HEALTH CARE IN THE AGE OF ECOLOGY

In the Spring 1970 issue of the *Forensic Quarterly*, the journal of the National Federation of State High School Associations, the lead article began as follows:

The decade of the 1970's may well bear witness to the dawning of the age of ecology—the age in which man realizes that he is a part of nature, not apart from nature. The previously obscure term "ecology" is apt to become as commonplace as "motherhood" and "apple pie" in the political rhetoric of our nation's leaders and in the polemics of political activists. . . . The question is not whether the environment is deteriorating, although some disagree over the magnitude of the loss, but rather, what can be done to check the current destruction, to repair past damage, and to establish some balance in the environmental ecosystem? . . . The problem of environmental quality is particularly consequential to today's high school students because they will be—or fail to be—the heirs of nature's ecological legacy—a livable environment.¹

The research that went into the preparation of that essay (and a handbook of resources I helped edit after soliciting information from more than three dozen U.S. senators), made a lasting impression on the author—that is, me. Now, almost 35 years later, a certain blend of nostalgia, awe, and pride fuels my appreciation of what my employer of the past 30 years, Catholic Healthcare West (CHW), has done to ensure that the ecological awareness of the late 1960s and early 1970s continues to flourish in the system's mission, philosophy, and actions.

CHW Core Values

CHW, whose corporate offices are in San Francisco, is a system of 40 hospitals in California, Nevada, and Arizona. Sponsored by eight congregations of women religious, it is the third largest not-for-profit religious hospital system in the nation.

Central to CHW's mission is a focus on providing high-quality health care services to all, especially those who are poor and underserved, and partnering with others to promote the overall health of the community. When we CHW people say "community," we mean community in the widest sense possible: the whole Earth community, not just those within the walls of our hospital members.

CHW's ecological initiative is two-pronged:

- The strategic dimension directs the system's facilities to improve their business practices so that CHW hospitals can minimize any negative impact on the environment.
- The spiritual dimension cultivates an awareness of the interconnection of all things.

CHW's leaders understand that what lies "outside" any organism—person, plant, animal, or institution—is very much connected to what lies "inside" it. If one part is compromised, all are compromised. If the planet happens to be unhealthy, individuals and communities will be unhealthy as well. In CHW's organizational culture, spirituality and ecology are accordingly closely aligned.
CHW’s mission is reflected in a set of core values and a systemwide strategic map that provides broad strategic direction for each member hospital. Each facility is directed to consider how it can create and deploy operational budgets that allow the facility to not only meet the health care needs of the local community but also to determine how the facility can maintain ecological sensitivity and fulfill the institution’s responsibility to be a good corporate citizen. The five core values that shape the activities of all member hospitals are:
- **Justice** Advocate change of social structures that undermine human dignity, demonstrating a special concern for those who are poor.
- **Collaboration** Work together with people who support a common vision to achieve goals.
- **Dignity** Respect the inherent value and worth of each person as a member of the human family.
- **Excellence** Share a commitment to quality in work through teamwork and innovation.
- **Stewardship** Accept accountability for the management of human, financial, and ecological resources.

CHW’s vision is to be linked with other nationally recognized health care leaders in sustaining a customer-focused, value-driven, process-managed, results-oriented health care organization focused on clinical outcomes, health promotion, care management, and spiritual care. The vision is to be not just “best in the world” but “best for the world”—the world of patients and their families. Being best for the world includes viewing the planet itself as a primary healer and source of health for the human being.

CHW strives to establish and sustain a position as a consistently solid financial performer so that sufficient capital can be reinvested in facility, staff, and equipment. But, whereas financial solidity is necessarily an enabler of our future, it is not in itself sufficient to ensure the success of the system’s mission and ministry. CHW also has a primary focus on measures that reflect how well it is meeting the needs of its patients and staff. CHW strives to meet these needs in ways that are environmentally friendly.

**CHW’s “Strategic Map”**

To carry out its mission, CHW’s corporate leaders engage more than 300 leaders throughout the system to create and maintain an annually updated, broad-brush vision of the role the system wishes to play in providing health care services to facility-specific communities. Several points on this “strategic map” highlight the system’s commitment to meet not only the needs of its patients and its staff but also the needs of planet Earth:
- **Public Policy and Advocacy** Implement an integrated, systemwide public policy and advocacy strategy that results in expanded access to health care, a more favorable regulatory environment for providers, improved program reimbursement for providers, and better stewardship of Earth’s resources.
- **Shareholder Advocacy** Ensure deployment of a shareholder advocacy plan that addresses issues of corporate social and environmental accountability at portfolio companies is reviewed and approved by the CHW Investment Committee.
- **Annual CERES Report** Ensure that the annual CHW Environmental/CERES Report (based on principles developed in 1996 by the Coalition for Environmentally Responsible Economies, or CERES) shows a 100 percent achievement of systemwide waste reduction and resource conservation goals.

**Public Commitment and Accountability**

During fiscal year 2003 CHW marked its seventh year of formal commitment to environmental conservation and protection. The system’s board of directors—recognizing that providing compassionate, high quality, affordable health care in a way that enhances patient and employee safety and minimally affects the environment is central to CHW’s mission—endorsed the CERES principles. CERES is a not-for-profit organization composed of leading social investors, environmental groups, and public entities that promote environmentally responsible economic activity for a just, healthy, and sustainable future throughout the world.*

To join CERES, an organization must promise to abide by 10 non-negotiable principles that are sometimes described as “the house rules of the planet.” The principles are:
- Protect the biosphere
- Use natural resources wisely
- Minimize risk to employees and community
- Restore environmental damage
- Elicit commitment from top management
- Reduce waste
- Conserve energy
- Provide safe products and services
- Inform the public
- Audit and report

In keeping with the 10th principle, CHW is required each year to conduct an environmental audit and then report to the public:

*For more information about CERES, call 617-247-0700 or access www.ceres.org/.
· How much water and energy the system is using
· How much solid and medical waste the system is generating
· How much waste the system is recycling
· How well the system is improving its waste disposal/recycling

CHW has developed a tool that each of its facilities uses to report data on the solid and medical waste generated in each quarter. This data enables CHW to set systemwide and facility-specific goals for waste reduction and encourages the sharing of best practices throughout the system.

In support of the goals of Hospitals for a Healthy Environment (see Laura Brannen, "Managing Medical Waste," p. 25), CHW has developed and implemented a systemwide environmental mercury-elimination policy stating that CHW hospitals will not use products or processes that contain mercury, unless no alternatives are available.

**Mandate for Facilities**

Each CHW facility is mandated to have an environmental action committee. The members, who are selected from different departments, meet regularly to set and monitor goals and to use their expertise and creativity to help their hospital focus on its specific ecology initiatives.

Each CHW facility has an “ecocontact”—a person who, serving as the liaison between the facility and the system’s corporate offices, is responsible for finding ways to use the system’s resources wisely, save money, and improve the environment. “Ecocontacts” report how the facility is disposing of waste and constructing or retrofitting buildings.

Among what CHW calls its “Mission Integration Standards” is one on ecology, which says: “CHW exercises responsible stewardship of the environment and partners with others to advance ecological initiatives.” The standard emphasizes the necessity of developing environmental policies, gathering data, and educating staff at both the system and local levels. Through its corporate offices, the system coordinates a wide range of activities that are deployed at each hospital. In fiscal 2003, these activities aimed at reducing the use of, reusing, or recycling various resources and at conserving them through the redesign of established processes.

**Efforts to Reduce the Use of Resources**

Among these initiatives were:

· **Water Saver Program** The United Nations declared 2003 the “International Year of Freshwater,” calling on each person to help safeguard the most precious source of life on our planet. CHW is implementing what it calls its “Water Saver/Plus” program to reduce water consumption and waste stream production. The system will attach 300 devices to wet film processors to reduce the consumption of water needed to develop high-quality x-rays. Once fully implemented, this program is expected to save 140,000,000 gallons of water (about 90 percent of the total water currently used for x-ray production) a year and reduce wastewater production;

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**Dominican Has Been an Environmental Leader**

Dominican Hospital, Santa Cruz, CA, formed its Ecology Task Force in the late 1980s. Recycling and reduction programs for heavy-strength paper, cardboard, and other items have been part of the corporate culture since that time. The hospital’s focus on ecology sharpened in 1995, when Sr. Mary Ellen Leciejewski, OP, was appointed coordinator of the hospital’s Ecology Program.

In 1997 Dominican Hospital became a member of Healthcare Without Harm, an international campaign dedicated to improving the environmental performance of the health care industry without compromising safety or care. The hospital’s purchasing policy includes buying mercury- and PVC (polyvinyl chloride plastics)-free products whenever possible. In 2001 Dominican Hospital joined Hospitals for a Healthy Environment (H2E).

Today, Dominican Hospital’s 1,400 employees are involved in recycling paper, cans, plastics, fluorescent tubes, batteries, and blue sterile wraps. Each year, the facility recycles tons of plastic, paper, and cardboard, and sends medical equipment to emerging countries. However, as Sr. Leciejewski has noted, recycling and reusing is just one aspect of environmental consciousness. The other two “rs”—reducing and (especially) redesigning—are also important in maintaining a healthy planet.

For more than 11 years, the hospital has operated a store, called DominAgain, that offers reusable hospital goods to the community at no cost. These items include scrub brushes, blue sterile wraps, white cards for calligraphy, plastic containers, saline solution bottles, dishes, and pails with lids.

In 1996 Dominican Hospital launched a “red-bag” (see p. 21) waste reduction program; the program separates regular trash from medical waste, which is more costly to transport and process.

Since 1997, the hospital has every year won a WRAP (Waste Reduction Awards Program) award recognizing its efforts in reducing waste and protecting the environment.* In 2002 Dominican Hospital was one of 10 state organizations to receive the “WRAP of the Year Award.” The facility was also the recipient of the H2E Partners for Change Award in 2002 and 2003.

“The honor is a testament to the ecological awareness, support, and hard work of our sisters, administrators, and employees,” says Sr. Mary Ellen. “That is key in the development and progress of our ecological initiative and our mission to improve the health of the community we serve.”

*WRAP is sponsored by the California Integrated Waste Management Board.
CHW now includes environmental values in its construction plans.

Mercury: A Dangerous Metal

Here are some little-known facts about mercury pollution.

- A single gram of mercury can contaminate a 20-acre lake so badly as to require the issuing of fish advisories. (One gram of mercury weighs the same as one M&M).
- Forty states have now issued mercury advisories concerning their rivers, lakes, and streams.
- Every year, thermometers containing about 17 tons of mercury are dumped in U.S. landfills.
- One hundred fluorescent lamps combined contain no more than four grams of mercury.


• Mopless System Many CHW facilities are switching to a "mopless" system of cleaning floors. The mopless system, an alternative to traditional cotton mops, is a microfiber pad that lifts up to seven times its weight in dirt and moisture, is lint free, and uses only one-twentieth of the cleaning solution required by traditional mops. Since the pads never enter the solution tank, the cleaning solution remains fresh, thereby eliminating the threat of cross-contamination.

Efforts to Reuse Resources Rather than disposing of used items immediately, CHW has launched the following campaign:

- "Single Use" to Multiple Use CHW contracted with a company that specializes in reprocessing "single use" items to allow for multiple uses. Items range from surgical instruments to scrub uniforms. CHW expects to reach its initial goal, a 30 percent exchange of all eligible devices systemwide, with associated annual savings of at least $2 million.

CHW has also contracted with a firm to purchase reusable pulse oximeters (noninvasive devices used to measure the level of oxygen in the blood of the arteries and heart rate). The shift to reusable devices will, over a five-year period, reduce by one million the number of disposable probes entering landfills. Savings are projected to top $7 million. As a result of its achievements at CHW, the company secured a contract with a group purchasing organization and is now offering an environmentally preferable product to one third of the nation's hospitals. CHW's purchasing specialists deserve credit for changing the marketplace philosophy for sensor oximetry from disposable to reusable.

Efforts to Recycle Resources As CHW reuses some items, it recycles others, including the following:

- Blue Wrap Fifteen CHW facilities now recycle both the blue plastic wrap used to protect surgical instruments and other soft plastic wraps, such as bags for intravenous apparatuses. The recycled plastic is processed and then used as siding for houses. Blue wrap represents at least 20 percent of all the waste created in the surgical arena. Last year, Dominican Hospital, Santa Cruz, CA, diverted 16,000 pounds of blue wrap from its solid waste disposal. St. Mary's Medical Center, San Francisco, collected and bailed 2,500 pounds of sterile wrap in 100 days. California's Department of Health Services endorses the project; a video filmed at St. Mary's is shown at other facilities around the state as an example of how blue wrap recycling can work.

Efforts to Redesign Resources CHW now includes environmental values in its construction plans, as the following demonstrates:

- Sustainable Building CHW's leaders are beginning to understand the connections between human health, and environmental quality, awakening to the irony that health care facilities may be exposing patients to a host of harmful substances through the building materials used. CHW's real estate team has developed what it calls a "Sustainable Design Mission Statement," complete with guidelines that ensure sustainable siting, design, construction, management, and disposal practices in construction projects throughout the system. In September, CHW's board of directors reviewed and approved a sustainable-building policy.

Aboard Spaceship Earth

The United States has come a long way since 1970, when a Cleveland businessman rebuked a newspaper reporter for suggesting that his company was causing industrial pollution. "It's not our waste that's making the lake smell," the businessman said. "It's all the dead fish."2

Today responsible businesses, such as CHW's 40 facilities, take very seriously the need to be solid corporate citizens. Perhaps the admonition given in the criteria for the Malcolm Baldrige Award for Performance best summarizes the challenge for health care providers:

A health care organization's leaders should stress responsibilities to the public, ethical behavior, and the need to foster improved community health. Leaders should be role models for your organization in focusing on ethics and the protection of public health, safety, and the environment. Protection of health, safety, and the environment includes

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any impact of your organization's operations. Also, organizations should emphasize resource conservation and waste reduction at the source. Planning should anticipate adverse impacts that may arise in a facility's management, as well as in the use or disposal of radiation, chemicals, and biohazards. Effective planning should prevent problems, provide for forthright responses if problems occur, and make available information and support needed to maintain public awareness, safety, and confidence. . . . Public health service and supporting the general health of the community are important citizenship responsibilities of health care organizations.5

Adlai E. Stevenson, a onetime U.S. ambassador to the United Nations, established the metaphor for the challenge that faces all business as they strive to fulfill their corporate citizenship responsibilities to protect the environment. He wrote: "We travel together, passengers on a little space ship, dependent on its vulnerable supplies of air and soil, preserved from annihilation only by the care, the work, and the love we give our fragile craft."6

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4. Quoted in Ribicoff.

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... fundamental relationality with others implies responsibilities to others. At minimum, we should not harm them. Optimally, we ought to seek their good.

• Distributive Justice Societal goods and resources should be distributed equitably.
• Common Good Because of our social nature, we ought to contribute to the creation of "conditions of social life which enable individuals, families, and organizations to achieve complete and efficacious fulfillment."7 In this light, health care organizations ought to contribute to the public good in part by seeking to improve the health status of the community.
• Respect Human Dignity Because we believe that each person is made in the image and likeness of God, we ought to treat others with profound respect and utmost regard.
• Beneficence Our decisions and actions ought to contribute to the well-being of others.
• Nonmaleficence Our decisions and actions should not harm others.
• Economics in the Service of People While seeking profit is certainly a legitimate goal of economic decisions, policies, and institutions, they must ultimately be in the service of all people, especially the poor.
• Stewardship Health care resources should be delivered and used prudently, efficiently, effectively, equitably, and in a manner that reflects professional standards of quality.

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