

GUEST EDITORS' PAGE



Value-Based Health Care in Latin America

An Urgent Discussion



Marcelo Katz, MD, PhD, Marcelo Franken, MD, PhD,
Marcia Makdisse, MD, PhD, MBA

Cardiovascular diseases (CVDs) represent a major health problem worldwide (1,2). In Latin America, the epidemiological transition that evolved earlier in Europe and the United States will present significant challenges for the management of the increasing burden of CVD (1,2). Recent research showed that the economic costs of just 4 heart conditions in Latin America may total more than US\$30.9 billion annually (3).

This economic landscape constitutes a challenge for all health care stakeholders, who need to urgently consider innovative ways to deliver care that safely reduces population-wide health spending and to reward health care provider-based value. The status quo—the predominance of the fee-for-service payment system, based on volume and prices of the items and services provided—ultimately rewards quantity over quality, and is therefore unfit for addressing any of these challenges (4).

In this scenario, moving toward value-based health care (VBHC) has emerged as an alternative for the sustainability of the system. Value in health care can be defined as a relation between outcomes and costs needed for achieving those outcomes (5).

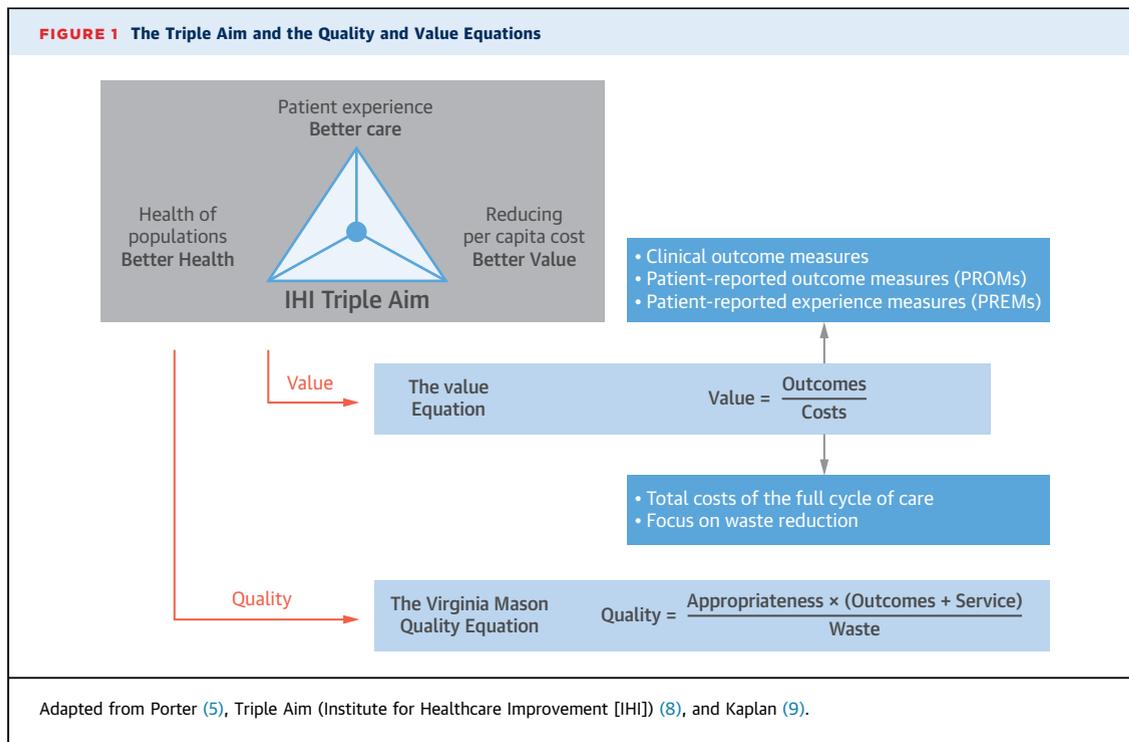
Regarding outcomes, most of the hospitals are still collecting and reporting basic clinical outcome measures, such as in-hospital mortality and complication rates. For delivering value, hospitals should consider new performance metrics that are more meaningful to

patients. These may be Patient Reported Outcome Measures (PROMs), such as quality of life and functional status, as well as Patient Reported Experience Measures (PREMs), such as the patient's perception of care quality and if he or she would recommend the hospital to family and friends (6,7).

Importantly, outcomes should be measured over the full care cycle of a medical condition, and costs should comprise the total costs used to care for a patient's condition over this cycle. Issues such as the appropriateness of care, avoiding overuse and underuse of therapies, and eliminating waste throughout the care cycle should also be considered (Figure 1) (5,6,8,9).

In VBHC, it is assumed that there will be value-based competition among different health care providers, and for this purpose, it is required that different institutions measure the same standardized outcomes over the whole care cycle. Such standardization together with transparency are essential elements of VBHC that allow comparisons (benchmarking), which may affect different stakeholders: patients who will prefer providers based on their expected outcomes and their share of the cost; providers that will prioritize areas where they deliver superior outcomes at competitive prices; payers that will negotiate contracts based on results; and suppliers that will market their products on value, considering risk-sharing, and showing improved outcomes relative to costs (5,6,10).

National and international clinical registries, such as the American College of Cardiology's National Cardiovascular Data Registries, provide clinical



outcome benchmarks to hospitals that can be used to drive local quality improvement efforts (11). Another initiative, the International Consortium for Health Outcomes Measurement, has been focusing on both defining global standard sets of outcomes and on creating a Global Health Outcomes Benchmarking Program to gather data from hospitals around the world (10). These initiatives are still in their early stages in Latin America. In Brazil, the International Consortium for Health Outcomes Measurement and the National Association of Private Hospitals are sponsoring a standardization project, starting with the heart failure standard set, that will allow national and international comparisons among hospitals. In the near future, with more Latin American hospitals participating on such programs, regional benchmarks will be available.

Data on payment models is also scarce in Latin America. In a global assessment, which included 4 Latin American countries—Brazil, Chile, Colombia, and Mexico—the results, on average, indicated a low alignment with VBHC. Colombia was the only developing country showing moderate alignment due to recent reforms, including plans to organize care delivery, and because 95% of the population has access to health insurance. Only in Chile and Colombia could the presence of enabling elements for VBHC such as bundled payments, payment for performance (Chile), and quality standardization (Colombia) be nationally

observed, where the government and/or major payer(s) were actively collecting patient treatment cost data in some areas (12).

Porter and Lee (13) proposed a value agenda for the implementation of value in health care. The strategic agenda has 6 components: 1) organize into integrated practice units; 2) measure outcomes and costs for every patient; 3) move to bundled payments for care cycle; 4) integrate care delivery across different facilities; 5) expand excellent services across geography; and 6) build an enabling information technology platform (13).

In the real world, however, implementing a value-based health care system is not a simple task. Thus, measuring outcomes and costs for every patient on a few selected medical conditions could be the very first step to implement a value agenda. To move on with the proposed value agenda, a next step we took was the creation of a Value Management Office, an integrated office aiming at disseminating the culture and aligning the concepts of VBHC throughout the hospital system, integrating data from different sources and providing insights to define feasibility of new models of value-based payments for different medical conditions, based on practice and cost variability. In fact, unwarranted care variation affects both outcomes and costs, and a set of interventions has been implemented in our institution aimed at decreasing such variability (14).

The creation of doctor-led multidisciplinary groups to engage physicians and health care professionals in defining evidence-based practices for different medical conditions is 1 such initiative that has helped to reduce waste, improve outcomes, and ultimately provide value for our patients (15).

Finally, the availability of a solid technology information platform, which includes “big data” infrastructure, may accelerate VBHC adoption and help convince clinical and administrative decision makers to pursue a value-based agenda across their organization. In our institution, a big data department has been created with the mission of incorporating the concepts of machine learning into hospital daily routine.

In conclusion, considering the epidemiological relevance and the increasing costs for preventing and treating cardiovascular diseases, VBHC emerges

as an alternative for sustainability of the health care system, with reimbursement based on care delivery efficiency. Currently, Latin America is still in its early steps moving toward a VBHC system. Deciding to establish a value agenda and starting with outcomes and cost monitoring seems to be the first step toward implementing VBHC into daily practice. If health care system transformation is needed, and if it is already happening in many countries, we must start our value journey right now.

ADDRESS FOR CORRESPONDENCE: Dr. Marcelo Katz, Hospital Israelita Albert Einstein, Av. Albert Einstein, 627, Bloco A1, 4o andar, Coordenação do Programa de Cardiologia, Sao Paulo, Brazil. E-mail: mkatz@einstein.br.

REFERENCES

1. Global Burden of Disease Study 2013 Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet* 2015;386:743-800.
2. GBD 2015 Mortality and Causes of Death Collaborators. Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet* 2016;388:1459-544.
3. Stevens B, Pezzullo L, Verdian L, Tomlinson J, Zegenhagen S. The Economic Burden of Heart Diseases in Latin America. Poster presented at: World Congress of Cardiology & Cardiovascular Health; June 4-7, 2016; Mexico City, Mexico. Available at: <http://www.deloitteacesseconomics.com.au/uploads/File/Burden%20of%20heart%20conditions%20poster%20-%20Latin%20America.pdf>. Accessed June 21, 2017.
4. Calsyn M, Lee EO. Alternatives to fee-for-service payments in health care. Moving from volume to value. Available at: <http://www.americanprogress.org/issues/healthcare/reports/2012/09/18/38320/alternatives-to-fee-for-service-payments-in-health-care/>. Accessed June 21, 2017.
5. Porter ME. What is value in health care? *N Engl J Med* 2010;363:2477-81.
6. Porter ME, Larsson S, Lee TH. Standardizing patient outcomes measurement. *N Engl J Med* 2016;374:504-6.
7. Black N. Patient reported outcome measures could help transform healthcare. *BMJ* 2013;346:f167.
8. Institute for Healthcare Improvement (IHI). The IHI Triple Aim. Available at: <http://www.ihio.org/Engage/Initiatives/TripleAim/Pages/default.aspx>. Accessed June 21, 2017.
9. Kaplan GS. Seeking Perfection in Healthcare. In: Batalden P, editor. *Lessons Learned in Changing Healthcare...and How We Learned Them*. Toronto, Canada: Longwoods Publishing Corporation, 2010: 145-59.
10. International Consortium for Health Outcomes Measurement (ICHOM). Available at: <http://www.ichom.org>. Accessed June 21, 2017.
11. The National Cardiovascular Data Registry. Available at: <https://cvquality.acc.org/NCDR-Home>. Accessed June 21, 2017.
12. Medtronic. Value-based healthcare: a global assessment. Available at: <http://vbhcglobaleassessment.eiu.com/value-based-healthcare-a-global-assessment/>. Accessed June 21, 2017.
13. Porter ME, Lee TH. The strategy that will fix health care. *Harvard Business Review*, October 2013. Available at: <http://www.hbr.org/2013/10/the-strategy-that-will-fix-health-care>. Accessed June 21, 2017.
14. The Advisory Board. Reducing unwarranted care variation: partnering with clinicians to deliver high-value care. Available at: <http://www.advisory.com/international/research/clinical-operations-board/studies/2017/care-variation>. Accessed June 21, 2017.
15. Klajner S. Physicians' engagement: medical care groups. *Einstein (Sao Paulo)* 2016;14:7-12.