

FROM THE  
EDITOR

James M. Rippe, MD,  
Theodore J. Angelopoulos, PhD, MPH,  
and William F. Rippe, MD

# Lifestyle Medicine and Health Care Reform

As we write this editorial, an increasingly acrimonious debate is raging in our country concerning health care reform. Many ideas are being advanced, and competing plans seem to emerge on a daily basis. Unfortunately, whatever plan ultimately emerges appears likely to be more influenced by politics than sound public policy.



Whatever plan (or combination of plans) survives the maelstrom, all would agree that the desired goal in the reform process must be a combination of improved health outcomes and control of costs. This is the holy grail of health care reform.

While at this juncture it is impossible to predict which plan will prevail or which compromises will be required, we would argue that, in the United States, it is our daily lifestyle habits and practices that are harming our health and literally killing us. Until we as physicians and health care providers do a better job of encouraging our patients to become true partners in improving their health, through such proven lifestyle-related modalities as increased physical activity, proper nutrition, weight management, and cigarette smoking cessation, the goal of true health care reform will remain impossible to achieve no matter what framework is erected.

## Consider the Facts

There is no longer any serious doubt that what individuals do on a daily basis exerts a profound impact on both their short- and long-term health and quality of life. This is the cornerstone of what we at the *American Journal of Lifestyle Medicine* have defined as our central mission: the mission of "lifestyle medicine."<sup>1</sup>

- Less than 25% of the adult population gets adequate servings of fruits and vegetables and follows other simple, evidence-based nutritional principles related to good health.<sup>3</sup>
- More than 70% of the adult population in the United States does not get enough physical activity to result in health benefits.<sup>4</sup>

 Until prescription of positive lifestyle practices becomes a central component of modern American medicine, we are unlikely to improve outcomes or control costs of health care in the United States. 

Increasingly, the medical community and the public at large have come to understand that lifestyle habits, whether they be positive or negative, are profoundly important to health and quality of life.

Consider the following facts:

- More than two-thirds of the adult population in the United States is either overweight or obese.<sup>2</sup>
- Twenty-five percent of the adult population in the United States still smokes cigarettes.<sup>5</sup>
- The incidence of childhood obesity has tripled in the past 20 years.<sup>6</sup>
- The metabolic syndrome is now thought to be present in between 23% and 40% of the adult population in the United States.<sup>7</sup>

DOI: 10.1177/1559827609352287. From the Rippe Lifestyle Institute, Shrewsbury, Massachusetts (JMR); Tufts University School of Medicine, Boston, Massachusetts (JMR); University of Central Florida, Orlando (JMR); Center for Lifestyle Medicine, University of Central Florida, Orlando (TJA); the Department of Internal Medicine, Heartland Health, St Joseph, Missouri (WFR); and Rippe Health Evaluation, Orlando, Florida (WFR). JMR is the Editor-in-Chief and TJA is the associate editor of the *American Journal of Lifestyle Medicine*. Address correspondence to James M. Rippe, Rippe Lifestyle Institute, 21 North Quinsigamond Avenue, Shrewsbury, MA 01545; e-mail: bgrady@rippelifestyle.com.

For reprints and permission queries visit SAGE's Web site, <http://www.sagepub.com/journalsPermissions.nav>.

Copyright © The Author(s)

- The incidence of diabetes has skyrocketed in the past 20 years. Eight percent of the adult population in the United States currently has diabetes, which represents a 61% increase between 1991 and 2001.<sup>8</sup>
- Thirty-eight percent of the adult population in the United States has high blood pressure.<sup>9</sup>
- More than 40% of the adult population has glucose intolerance (a precursor to diabetes).<sup>10</sup>
- Coronary artery disease, which remains the leading killer of men and women in the United States, resulting in 37% of all mortality each year, has multiple lifestyle factors as underlying risk factors.<sup>11</sup>
- Obesity, cigarette smoking, and unprotected sun exposure contribute to more than half of all cancers.<sup>12</sup>
- Obesity is the leading cause of osteoarthritis in women and the second leading cause of osteoarthritis in men.<sup>13</sup>

The reason that we list all of these conditions as a rationale for the critical importance of lifestyle medicine in health care reform is that all of these diseases, conditions, or practices have significant lifestyle components.

Until prescription of positive lifestyle practices becomes a central component of modern American medicine, we are unlikely to improve outcomes or control costs of health care in the United States.

### **We Have Met the Enemy . . .**

In addition to the poor health outcomes that are related to negative lifestyle measures, there is a very significant economic burden of poor lifestyle choices, which further underscores the need for a firmer grasp of lifestyle medicine by the medical community. Each year, the United States spends more than \$6700 for every man, woman, and child on what is essentially “sickness” care. In contrast, virtually every other industrial economy spends considerably less. For example, Greece, which ranks as the 16th largest economy in the world, spends less than \$600 for every man, woman, and child on health care. Yet Greece achieves superior outcomes in virtually every recognized international standard of health outcome

than does the United States. Every other industrialized economy that expends less money than the United States also achieves better health outcomes. Clearly, until we embrace positive lifestyle measures and practices in modern health care, we are not going to solve this enormous financial drain on the American economy and toll on human lives.

As various culprits have emerged and been blamed for rising costs and poor outcome in American health care, the primacy of lifestyle medicine has failed to garner its proper place as a key consideration for why our health care is so expensive while our outcomes remain relatively poor. In this whole debate, perhaps the cartoon character Pogo said it best when he lamented, “We have met the enemy and he are us!”

### **Consider the Opportunity**

There is ample reason to believe that positive lifestyle measures can have an impact on reducing the health care burden of poor habits and practices in our country. For example, from the Nurses Health Study, we know that more than 80% of all heart disease in women and more than 91% of all diabetes could be eliminated if all women would adopt a cluster of positive lifestyle practices including regular physical activity (30 minutes or more on most days), maintenance of a healthy body weight (body mass index of 19-25 kg/m<sup>2</sup>), not smoking cigarettes, and following a few simple nutritional practices.<sup>14</sup>

Moreover, evidence from the Diabetes Prevention Project shows that individuals with baseline glucose intolerance can reduce their risk of developing diabetes by 58% just by increasing their physical activity and losing 5% to 7% of their body weight.<sup>15</sup>

Smoking cessation has clearly been associated with decreased risk of cancer and chronic obstructive pulmonary disease.<sup>16</sup> Increased physical activity has been repeatedly shown to lower the risk of heart disease and many cancers.<sup>17</sup> Proper nutrition has also been demonstrated in numerous studies to decrease the likelihood of developing many diseases.<sup>18</sup>

### **Consider the Evidence**

There are literally hundreds, if not thousands, of studies that support the concept that lifestyle habits and practices profoundly affect the likelihood of developing various metabolic diseases. In recognition of this robust body of medical literature, lifestyle practices form a cornerstone for many of the evidence-based guidelines used to treat common illnesses in the United States. For example, all of the following guidelines contain significant portions of lifestyle medicine practices:

- Joint National Commission Guidelines for Hypertension Prevention and Treatment<sup>19</sup>
- National Cholesterol Education Program Guidelines for Cholesterol Management<sup>20</sup>
- Institute of Medicine Guidelines for Obesity Management<sup>21</sup>
- American Academy of Pediatric Guidelines for Cholesterol Management in Children<sup>22</sup>
- American Heart Association and American Cancer Society Joint Statement on the Prevention of Heart Disease and Cancer<sup>16</sup>
- American Diabetes Association Guidelines for the Management of Diabetes<sup>23</sup>
- American Academy of Pediatrics Guidelines for the Treatment of Metabolic Syndrome<sup>24</sup>

Those who might suggest that lifestyle practices such as increased physical activity, proper nutrition, and weight management should not be part of mainstream medicine are simply ignoring the evidence-based guidelines that inform and guide our approach to the treatment of most of the chronic diseases seen in medical practice today.

### **Squandering the Opportunity**

Despite the fact that most metabolic diseases could be either ameliorated or eliminated by positive lifestyle practices, a distressingly low percentage of people in the United States follow the cluster of lifestyle practices known to decrease these risks. For example, in the Nurses

Health Study, only 4% of this population of health care workers followed all of the practices known to lower the risk of heart disease and diabetes.<sup>25</sup>

The Behavioral Risk Surveillance Study showed virtually the same appallingly low percentage of people following all of the practices known to lower the risk of chronic disease.<sup>26</sup> Clearly, there is an enormous gap between what the evidence shows people should be doing and what they actually are doing.

### Physician Responsibility

Numerous studies have shown that physician recommendation is a powerful tool in changing patient behavior.<sup>27</sup> Advice from physicians has been consistently shown to lead to patient attempts to improve overall lifestyle, increase physical activity,<sup>28</sup> and make a serious attempt to lose weight.<sup>29</sup> Despite the potential for physician counseling to change behaviors, physicians often do not take advantage of this opportunity. It has been estimated that less than 1 of every 3 patients receive any form of lifestyle counseling during routine office visits.

One aspect of physician involvement in lifestyle medicine that has not been properly emphasized in the health care debate involves the values that we should foster in our medical care system. This concept was eloquently discussed in a recent article authored by Michael Porter in the *New England Journal of Medicine*, in which he stated,

The central focus must be on increasing value for patients—the health outcomes achieved per dollar spent. Good outcomes that are achieved efficiently are the goal. Not false “savings” from cost shifting and restricting services. Indeed, the only way to truly contain costs in healthcare is to improve outcomes: in a value based system, achieving and maintaining good health is inherently less costly than dealing with poor health.<sup>30(p109)</sup>

Physicians are the key gatekeepers and should be the leaders in emphasizing this fundamental value in our health care system.

### Why Isn't the Health Care Community More Involved?

Numerous reasons have been given for why physicians do not place more emphasis on positive lifestyle counseling and recommendations in their practices. Some physicians blame lack of time in the typical office visit. Other studies have suggested that physicians who are not personally committed to positive lifestyle behaviors in their own lives are much less likely to provide counseling and recommendations in this area for their patients.<sup>31-34</sup> Lack of knowledge about how to prescribe physical activity, proper nutrition, and weight management may also contribute to the paucity of activity in this area.

A particularly disturbing excuse often given by physicians for not incorporating lifestyle recommendations relates to a common viewpoint that patient behavior will not change no matter what the physician says. Perhaps equally pervasive is the argument that physicians are not reimbursed for making these recommendations and therefore are unwilling to spend the time to make them. These insurance disincentives must be corrected to further stimulate and reward altered physician behavior.

Whatever the excuse, it is clearly time that we in the medical community recognize both our power and our responsibility to help our patients improve their health and start taking steps to incorporate this message in our daily practices.

### A Multifaceted Problem

Lest it appear that we are laying this entire problem at the feet of the health care community, it is important to acknowledge the vital role of other stakeholders. Increased public education in these areas is mandatory. Public policy in health care must shift toward prevention. Insurance incentives must be shifted toward health preservation and enhancement rather than the current emphasis on expensive sickness treatments and subspecialty treatments and procedures. Yet none of these are likely to happen with-

out leadership from an active, engaged, and motivated health care community.

### True Reform

Historically in the United States, there have been numerous reform movements. One of the periods of great foment in the area of reform occurred in the mid-19th century around the time of the Transcendentalists, who were writing and discussing their views on human nature. A persuasive essay written during this period by the eminent American philosopher Ralph Waldo Emerson argued that true reform could occur only when individuals were first reformed. Only with individual reform could society then be reformed. As Emerson so eloquently stated more than 100 years ago, “The criticism and attack on institutions which we have witnessed, has made the thing plain, that society gains nothing whilst a man, not himself renovated, attempts to renovate things around him.”<sup>35</sup>

We contend that one of the key considerations that has been largely absent from the debate concerning various health care models is the key role that physicians can play by personally reconsidering and reforming issues of partnership with their patients and incorporating lifestyle medicine recommendations into their daily practices. If this type of reform can occur, then the whole system can be reformed.

### Lifestyle Medicine Is Health Care Reform

Let us restate and underscore our central premise of this editorial: no viable health care reform will occur in our country to achieve better health care outcomes and control costs until we get control of the lifestyle issues that are driving both poor health outcomes and enormous expense.

We in the health care community have both an enormous responsibility and opportunity in this area. The evidence is no longer debatable that positive lifestyle decisions profoundly affect both short- and long-term health and quality of life.

In the name of health care reform, old and worn out excuses about lack of time, knowledge, and/or lack of reimbursement for failing to guide our patients toward

healthier lifestyles must come to an end. It is time for us in the medical community to embrace the abundant evidence that already exists that regular physical activity, proper nutrition, weight management, smoking cessation, and other lifestyle-related habits and practices profoundly affect not only the health of our patients and their economic well being but also the very financial stability of our country.

With true physician leadership, we can win the battle to educate our patients, reform insurance practices to incentivize health preservation and disease prevention, and turn health care in the positive direction it needs to go.

It is time for us to remember why we entered health care in the first place: to make a difference in people's lives. Forming true partnerships with our patients and offering evidence-based advice on how daily habits and actions profoundly affect long-term health is overdue. In this regard, there is no time to waste. Lifestyle medicine really is true health care reform and must be put into practice immediately, beginning within the medical community itself. **AJLM**

## References

- Rippe JM, Angelopoulos TJ. The *American Journal of Lifestyle Medicine*: a forum, a vision, and a mandate. *Am J Lifestyle Med*. 2007;1:7-9.
- Ogden CL, Carroll MD, Curtin LR, McDowell MA, Tabak CJ, Flegal KM. Prevalence of overweight and obesity in the United States, 1999-2004. *JAMA*. 2006;295:1549-1555.
- Centers for Disease Control and Prevention. Fruit and vegetables consumption among adults—United States, 2005. *MMWR Morb Mortal Wkly Rep*. 2007;56:313-317.
- Barnes PM. Physical activity among adults: United States, 2000 and 2005. <http://www.cdc.gov/nchs/products/pubs/pubd/hestats/physicalactivity/physicalactivity.htm>.
- Centers for Disease Control and Prevention. Tobacco use among adults—United States, 2005. *MMWR Morb Mortal Wkly Rep*. 2006;55:1145-1148.
- Troiano RP, Flegal KM, Kuczmarski RJ, Campbell SM, Johnson CL. Overweight prevalence and trends for children and adolescents: the National Health and Nutrition Surveys, 1963-1991. *Arch Pediatr Adolesc Med*. 1995;140:1085-1091.
- Janiszewski PM, Saunders TJ, Ross R. Lifestyle treatment of the metabolic syndrome. *Am J Lifestyle Med*. 2008;2:99-108.
- Mokdad AH, Ford ES, Bowman BA, et al. Prevalence of obesity, diabetes, and obesity-related health risk factors, 2001. *JAMA*. 2003;289:76-79.
- National Health and Nutrition Examination Survey. US Department of Health and Human Services. Centers for Disease Control and Prevention. National Center for Health Statistics. 1990-2101 Survey Content.
- Centers for Disease Control and Prevention. Prevalence of diabetes and impaired fasting glucose in adults—United States, 1999-2000. *MMWR Morb Mortal Wkly Rep*. 2003;52:833-837.
- Rosamond W, Flegal K, Friday G, et al. Heart disease and stroke statistics—2007 update: a report from the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation*. 2007;115:e69-e171.
- Brown CH, Baidas SM, Hajdenberg JJ, et al. Lifestyle interventions in the prevention and treatment of cancer. *Am J Lifestyle Med*. 2009;3:337-348.
- The Arthritis Foundation. [www.arthritis.com](http://www.arthritis.com)
- Bassuk SS, Manson JE. Lifestyle and risk of cardiovascular disease and type 2 diabetes in women: a review of the epidemiologic evidence. *Am J Lifestyle Med*. 2008;2:191-213.
- Knowler WC, Barrett-Conner E, Fowler SE, et al. Reduction in the incidence of type 2 diabetes with lifestyle intervention or metformin. *N Engl J Med*. 2002;346:393-403.
- Eyre H, Kahn R, Robertson R. ACS/ADA/AHA scientific statement: preventing cancer, cardiovascular disease and diabetes. *Circulation*. 2004;109:3244-3255.
- US Department of Health and Human Services. *A Report of the Surgeon General on Physical Activity and Health*. Atlanta, GA: US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion; 1999.
- US Department of Health and Human Services, US Department of Agriculture. *Report of the Dietary Guidelines Advisory Committee on the Dietary Guidelines for Americans*. Washington, DC: US Department of Health and Human Services, US Department of Agriculture; 2005.
- Chobanian AV, Bakris GL, Black HR, et al. The Seventh report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure: the JNC 7 report. *JAMA*. 2003;289:2560-2571.
- National Heart Lung and Blood Institute. Third report of the Expert Panel on Detection, Evaluation and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III). <http://www.nhlbi.nih.gov/guidelines/cholesterol/index.htm> (updated version 2004).
- Institute of Medicine of the National Academies. *Childhood Obesity Prevention*. Washington, DC: Institute of Medicine of the National Academies; 2008.
- American Academy of Pediatrics. Guidelines on cholesterol screening. July 7, 2008. <http://www.aap.org/new/july08lipid-screening.htm>.
- American Diabetes Association. Are you at risk? <http://www.diabetes.org/diabetes-cholesterol/risk.jsp>.
- Daniels S, Greer F, Committee on Nutrition. Lipid screening and cardiovascular health in childhood. *Pediatrics*. 2008;122:198-208.
- Stampfer MJ, Hu FB, Manson JE, Rimm EB, Willet WC. Primary prevention of coronary heart disease in women through diet and lifestyle. *N Engl J Med*. 2000;343:16-22.
- Reeves MJ, Rafferty AP. Healthy lifestyle characteristics among adults in the United States, 2000. *Arch Intern Med*. 2005;165:854-857.
- Greenlund K, Giles W, Keenan N, et al. Physician advice, patient actions, and health-related quality of life in secondary prevention of stroke through diet and exercise. *Stroke*. 2002;33:565-571.
- Goldfine H, Ward A, Taylor P, Carlucci D, Rippe JM. Exercising to health: what's really in it for your patients? Part 1: the health benefits of exercise. *Phys Sports Med*. 1991;19:81-81.
- Sciamanna CN, Tate DF, Lang W, Wing RR. Who reports receiving advice to lose weight? Results from a multistate survey. *Arch Intern Med*. 2000;160(15):2334-2339.
- Porter ME. A strategy for health care reform—toward a value-based system. *N Engl J Med*. 2009;361:2:109-112.
- Frank E, Schelbert K, Elon L. Exercise counseling and personal exercise habits of US women physicians. *J Am Med Womens Assoc*. 2003;58:178-184.
- Frank E, Wright E, Serdulle M, Elon L, Baldwin G. Personal and professional nutrition-related practices of US female physicians. *Am J Clin Nutr*. 2002;75:326-332.
- Abramson S, Stein J, Schaufele M, Frates E, Rogan S. Personal exercise habits and counseling practices of primary care physicians: a national survey. *Clin J Sport Med*. 2000;10(1):40-48.
- Lewis C, Clancy C, Leake B, Schwartz J. The counseling practices of internists. *Ann Intern Med*. 1991;114(1):54-58.
- Emerson RW. New England reformers. In: *Collected Essays*, 2nd series. Boston, MA: Houghton, Mifflin; 1876.