

Our Health Care Delivery System Must Be Rapidly Re-Engineered

By John N. Simons, MD and Peter J. Adams

The major problem with the US health care system is how care is delivered, not how we pay for it.¹ The alternative to our costly, fragmented system is a seamless “integrated delivery system” in which physicians, hospitals, other health care providers, and often insurers provide health care in a well integrated manner using what is known as “best practices” to obtain better health care outcomes at lower cost than the current US health care system.² The widespread use of integrated delivery systems and best practices would avoid trillions of dollars of health care costs,³ result in more people getting the best possible health outcomes, make our nation more competitive economically in world markets, and preserve our standard of living.⁴ It would also avoid additional national debt because government now pays for half of all US health care costs.⁵

As explained below, more than 25% of current care costs can be squeezed out with no net loss in health outcomes.⁶ Even greater savings can be realized if consumers change unhealthy lifestyles.⁷ Additional, but smaller savings can be obtained by increasing transparency⁸ in the pricing of health care and from malpractice reform.⁹ However, the pace of health system reform has been so slow that total health care costs are projected by the President’s Council of Economic Advisors to increase by 2030 to 28% of the Gross Domestic Product (GDP) from the current 18% of GDP.¹⁰

US health care now costs total \$2.8 trillion per year, or \$9,200 per person.¹¹ Our nation’s health care expenses, as a percentage of GDP, are two and a half times the average of the 34 countries in the Organization for Economic Co-operation and Development (OECD). Such excess health care spending diverts resources consumers would otherwise use for food, housing, education, leisure and the other goods and services that are part of a reasonably high standard of living¹² – and precludes investments required for future productivity.¹³

The US is already at a competitive disadvantage in world markets because of health care costs. For example, General Motors incurs more than \$1,500 of employer paid health care costs for each automobile it manufactures in the US, while auto manufacturers in many countries, such as Japan, do not provide employees’ health insurance.¹⁴ If US health insurance premiums and national wages continue to grow at recent rates, and there are no major changes to the US health system, the average cost of family health insurance premiums will equal 50% of median household income by the year 2021 and surpass the median household income by 2033. If out-of-pocket health care costs are added to the premium costs, total health care costs per family will exceed median household income by 2030.¹⁵

Defenders of our high cost health system argue that our health care is the worlds’ best and exceptionally high expenditures are necessary.¹⁶ However, America’s infant mortality rate (i.e., percentage of infants born alive who die within the first year of birth) is 24th best in the world and our longevity is 20th best in the world.¹⁷

In fact, our nation’s centers of excellence in medical practice, research, and education have documented for decades that better health outcomes often are possible through the consistent application of well designed clinical protocols, which are often less expensive than the traditional health care they replace.¹⁸ This overall approach has been articulated simply by Intermountain Health: “Intermountain is able to provide care at a lower cost by delivering the right care in the right facility at the right time, as well as by operating efficiently.”¹⁹

Recently, America's physician specialty societies, representing more than 500,000 physicians or substantially more than half of all US physicians, endorsed a large number of best practice protocols, the implementation of which would reduce total health care expenses by up to 30% while improving outcomes.²⁰ The rapid implementation of best practices protocols generally requires sophisticated health delivery systems that have the ability to implement and monitor the use of clinical protocols by large numbers of physicians and other clinicians. This requires effective internal governance processes, advanced information systems, and other well coordinated technology.²¹ Fortunately, there are dozens of integrated delivery systems, virtually all of which are privately owned, such as Cleveland Clinic, Geisinger Health, Intermountain Healthcare, Johns Hopkins, Kaiser Permanente, Mayo, Partners Healthcare, and Scripps.

Best practices are increasingly derived from impartial scientific evaluation of large numbers of treatment outcomes.²² However, the most appropriate application of best practices requires consumers to understand their health care and be involved in treatment decisions.²³ Consumers must ask physicians and other health care providers the same questions they ask when they make other large purchases: costs; what should they expect; what the experiences have been of other patients with similar circumstances; possible complications; and, what the overall "cost/benefit ratio" will be before proceeding with major health care decisions.

Medicare, Medicaid, and other government programs now pay for approximately half of all health care costs and should be required to contract with capable integrated health delivery systems.²⁴ Private insurers should be required to provide substantial incentives for use of best practices.²⁵ Federal and state governments should support a rapid increase in the percentage of all health care provided by integrated delivery systems by granting anti-trust and other legal waivers to systems with credible plans to improve health outcomes and reduce health care costs long-term.²⁶

By substantially increasing the percentage of US health care provided by integrated health care delivery systems, we can realize substantial care cost savings and improved outcomes relatively quickly. This will allow the preservation of our nation's economic competitiveness, maintain our high standard of living, and avoid trillions of dollars in avoidable government debt. The alternative is mediocre health care at a cost that will soon literally equal average household income.

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- ¹ Elizabeth A. McGlynn, et alia, 2006, *The First National Report Card on Quality of Health Care in America*, Rand Corporation. Retrieved 3/16/2013 from http://www.rand.org/pubs/research_briefs/RB9053-2.html. Also see: Robert E. Bristow et alia, March 2013, *abstract - NCCN treatment guidelines for ovarian cancer: A population-based validation study of structural and process quality measures*, 23rd meeting of the Society of Gynecologic Oncology. Retrieved 3/12/2013 from https://www.sgo.org/wp-content/uploads/2013/03/SGO_Abstract_v3.pdf. That abstracts states, “Overall, 37.2% received NCCN [National Comprehensive Cancer Network] guideline-adherent care. Both low-volume hospitals...and low-volume surgeons... were independently associated with worse overall survival after adjusting for NCCN guideline adherence...High-volume providers are significantly more likely to provide NCCN guideline-adherent care and are associated with improved survival outcomes.” Also see: Denise Grady, March 11, 2013, *Widespread Flaws Found in Ovarian Cancer Treatment*, New York Times. Retrieved 3/11/2013 from http://www.nytimes.com/2013/03/12/health/ovarian-cancer-study-finds-widespread-flaws-in-treatment.html?hp&_r=0
- ² Alain C. Enthoven, December 2009, *Integrated Delivery Systems: The Cure for Fragmentation*, Am J Manag Care, 2009;15:S284-S290. Retrieved 3/22/2013 from http://www.ajmc.com/publications/supplement/2009/A264_09dec_HlthPolicyCvrOne/A264_09dec_EnthovenS284to290/
- ³ David Morgan, January 10, 2013, *U.S. could save \$2 trillion on health costs – study*, Reuters. Retrieved 2/28/2013 from <http://www.reuters.com/article/2013/01/10/us-usa-healthcare-costs-idUSBRE90905E20130110>. Also see: Council of Economic Advisors, June 2009, *The Economic Case for Health Care Reform*, page 2. Retrieved 2/26/2013 from http://www.whitehouse.gov/assets/documents/CEA_Health_Care_Report.pdf. Also see: Annie Lowery, February 11, 2013, *Slower Growth of Health Costs Eases U.S. Deficit*, New York Times. Retrieved 2/13/2013 from <http://www.nytimes.com/2013/02/12/us/politics/sharp-slowdown-in-us-health-care-costs.html?hp>. Also see: Charles Roehrig, September 19, 2011, *A Brief History Of Health Spending Since 1965*, Health Affairs Blog. Retrieved 2/26/2013 from <http://healthaffairs.org/blog/2011/09/19/a-brief-history-of-health-spending-since-1965/> and
- ⁴ Toni Johnson, updated March 26, 2012, *Healthcare Costs and U.S. Competitiveness*, Council on Foreign Relations. Retrieved 2/26/2013 from <http://www.cfr.org/health-science-and-technology/healthcare-costs-us-competitiveness/p13325#p2> Also see: Gary W. Loveman, June 13, 2012, *How to Fix Healthcare, Regardless of the Supreme Court's Ruling*, USNews.Com. Retrieved 2/26/2013 from <http://www.usnews.com/opinion/articles/2012/06/13/how-to-fix-healthcare-regardless-of-the-supreme-courts-ruling>.
- ⁵ *National Health Expenditure Projections 2011-2021*, Revised June 14, 2012, Centers for Medicare & Medicaid Services, Office of the Actuary. Retrieved 3/20/2013 from <http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/NationalHealthAccountsProjected.html>. Also see: Louise Radnofsky, June 12, 2012, *Steep Rise in Health Costs Projected*, The Wall Street Journal. Retrieved 3/23/2013 from <http://online.wsj.com/article/SB10001424052702303768104577462731719000346.html#articleTab=article>

⁶ *Choosing Wisely*®, February 21, 2013, American Board of Internal Medicine Foundation. Retrieved 2/27/2013 from <http://www.choosingwisely.org/doctor-patient-lists/>. Also see the Foundation's one page summary *About the Campaign* that states, "As the nation increasingly focuses on ways to provide safer, higher-quality care to patients, the overuse of health care resources is an issue of considerable concern. Many experts agree that the current way health care is delivered in the U.S. contains too much waste—with some stating that as much as 30 percent of care delivered is duplicative or unnecessary and may not improve people's health." Retrieved 3/12/2013 from http://www.choosingwisely.org/wp-content/uploads/2012/09/030513_Choosing-Wisely-One-Pager.pdf. Also see: *National Guideline Clearinghouse* (NGC), Agency for Healthcare Research and Quality (AHRQ), U.S. Department of Health and Human Services. Retrieved 3/18/2013 from <http://guideline.gov/about/index.aspx> The NGC was originally created by AHRQ in partnership with the American Medical Association and the American Association of Health Plans (now America's Health Insurance Plans [AHIP]). The NGC's mission is to provide physicians and other health professionals, health care providers, health plans, integrated delivery systems, purchasers, and others an accessible mechanism for obtaining objective, detailed information on clinical practice guidelines and to further their dissemination, implementation, and use. Also see: *Kaiser Permanente's Programs Focusing on Chronic and High Cost Diseases*, Kaiser Permanente, Undated. Retrieved 2/27/2013 from www.mtnda.com/bu/ka00115.pdf. Also see: Paul Wallace, spring 2005, Kaiser Permanente Journal, *The Care Management Institute: Making the Right Thing Easier to Do*. Retrieved 2/27/2013 from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3104832/>. Also see: *Geisinger cuts readmission rates by 44% through telemonitoring*, March 7, 2012, Advisory Board Daily-Briefing. Retrieved 2/27/2013 from <http://www.advisory.com/Daily-Briefing/2012/03/07/Geisinger-telemonitoring-system>. Also see: Robert A. Berenson et alia, March 28, 2012, NEJM, *Medicare's Readmissions-Reduction Program - A Positive Alternative*. Retrieved 2/27/2013 from <http://www.nejm.org/doi/full/10.1056/NEJMp1201268>

⁷ Gina Kolata, February 25, 2013, *Mediterranean Diet Can Cut Heart Disease, Study Finds*, New York Times. Retrieved 2/25/2013 from <http://www.nytimes.com/2013/02/26/health/mediterranean-diet-can-cut-heart-disease-study-finds.html?hp> Also see: Geoff Colvin, April 25, 2012, CNN Money, *We're having the wrong debate about rising health care costs*. Retrieved 2/27/2013 from <http://finance.fortune.cnn.com/2012/04/25/health-care-costs-debate/> Also see: Dean Ornish, June 20, 2011, *Why Health Care Works Better Than Disease Care*, The Atlantic. Retrieved 2/27/2013 from <http://www.theatlantic.com/health/archive/2011/06/why-health-care-works-better-than-disease-care/240537/>. Also see: Walter C. Willett et alia, 2006, *Prevention of Chronic Disease by Means of Diet and Lifestyle Changes*, Disease Control Priorities in Developing Countries, 2nd edition, *World Bank*, Chapter 44. Retrieved 2/27/2013 from <http://www.ncbi.nlm.nih.gov/books/NBK11795/>

⁸ Elisabeth Rosenthal, February 11, 2013, *Price for a New Hip? Many Hospitals Are Stumped*, New York Times. Retrieved 2/13/2013 from <http://well.blogs.nytimes.com/2013/02/11/price-for-a-new-hip-many-hospitals-are-stumped/?src=recg>. Also see: Steven Brill, Feb. 20, 2013, *Bitter Pill: Why Medical Bills Are Killing Us*, *Time*, Retrieved 2/27/2013 from <http://healthland.time.com/2013/02/20/bitter-pill-why-medical-bills-are-killing-us/> However, note that people with health insurance generally pay only a portion of nominal charges and about 84% of the US population has health insurance. Of the people without health insurance, most have low incomes qualify for sliding-scale-ability-to-pay discounts from nominal charges and/or do not pay their medical bills in full. Consequently, only a very small percent of consumers pay full, nominal charges. See: *People Without Health Insurance by Family Income*, September 12, 2012, US Census Bureau. Retrieved 3/12/2013 from <http://www.census.gov/hhes/www/hlthins/data/incpovhlth/2011/tables.html> Also see: Daniel J. Gottlieb et alia, January 28, 2010, *Prices Don't Drive Regional Medicare Spending Variations*, Health Affairs. Retrieved 2/27/2013 from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2919810/>

⁹ Richard H. Thaler, February 23, 2013, *Overcoming Obstacles to Better Health Care*, New York Times. Retrieved 2/25/2013 from <http://www.nytimes.com/2013/02/24/business/overcoming-obstacles-to-better-health-care.html>. Also see proposals to provide safe harbors from malpractice liability when established, evidence-based clinical protocols are followed: , *The Value of Clinical Practice Guidelines as Malpractice "Safe Harbors,"* April 2002, Robert Wood Johnson Foundation, Timely Analysis of Immediate Health Policy Issues. Retrieved 2/28/2013 from http://www.rwjf.org/content/dam/farm/reports/issue_briefs/2012/rwjf72667. Also see: Peter Orszag, October 20, 2012, *Malpractice Methodology*, New York Times. Retrieved 2/28/2013 from

<http://www.nytimes.com/2010/10/21/opinion/21orszag.html?scp=1&sq=malpractice%20orszag&st=cse>. Also see: *Medical Guidelines and practice, letters*, October 22, 2012, New York Times. Retrieved 2/28/2013 from

http://www.nytimes.com/2010/10/23/opinion/23orszag.html?_r=1& Also see: James F. Blumstein, May 2006, *Medical Malpractice Standard-Setting: Developing Malpractice "Safe Harbors" as a New Role for QIOs?*, 59 Vand. L. Rev. 1017. Retrieved 3/4/2013 from <http://law.vanderbilt.edu/publications/vanderbilt-law-review/archive/volume-59-number-4-may-2006/download.aspx?id=2663>. This article states, "When doctors and institutional providers act 'in compliance with or reliance upon professionally developed norms of care and treatment applied by' PSROs (now QIOs), 42 U.S.C. §1320c-6(c) provides immunity for such doctors and institutional providers. That is, if QIOs develop and apply standards of care for medical practice, those standards become the standards for medical liability, and 'compliance with or reliance upon' those standards on the part of providers cannot result in liability, provided that the provider exercised 'due care' in the implementation of those standards."

¹⁰ *The Economic Case for Health Care Reform*, Council of Economic Advisors, June 2009, op.cit.

¹¹ David Morgan, *U.S. could save \$2 trillion on health costs – study*, op. cit. Also see: Council of Economic Advisors, *The Economic Case*, op. cit., page 25. Also see Annie Lowery, *Slower Growth of Health Costs Eases U.S. Deficit*, op. cit.

¹² David Morgan, op. cit. Also see: Toni Johnson, *Healthcare Costs and U.S. Competitiveness*, op. cit. Also see: [Gary W. Loveman](#), *How to Fix Healthcare, Regardless of the Supreme Court's Ruling*, op. cit.

¹³ Martin Gaynor, *Health Care Spending in the United States What? Who Cares? Why? What Do We Do About It?*, February 8, 2013, Health Policy Essentials - National Health Policy Forum. Retrieved 3/18/2013 from www.nhpf.org/uploads/Handouts/Gaynor-slides_02-08-13.pdf

¹⁴ Johnson, Toni, March 2010, *Healthcare Costs and U.S. Competitiveness*, Council on Foreign Relations. Mar 2013. Retrieved 3/20/2013 from <http://www.cfr.org/health-science-and-technology/healthcare-costs-us-competitiveness/p13325#>. This article states, "Some economists say these ballooning dollar figures place a heavy burden on companies doing business in the United States and can put them at a substantial competitive disadvantage in the international marketplace. For large multinational corporations, footing healthcare costs presents an enormous expense. General Motors, for instance, covers more than 1.1 million employees and former employees, and the company says it spends roughly \$5 billion on healthcare expenses annually. GM says healthcare costs add between \$1,500 and \$2,000 to the sticker price of every automobile it makes. Health benefits for unionized auto workers became a central issue derailing the 2008 congressional push to provide a financial bailout to GM and its ailing Detroit rival, Chrysler."

¹⁵ Robert A. Young and Jennifer E. DeVoe, April 2010, *Who Will Have Health Insurance in the Future? An Updated Projection*, *Annals of Family Medicine*, Vol. 10, No. 2 ♦ March/April 2012. Retrieved 3/19/2013 from <http://www.annfam.org/content/10/2/156.full>

¹⁶ Steve Chapman, August 24, 2009, *Lack of access to health care does not explain America's infant mortality rate*. Retrieved 3/4/2013 from the Reason.com web site at: <http://reason.com/archives/2009/08/24/the-truth-about-health-care-an>

¹⁷ *OECD Health Data 2012 - How Does the United States Compare*, June 28, 2012, OECD. Retrieved 2/26/2013 from <http://www.oecd.org/unitedstates/BriefingNoteUSA2012.pdf>

¹⁸ Kaiser Permanente, *Kaiser Permanente's Programs Focusing on Chronic and High Cost Diseases*, undated. Retrieved 2/27/2013 from www.mtda.com/bu/ka00115.pdf. Also see: Paul Wallace, spring 2005, Kaiser Permanente Journal, *The Care Management Institute: Making the Right Thing Easier to Do*. Retrieved 2/27/2013 from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3104832/>. Also see: Advisory Board Daily-Briefing, March 7, 2012, *Geisinger cuts readmission rates by 44% through telemonitoring*. Retrieved 2/27/2013 from <http://www.advisory.com/Daily-Briefing/2012/03/07/Geisinger-telemonitoring-system>. Also see: Robert A. Berenson et alia, March 28, 2012, *NEJM*, *Medicare's Readmissions-Reduction Program - A Positive Alternative*. Retrieved 2/27/2013 from <http://www.nejm.org/doi/full/10.1056/NEJMp1201268>

¹⁹ *Intermountain Health, Trustee & Senior Leadership Briefing Notes – 2012*, page 5. Retrieved 2/27/2013 from <http://intermountainhealthcare.org/about/overview/trustees/fotrustees/Documents/TrusteeBriefingNotes2012.pdf>

²⁰ *About the Campaign*, American Board of Internal Medicine Foundation, op. cit.

²¹ McKinsey Quarterly, January 2010, *What does it take to make integrated care work?* Retrieved 2/28/2013 from

http://www.mckinseyquarterly.com/What_does_it_take_to_make_integrated_care_work_2506

²² *JAMAevidence*, AMA. Retrieved 3/4/2013 from http://www.jamaevidence.com/public/about_jamaEvidence accessed: 3/4/2013. This resource is a catalog of best practices.

²³ *JAMAevidence*, AMA. Op. cit. This site notes, “Evidence-based medicine (EBM) integrates the best available evidence with clinical experience that allows clinicians to recommend, and their patients to make, informed choices consistent with their values.”

²⁴ *National Health Expenditure Projections 2011-2021*, op.cit.

²⁵ Janet Adamy, October 14, 2012, *U.S. Ties Hospital Payments to Making Patients Happy*, The Wall Street Journal. Retrieved 2/27/2013 from

<http://online.wsj.com/article/SB10000872396390443890304578010264156073132.htm>. Also see: *Health Policy Brief - Pay-for-Performance. New payment systems reward doctors and hospitals for improving the quality of care, but studies to date show mixed results*, October 11, 2012, Health Affairs. Retrieved 2/27/2013 from

http://www.healthaffairs.org/healthpolicybriefs/brief.php?brief_id=78: Also see: Cheryl L. Damberg, *Efforts to Reform Physician Payment - Tying Payment to Performance*, February 14, 2013, Rand Corporation; Testimony presented before the House Energy and Commerce Committee, Subcommittee on Health. Retrieved 2/27/2013 from

http://www.rand.org/content/dam/rand/pubs/testimonies/CT300/CT381/RAND_CT381.pdf

²⁶ McKinsey Quarterly, January 2010, *What does it take to make integrated care work?* op. cit.