly threefold more significant risk of declaring personal bankruptcy. Those bankrupt patients had a 79% higher mortality risk than those who did not. Zafar et al explained the three possible reasons behind the relationship between financial distress and a higher risk of mortality: poorer subjective well-being, impaired health-related quality of life, and subpar quality of care.

Finally, it is unsustainable. The US healthcare expenditure is almost 3 trillion dollars/year (almost equal to the gross domestic product [GDP] of India in 2021). It is nearly identical to 18% of the GDP of the United States. The cost of healthcare is rising year by year. Cancer care costs are estimated to grow by 34 to 246 billion dollars by 2030. It is unsustainable for the country’s economy.

### Contributing Factors for Financial Toxicity

Multiple factors contribute to financial toxicity in the United States (Table 1). Unnecessary use of diagnostic testing leads to wastage of almost 210 billion dollars per year. Overdiagnosis (when a condition is diagnosed that would otherwise not go on to cause symptoms or death during a patient's lifetime) and overtreatment (when medical services are provided with a higher volume or cost than appropriate) are also pervasive problems. It is estimated that up to 30% of the US healthcare cost is wasted money. The use of low-value practices, including the indiscriminate use of expensive treatment modalities that offer a marginal benefit at best, also leads to substantial financial toxicity. A lack of pricing competition and choice also leads to increased cost of healthcare products and technologies. The CMS is banned from negotiating drug prices which affects the medication cost for millions of Americans. A study that reviewed the cost of cancer medicines (e.g., rituximab and bevacizumab) found that Americans are paying almost twice the price compared with Norway, likely due to the lack of negotiating power for CMS. The high cost of innovative therapeutic techniques is also a contributing factor, especially when used in terminal disease. The use of more extended course radiation treatment and indiscriminate use of proton therapy may also contribute to financial toxicity. Another cause is the excess burden of billing and insurance-related administrative cost—both by the insurer and the provider. It was estimated by a recent study in 2017 by Woolhandler and Himmelstein that the United States spends 1.1 trillion dollars on administrative costs, which is almost one-third of the healthcare expenditure.

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<th>Table 1 Contributing factors for financial toxicity in the United States</th>
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<td>1. Overdiagnosis</td>
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<td>2. Overtreatment</td>
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<td>3. Unnecessary use of diagnostic testing</td>
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<td>4. Use of low value practices</td>
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<td>8. Use of extended course radiation treatment and indiscriminate use of proton therapy</td>
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<td>9. Excess burden of billing and insurance-related administrative cost</td>
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<td>10. Lack of awareness of the cost among physicians and the patients</td>
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of physicians in the United States believe that cancer care is accessible and affordable to the whole population, but in reality, it is not. Physicians’ knowledge about the cost of diagnostic tests, medicines, or healthcare visits is poor. It was found that when the data on the fees were provided to the physicians, they cut down the use of ordering tests. So, it is crucial to educate the physician community about this cost of healthcare. Another pervasive problem pertains to the lack of price transparency. It is challenging for patients to determine how much a medical intervention will cost them. Sadly, even physicians are in the same boat.

**Solutions**

The Institute of Medicine in the United States has called for attention to the “waste in healthcare” and came up with suggestions to provide “best care at lower cost” in 2013. “Choosing wisely” campaign has been initiated as a part of this effort to curtail the use of low-value practices and thereby to decrease the cost of health care. Various organizations of physicians involved in cancer care, like the American Society of Clinical Oncology and the American Society of Radiation Oncology, have come forward with their recommendations to help in this regard. These efforts may have improved the awareness of low-value practices among oncologists; but there is no definitive evidence that these have successfully curtailed the cost.

Having the influence and power for negotiation curtails the cost of drugs to some extent. There have been some efforts to control prescription drug pricing, but more efforts are needed at a policy level. Recently, there has been an effort to have online pharmacies that can cut the cost for the patients (e.g., the cost-plus drug company). We believe this will result in competitive pricing among the various PBMs. The medical community and policymakers are having more discussions about the lack of price transparency. Allowing CMS to have the power for price negotiation will help curtail the cost of drugs. At the level of physicians and patients, education efforts are needed to improve the awareness of the problem and the potential solutions.

**Take a Leaf Out of the Indian Scene**

Cancer care in India is burdened by financial toxicity, much more than in the United States. There are multiple reasons for this, including the lack of insurance, poverty, and lesser spending by the government on healthcare. It is often suggested that the average Indian middle-class family is one medical bill away from poverty. But there are some silver linings in India; there are multiple options for generics and biosimilar drugs, which have helped decrease the cost for the patients. For instance, Nair et al reported that the availability of rituximab biosimilars in India tremendously cuts costs, leading to increased access to this life-saving therapy (35% in 2010 to 95% in 2020). Greater access to generics and biosimilars can help reduce the price of cancer therapy in the United States, with no detrimental impact on outcomes.

**Conclusion**

There are critical challenges to delivering cost-sensitive cancer care in high-income countries. Understanding the issues and applying best practices in other parts of the world would help address some pervasive problems. We believe that such bidirectional learning would improve patient care and exemplify the true meaning of global oncology.

**Conflict of Interest**

None declared.

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