Public Health and Primary Care: Expanding the Role

Peter G. Fitzpatrick, Ed.D., R.Ph1, Marcia K. Butler, Rdh, Drph2
Kendolyyn Smith, Pharmd, Mph3, John M. S. Bryan, Ph.D4

1Healthcare Management Program, College of Health, Clayton State University, Morrow
2Healthcare Management Program, College of Health, 2000 Clayton State Blvd, Morrow
3Healthcare Management Program, College of Health, Clayton State University, Morrow
4Healthcare Management Program, College of Health, Clayton State University, Morrow

peterfitzpatrick@clayton.edu

INTRODUCTION

A clear argument can be made that the essence of public health is a collective exercise to create environments where people can be healthy (Tilson & Berkowitz, 2006). The nature of what it means to be healthy has been changing. The greatest challenges to health are now chronic diseases: cardiovascular disease, cancer, hypertension, asthma, and diabetes (Mayes & Armistead, 2013). Within the developed countries chronic diseases consume the largest percentage of health care expenditures (Schroeder, 2007). In the United States this problem is even greater as chronic diseases account for 75% of our health care expenditures (Centers for Disease Control and Prevention, 2009). If we accept the premise that the essence of public health is to keep people healthy, then the inclusion of public health into primary care becomes logical. It also becomes evident, and economically necessary, that primary care focus more on reducing the impact of chronic diseases. Here is where we believe a greater focus on primary care can produce very meaningful results. Public health should provide a much greater role in this reduction.

Assessment of primary care services

The United States health delivery system is complex due to the nature of the ideals of healthcare that exist within the population. The United States lacks a single national entity or set of policies guiding the health care system; physicians and hospitals practicing in the same community and caring for the same patients are not connected to each other (Doctors for America, 2015). It should be of note that when the health reform initiatives were originally initiated, there were issues of declining health insurance and also increasing cost for the care
within the United States. However, “a third crisis also has captured the attention of policy makers; the decline of primary care.” (Bodenheimer, 2010). The Starfield pillars of primary care identified four features of primary care services: first-contact access for each need; long-term person- (not disease) focused care; comprehensive care for most health needs; and coordinated care when it must be sought elsewhere (Bodenheimer, 2010). The Institute of Medicine’s definition of primary care is consistent with ensuring that integrated, accessible health care services are provided and that there are clinicians who are accountable for addressing a large majority of personal health care needs (Institute of Medicine [IOM], 2010). In 2010, research by the Agency for Healthcare Research and Quality (AHRQ) noted that the number of practicing primary care physicians in the United States was approximately 209,000 (Agency for Healthcare Research and Quality [AHRQ], 2010). More recent data from the Kaiser Family Foundation’s State Health Facts reports that as of June 2015 notes that the number of totally active primary care physicians in the United States is 430,150 (Kaiser Family Foundation [KFF], 2015). California has the highest number of active primary care physicians with 49,112, followed by New York (35,569) and Texas (27,859). The other top 10 states where the most primary care physicians are practicing in the United States are identified in Table 1.

In terms of populations of patients within the United States, there is a wide variety of differences among communities. The needs for services vary depending on whether the community is rural or urban. Only about 11 percent of the nation’s physicians work in rural areas, despite nearly 20 percent of Americans living there (National Conference of State Legislators [NCSL], 2012). Primary Care will be challenged to address the needs of all populations, which are transforming the services and partnerships of the past. According to The John's Hopkins Primary Care Policy Center, “Primary Health services” are defined as (1) health services related to family medicine, internal medicine, pediatrics, obstetrics, or gynecology, (2) diagnostic laboratory and radiologic services, (3) preventative health services, (4) emergency medical services and (5) pharmaceutical services. In reality, not all services are provided as robustly as others within different segments of our communities. There are traditional facilities where primary care services are offered in the United States that include single practices, group practices, managed care organizations, public health facilities and corporations. Today, there are also emerging, non-traditional facilities, including emergency departments, specialty care centers, school wellness areas and workplace wellness centers. Whether traditional or non-traditional, issue of access, quality and cost still are essential components to address, along with how to keep facilities in compliance, utilize additional practitioners and adapt to changes in health care for sustainability.

Table 1: Top 10 States with the highest number of Primary Care Physicians

<table>
<thead>
<tr>
<th>STATE</th>
<th>Primary Care Physicians</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>49,112</td>
</tr>
<tr>
<td>New York</td>
<td>35,569</td>
</tr>
<tr>
<td>Texas</td>
<td>27,859</td>
</tr>
<tr>
<td>Florida</td>
<td>24,609</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>21,167</td>
</tr>
<tr>
<td>Illinois</td>
<td>19,480</td>
</tr>
<tr>
<td>Ohio</td>
<td>17,466</td>
</tr>
<tr>
<td>Michigan</td>
<td>16,257</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>14,005</td>
</tr>
<tr>
<td>New Jersey</td>
<td>13,294</td>
</tr>
</tbody>
</table>
There are new models of care that are gaining interest in the United States. Some practices can now become certified Patient Centered Medical Homes (PCMH). Other models of care are also being considered to improve outcomes and focus on collaborative health care. The new programs and services must be unique to the area rather than just transitioning urban focused programs to rural communities. With the ACA, the problem is expected to get bigger as more people are being driven into the healthcare system. Unfortunately, few communities have the funding, facilities or the number of providers to accommodate their additional needs. Options for providing additional care through existing rural providers include, expanding services to nurse practitioners (NP’s), Physician Assistant’s (PA’s), Pharmacists and other non-physician health professionals currently engaged with patients to improve the outcomes within their impacted communities. PCMH models allow patients to be engaged with a team of healthcare professionals, including their provider in order to begin the process of transforming health care to a more integrated approach that is appropriate and includes access to community resources when there is a need.

The Integrated Health Model (IHM) is another option of inclusive use of physician and non-physician professionals. Some of the IHM features are designed to incorporate more specific health needs, such as Mental Health and Behavioral Health. In seeking to integrate care through these new models, the outcomes are improved and the cost of care becomes less when access is more readily available.

According to Healthy People 2020, access to healthcare is important for (1) overall physical, social, and mental health status, (2) prevention of disease, (3) detection and treatment of illness, (4) quality of life, (5) preventable death and (6) life expectancy.

Public Health and Primary Care are aligned in their goals but have historically worked as independent entities. In an effort to provide care that is based on equity, the complexities of cost, quality and access to care continues to remain critically important in determining how to ensure that health delivery become exemplary for all. The next decade should be aligned with moving toward an integrated system instead of factions between public health and primary care. In rural communities, access to primary care is essential in providing for physical, social and mental health services, prevention of disease, treatment of illnesses, quality of life, preventable death and life expectancy. There are significant gaps within the rural health care system. The most common gaps are cost, quality and access.

Although public health and primary care are focused on similar goals in providing care and services, they have typically operated as their own independent entities. In considering where there are opportunities to make changes that will better align the two; there are many factors that are important. In many instances, gaps exist for rural communities that do not occur in urban areas. There is a new challenge for public health as it strives to meet the needs of populations of patients but individualize the approach toward ensuring optimized cost, quality and access to health needs. Gaps that are perceived and realized remain to be cost, quality and access to care. Access is the most likely to be impacted significantly impacted in rural areas. Based on the 2012 Institutes of Medicine’s (IOMs) Brief on Primary Care and Public Health: Exploring Integration to Improve Population Health, new opportunities are emerging to bring these two areas together. However, it will not be a short-term simple fix; rather there will be various phases of change due to differences between communities based on needs, social climate and expertise. Additionally, local, state and federal agencies have been tasked with continuing to make strides toward partnerships between primary care and public health. It is well understood that mutual awareness may be considered a big accomplishment in some communities, while cooperation and collaboration will be huge milestones in other communities. Figure 1 identifies the manner in which integration will take place if it is to happen between public health and primary care.
The Role of Local Public Health Departments in the Delivery of Primary Care Services

The 2002 report by the IOM The Future of the Public’s Health in the 21st Century, reiterates the definition of public health as “What we as a society do collectively to assure the conditions in which people can be healthy” (IOM, 2003, p. 28). The three core areas of public health are assessment, assurance and policy development and include ten essential functions (Figure 2). The pillar of the public health system is the Local Health Department (LHD). There are approximately 2,800 LHDs in the United States (NACCHO, 2014) that are legally required to provide the essential public health services within their communities (IOM, 2012a, p. 3). The size of the communities which LHDs serve range from populations of less than 10,000 to populations over 1,000,000 (NACCHO, 2014). Because of the varied population differences there are also multiple levels of jurisdictions that include city, metropolitan, county, and tribal units or multi-county regions or districts. In addition to these multiple jurisdictions, there are different funding schemes within the state and local governments that help finance the services provided, as well as a diverse public health workforce to provide those services. For these reasons, the scope of public health services within these communities vary tremendously from providing surveillance services to clinical services.

Figure 2: Ten Essential Public Health Services

<table>
<thead>
<tr>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Monitor health status to identify community health problems</td>
</tr>
<tr>
<td>2. Diagnose and investigate health problems and health hazards</td>
</tr>
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<table>
<thead>
<tr>
<th>Policy Development</th>
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<tbody>
<tr>
<td>3. Inform, educate, and empower people about health issues</td>
</tr>
<tr>
<td>4. Mobilize community partnerships to identify and solve health problems</td>
</tr>
<tr>
<td>5. Develop policies and plans that support individual and community health efforts</td>
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<table>
<thead>
<tr>
<th>Assurance</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Enforce laws and regulations that protect health and ensure safety</td>
</tr>
<tr>
<td>7. Link people to needed personal health services and assure the provision of health care when otherwise unavailable</td>
</tr>
<tr>
<td>8. Assure a competent public health and personal health care workforce</td>
</tr>
<tr>
<td>9. Evaluate effectiveness, accessibility, and quality of personal and population-based health services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Serving All Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Research for new insights and innovative solutions to health problems</td>
</tr>
</tbody>
</table>

Source: Public Health Functions Steering Committee (1994)
The National Profile of Local Health Department Study Series (Profile Survey) is a survey conducted by the National Association of County and City Health Officials (NACCHO) for local health departments to determine the public health services that LHDs currently provide, which may include environmental services, population-level services or individual-level clinical services (primary care). This Profile Survey has been administered several times from 1989 to 2013. This study utilized the 2013 LHD Profile Survey, which had a response rate of 79% representing over 2,532 LHDs to determine the scope of primary care services provided. This survey was selected because it provides the most current representative sample of primary care services after the budget crisis from 2008 and prior to the implementation of the ACA. The primary care services were divided into four categories provided by the LHDs. These categories were immunizations, maternal and child health (MCH), chronic disease management, and other services.

The results from the 2013 Profile Survey, indicates that the most common public health services provided by LHDs are population-based. Ninety-one percent of local health departments provide communicable and infectious disease surveillance programs, 90% provide adult and child immunizations, and 83% provide Tuberculosis screenings (NACCHO, 2014). In addition, environmental health surveillance programs were provided by 78% of the LHDs (NACCHO, 2014). The primary care services provided are diverse and are dependent upon the size of the community. A larger percentage of primary care services are more common among LHDs who serve larger populations.

Although immunizations can be classified as a population-health program, it is also considered to be a primary care service and as previously mentioned, is the most common service offered by LHDs. Among the maternal and child health (MCH) services offered, 60% of LHDs of any size provided maternal and child home health care visits and 54% provided family planning services. A little more than 30% of the LHDs provided any type of clinical services such as early periodic screening, diagnosis or treatment (EPSDT) programs (36%) or well-child care clinics (32%) and even fewer offer obstetrical care (8%) (Table 2). Chronic disease management services are provided by half of the LHDs, where only 11% of all LHDs provide comprehensive care services. Among all LHDs, high blood pressure screenings (57%) were the most commonly offered screening program and cardiovascular screening (27%) the least offered. Behavioral/mental health services and substance abuse programs were the least likely programs to be provided across all LHDs.

<table>
<thead>
<tr>
<th>Services</th>
<th>All LHDs</th>
<th>&lt;25,000</th>
<th>25,000-49,999</th>
<th>50,000-99,000</th>
<th>100,000-499,999</th>
<th>500,000+</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Immunizations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult Immunizations</td>
<td>90%</td>
<td>87%</td>
<td>92%</td>
<td>94%</td>
<td>93%</td>
<td>92%</td>
</tr>
<tr>
<td>Child Immunizations</td>
<td>90%</td>
<td>85%</td>
<td>92%</td>
<td>93%</td>
<td>92%</td>
<td>95%</td>
</tr>
<tr>
<td><strong>Maternal and Child Health</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPSDTb</td>
<td>36%</td>
<td>36%</td>
<td>37%</td>
<td>37%</td>
<td>37%</td>
<td>38%</td>
</tr>
<tr>
<td>Family Planning</td>
<td>54%</td>
<td>50%</td>
<td>55%</td>
<td>57%</td>
<td>61%</td>
<td>63%</td>
</tr>
<tr>
<td>MCH Home Visits</td>
<td>60%</td>
<td>53%</td>
<td>57%</td>
<td>66%</td>
<td>68%</td>
<td>78%</td>
</tr>
<tr>
<td>Prenatal Care</td>
<td>27%</td>
<td>20%</td>
<td>27%</td>
<td>34%</td>
<td>32%</td>
<td>35%</td>
</tr>
<tr>
<td>Well Child Clinic</td>
<td>32%</td>
<td>29%</td>
<td>31%</td>
<td>36%</td>
<td>35%</td>
<td>33%</td>
</tr>
<tr>
<td>Obstetrical Care</td>
<td>8%</td>
<td>5%</td>
<td>8%</td>
<td>9%</td>
<td>14%</td>
<td>18%</td>
</tr>
<tr>
<td><strong>Chronic Disease Management</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Diseases</td>
<td>50%</td>
<td>42%</td>
<td>48%</td>
<td>54%</td>
<td>60%</td>
<td>72%</td>
</tr>
</tbody>
</table>

*EPSDTb: Early Periodic Screening, Diagnosis or Treatment*
The IOM defines primary care services as “the provision of integrated, accessible healthcare services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community” (IOM, 2012a, p. 3). The majority of clinical services or primary care services that are provided by LHDs are critical to the communities for whom they serve and are in line with this definition. Currently there is some controversy among LHD leaders as to whether clinical services is critical to the overall core functions of public health because there is a multitude of players, both public and private organizations as well as individuals, that are intertwined in the public health system whose goals are to support the three core functions of public health (IOM, 2003, p. 28). However, some LHDs regard providing primary care services as part of their mission and as an essential function, especially to the vulnerable populations in their communities, as a safety net provider if there are not any other options due to a shortage of health professionals or services (Bekemeier, Pantazis, Dunbar & Herting, 2014; Hsuan and Rodriguez, 2014). Nevertheless, there has been a decline in clinical services offered and currently only half of the LHDs still provide a range of primary care services to the uninsured and underinsured (IOM, 2012b, p. 66). The 2013 LHD Profile Survey, provides further evidence of the decreases in clinical services offered by all LHDs. Among the primary services offered, all of the screening services for diseases or conditions (diabetes, high blood pressure, cardiovascular, and cancer) saw a significant decrease from the 2005 LHD Profile Survey data (NACCHO, 2014). Specifically, diabetes screening decreased from 48% by all LHDs to 36% and cancer screenings decreased from 42% providing this service to 36% (Table 3).

Local Health Departments are facing challenges that will have an effect on providing direct primary care services. These challenges include changes in the public health workforce, continued reductions in state and local budgets, and the implementation of the Affordable Care Act (ACA). However, some LHDs are adapting to these changes by reducing their primary care services and expanding their population-based prevention services, while other LHDs will continue to support their primary care services by finding other ways to be reimbursed for the primary care services through third-party billing, or by collaborating with other healthcare providers in their communities. This may include forming an Accountable Care Organization (ACO) with other local entities or collaborating with federally qualified health centers.

### Table 1: Screening and Other Services by Local Health Departments

<table>
<thead>
<tr>
<th>Service</th>
<th>LHDs Providing</th>
<th>2005</th>
<th>2010</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes Screening</td>
<td>36%</td>
<td>35%</td>
<td>34%</td>
<td>40%</td>
<td>37%</td>
<td>42%</td>
</tr>
<tr>
<td>HBP* Screening</td>
<td>57%</td>
<td>62%</td>
<td>57%</td>
<td>58%</td>
<td>49%</td>
<td>50%</td>
</tr>
<tr>
<td>CVD* Screening</td>
<td>27%</td>
<td>23%</td>
<td>26%</td>
<td>32%</td>
<td>29%</td>
<td>39%</td>
</tr>
<tr>
<td>Cancer Screening</td>
<td>36%</td>
<td>30%</td>
<td>34%</td>
<td>42%</td>
<td>44%</td>
<td>44%</td>
</tr>
<tr>
<td>Other Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comprehensive PCf</td>
<td>11%</td>
<td>7%</td>
<td>9%</td>
<td>16%</td>
<td>15%</td>
<td>20%</td>
</tr>
<tr>
<td>APMg</td>
<td>19%</td>
<td>13%</td>
<td>16%</td>
<td>21%</td>
<td>26%</td>
<td>44%</td>
</tr>
<tr>
<td>EMSh</td>
<td>3%</td>
<td>2%</td>
<td>1%</td>
<td>3%</td>
<td>5%</td>
<td>17%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>27%</td>
<td>20%</td>
<td>23%</td>
<td>26%</td>
<td>38%</td>
<td>66%</td>
</tr>
<tr>
<td>Home Health Care</td>
<td>21%</td>
<td>28%</td>
<td>19%</td>
<td>20%</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>Behavioral or Mental</td>
<td>10%</td>
<td>7%</td>
<td>8%</td>
<td>12%</td>
<td>14%</td>
<td>28%</td>
</tr>
<tr>
<td>Substance Abuse</td>
<td>7%</td>
<td>4%</td>
<td>6%</td>
<td>9%</td>
<td>10%</td>
<td>20%</td>
</tr>
</tbody>
</table>

Note. *Data provided from the 2013 National Profile of Local Health Departments, by %. EPSDT = early periodic screening, diagnosis, and treatment; MCH= maternal and child health; HBP = high blood pressure; CVD = cardiovascular disease; PC = primary care; APM = asthma prevention and management; EMS = emergency medical services

The IOM  defines primary care services as “the provision of integrated, accessible healthcare services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community” (IOM, 2012a, p. 3). The majority of clinical services or primary care services that are provided by LHDs are critical to the communities for whom they serve and are in line with this definition. Currently there is some controversy among LHD leaders as to whether clinical services is critical to the overall core functions of public health because there is a multitude of players, both public and private organizations as well as individuals, that are intertwined in the public health system whose goals are to support the three core functions of public health (IOM, 2003, p. 28). However, some LHDs regard providing primary care services as part of their mission and as an essential function, especially to the vulnerable populations in their communities, as a safety net provider if there are not any other options due to a shortage of health professionals or services (Bekemeier, Pantazis, Dunbar & Herting, 2014; Hsuan and Rodriguez, 2014). Nevertheless, there has been a decline in clinical services offered and currently only half of the LHDs still provide a range of primary care services to the uninsured and underinsured (IOM, 2012b, p. 66). The 2013 LHD Profile Survey, provides further evidence of the decreases in clinical services offered by all LHDs. Among the primary services offered, all of the screening services for diseases or conditions (diabetes, high blood pressure, cardiovascular, and cancer) saw a significant decrease from the 2005 LHD Profile Survey data (NACCHO, 2014). Specifically, diabetes screening decreased from 48% by all LHDs to 36% and cancer screenings decreased from 42% providing this service to 36% (Table 3).

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Table 3: LHDs Select Screening Programs for Diseases/Conditions (by Profile Study Years 2005 and 2013)

<table>
<thead>
<tr>
<th>Clinical Screening Program</th>
<th>2005</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Blood Pressure Screening</td>
<td>69%</td>
<td>57%</td>
</tr>
<tr>
<td>Diabetes Screening</td>
<td>48%</td>
<td>36%</td>
</tr>
<tr>
<td>Cancer Screening</td>
<td>42%</td>
<td>36%</td>
</tr>
<tr>
<td>Cardiovascular Screening</td>
<td>34%</td>
<td>27%</td>
</tr>
</tbody>
</table>

Source: NACCHO, National Profile of Local Health Departments, 2013.

LIMITATIONS

As the National Profile of Local Health Department Survey is self-reporting, there are limitations to this survey that we must take into account when discussing the services and programs provided. First, this survey does not allow for LHDs to provide extensive details on the scope or scale of some of their services or programs. Second, this survey does not explicitly provide the definition of many of the 87 programs or services included, so the interpretation of the programs and services they provide may differ among the respondents. Third, some of the LHDs were given additional questions to answer, which may not convey the whole picture of the primary care services that are provided within all of the LHDs. However, this Profile Survey does provide very valuable information concerning the current state of local health departments and the public health services and programs that are offered.

PUBLIC HEALTH MODEL

The divide between traditional medicine and public health has many roots, but probably the most significant is financial. When Medicare and Medicaid were developed to serve the elderly and the poor reimbursement was focused on treatment and not prevention. This created a basic divide between medicine and public health owing to financial incentives mainly being given to medicine for procedures and dealing with major illness, rather than to public health and its role in prevention (Scutchfield, Michener, & Thacker, 2012).

The separation of medicine and public health was further exacerbated during the 1970’s and 1980’s as greater emphasis was placed on cost containment in health care. Previously reimbursed primary care services performed by public health were no longer funded (Stephens, 1990). With this departure by public health from primary care a huge deficit was produced in the offering of these services. This deficit was especially acute in many rural areas and inner-city neighborhoods in the United States. The core of the problem seemingly rests with payment and reimbursement schemes. In general, in healthcare delivery we pay to do things. We undervalue cognitive and preventative services by not paying for them. What we believe needs to be created is a system that funds both prevention and primary care services: enter public health.

The recently initiated and upheld Affordable Care Act provides a variety of funding schemes that can combine preventative services with primary care services (Scutchfield et al., 2012). A number of these projects are available through the Centers for Disease Control (CDC). Our proposed model would use this funding to create within already existing public health facilities, primary care clinics staffed primarily by nurse practitioners, pharmacists, and health educators. Where possible, the range of these public health clinics could be increased by using mobile clinics. Services that would be provided would be modeled after those offered at clinics currently housed in many retail pharmacies. Additionally, our pharmacists would be available to do Medication Therapy Management (MTM) for conditions such as asthma, diabetes, and hypertension among others. Our
health educators would provide diet and exercise education, smoking cessation programs, and any other health education programs that a specific area may need. Our goal is to provide health care services to the underserved, and to lower costs and improve outcomes. A condition that can serve as an illustration for our model is the afore mentioned asthma.

A study conducted to evaluate the cost of asthma revealed that for the years 2002 – 2007 the incremental direct cost was $3,259 per person per year. Additionally, the cost of days lost per year was $301 for each worker and $93 for each student. For the year 2007, the total incremental cost for the United States was $56 billion along with morbidity losses of $3.8 billion, and productivity losses of $2.1 billion (Barnett & Nurmagambetov, 2011). The tragedy of these losses is that most of them are preventable. The key elements to better asthma management are high-quality health care, patient education, and optimizing the management of asthma (Follenwelder & Lambertino, 2013). All of these elements would be addressed by our health care teams within the public health institutional settings. In addition, the adverse effects of asthma disproportionately affect blacks and the rural poor (Follenwelder & Lambertino, 2013). We suspect that this is a pattern of a variety of diseases and conditions that our model would address. The recently initiated and upheld ACA provides a variety of funding schemes that can combine preventative services with primary care services (Scutchfield et al., 2012). A number of these projects are available through the Centers for Disease Control (CDC). Our proposed model would use this funding to create within already existing public health facilities, primary care clinics staffed primarily by nurse practitioners, pharmacists, and health educators. Where possible, the range of these public health clinics could be increased by using mobile clinics.

**CONCLUSION**

The need to reach the most disenfranchised of our citizens for their health care needs and services is clear. Much has been written and attempted and yet many basic problems still remain. With the seemingly inexorable increases in health care spending, and the ageing of our population, it would appear that true movement to serve the underserved probably won’t happen any time in the near future. Our proposal is to use existing facilities, expand the presence of allied health care providers, and allow them to provide services which are currently not be offered in many areas. This is only a first step, and yet we feel a critical one if we are to produce solutions to this problem.

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