

# Quality of Life: A Bridge Between the Biomedical and Illness Models of Medicine and Nursing?

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One of the ultimate goals of medicine is improvement in the patient's quality of life. This is particularly the case for patients with a limited life span. Palliative or hospice care developed as a discipline because the needs of the dying patient and his or her family were not being met by the health care system. Conflicts between nurses and physicians often arise over the care of patients with incurable malignancies and other terminal illnesses. These conflicts frequently centre around physicians' apparent insensitivity to quality of life issues. Conflicts over the care of patients with terminal illnesses originate, at least in part, from the different theories or models of practice characteristic of the professions of nursing and medicine.

## BIOMEDICAL AND ILLNESS MODELS

Models provide a way of organizing information to enhance structure and meaning. They provide discipline for practice and a framework for teaching. Models reflect the culture and milieu of the times and incorporate implicit values (1). Clinical practice is greatly influenced by, and reflects, the models inherent in the profession. Theories influence professional effectiveness and performance as well as influencing relationships — within the profession, with other professionals, and ultimately with patients (2).

Traditional Western medicine is based on the biomedical or disease model. The biomedical model was devised by medical scientists and applies scientific methods to the understanding, treatment, and prevention of diseases (3). It is reductionist in nature and embraces a mind-body dualism. The reductionism of classical science seeks to understand the whole by reducing things to their smallest units. The biomedical model assumes that all deviations from the norm are the result of measurable abnormal structures or biochemical deviations. Outcomes of therapies are measured in terms of changes in measurable tests, response rates, and survival. Both the reductionism and the mind-body dualism of the biomedical or disease model have been fundamental to the great strides made in the understanding, categorizing, and treatment of disease. Problems arise when this model is used in clinical practice to the exclusion of humanistic considerations.

The biomedical model leaves little or no room for the psychological, social, behavioral, and spiritual

dimensions of illness. Subjective, nonmeasurable, experiential information is considered irrelevant. There is skepticism among physicians as to whether psychological and social factors are as "real" as biologic ones (4). In their attempt to objectify illness, physicians remove themselves from the world of their patients and do not acknowledge the fullness of the human context in which the illness occurs (5). Symptoms are seen as manifestations of syndromes and diseases, not as obstacles to a person's comfort and social functioning. Medical expertise is seen as the ability to investigate, diagnose, prolong life, and cure (6). Such a perspective can lead to the uncritical application of invasive procedures or therapies. Technology is a powerful tool, one that can be difficult to reject. Therapies themselves can be a source of suffering. Diagnosis and treatment of disease and improved quality of life are not logically related in the biomedical model, and the biomedical model has become the culturally accepted medical view of disease.

Nursing has been strongly influenced by the biomedical model, but it rejects the reductionism and mind-body dualism of the full version of this model (1). Although there are many models of nursing, two basic assumptions underlie the practice: (a) that professional nursing is interpersonal in nature, and (b) that nurses view human beings as holistic (7). Different nursing theories emphasize different aspects of care, such as manipulating the environment to ensure optimal independence and health for the patient, promoting the patient's adaptive responses, and enhancing interpersonal relationships and social supports (8). Nursing assessment looks at physical symptoms and disabilities as well as psychological, social, emotional, and spiritual concerns. Attention is focused on the person who is ill. Illness as a concept refers to the experiences of the patient and the difficulties faced by the patient (9). If one model could encompass the essence of nursing, perhaps it would be called the "illness" model.

## EDUCATION

The medical education system perpetuates the biomedical model as the cultural norm. For example, first-year medical students at the University of Manitoba study the basic sciences almost exclusively (Table 1), with only 46 hours devoted to behavioral medicine and 14 hours to interviewing and history taking. Theoretical and practical management of the major clinical manifestations of dis-

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