What do We Know about Uncertainly in Illness?

When I began my original research on uncertainty, the concept of uncertainty had not previously been applied in the health and illness context. My original Uncertainty in Illness Theory (1988) drew from existing information processing models and personality research from the psychology discipline, which characterized uncertainty as a cognitive state resulting from insufficient cues with which to form a cognitive schema, or internal representation of a situation or event. I attribute the underlying stress/appraisal/coping/adaptation framework in the original theory to the work of Lazarus and Folkman (1984). What is unique is my structure of the theory, consideration of uncertainty as both a negative and positive cognitive state and application of this framework of uncertainty as a stressor within the context of illness. These points make the framework particularly meaningful for nursing. Currently there are two theories of Uncertainty in Illness, the original theory which I will emphasize in the presentation and the re-conceptualized theory which I will cover more generally.

The uncertainty theory by Mishel (1988) explains how uncertainty develops in patients with an acute illness and how patients are proposed to deal with uncertainty. With the development of the Uncertainty in Illness scales, the research on uncertainty has proliferated. Most of the research has focused on either the diagnosis or treatment phase of acute illness, illness survivorship and living with chronic illness. Some consistent findings have emerged. Across all illnesses studied to date, uncertainty decreases over time but returns with illness recurrence or exacerbation. Uncertainty is highest or most distressing while awaiting a diagnosis. Illness symptoms can lead to uncertainty when the symptoms change over time, are unpredictable and inconsistent. When symptoms can not be linked to a specific illness or disease, this situation results in higher levels of uncertainty. Similarly, severe illness where the outcome is unknown has been reported to lead to uncertainty. This has been found in a number of studies with varying patient samples including those with cardiovascular Merle H. Mishel, RN, PhD. FAAN Kenan Professor School of Nursing University of North Carolina at Chapel Hill Chapel Hill, NC, 27599. USA

disease, and cancer. In studies where patients' symptoms are not clearly distinguishable from those of other co-morbid conditions or where symptoms of recurrence can be confused with signs of aging or other natural processes, symptoms are associated with uncertainty.

Both social support and the relationship with health care provider have been studied as resources available to the patient to help manage uncertainty. A number of studies have explored the relationship between social support and uncertainty. Current evidence is strong for the role of social support in reducing uncertainty among those with an acute illness. However the type of social support needed and who is seen as supportive changes over time and by illness. The role of the health care provider in reducing uncertainty is substantiated for persons receiving treatment for cancer, yet few studies have been done to explore the role of the health care provider with other acute illness populations. Also, there is some evidence that health care providers do not function as a source of support for reducing uncertainty in parents of acutely ill children; however there is a need for further exploration since there are few studies in the area.

There is a growing body of literature on parent experience of uncertainty in caring for an ill child. There is one literature review of this work. Recently there has been support for the relationship between symptoms of post traumatic stress and uncertainty in mothers of ill children. The association of post traumatic stress and uncertainty has also been reported for other populations dealing with illness. Concerning the role of personality dispositions such as mastery or optimism in reducing uncertainty, the evidence is variable from acute illness to chronic illness. A number of personality dimensions have been identified in chronic illness as effective in managing uncertainty In acute illness, there is some support for mastery and optimism. Studies of coping with uncertainty in acute illness have resulted in consistent findings for the relationship between uncertainty and emotion-focused coping. However, the qualitative studies offer a greater variety of strategies to manage uncertainty

Uncertainty functions differently in chronic illness in comparison with acute illness. Also in chronic illness we find the survivors of acute illness. The similarities and differences between survivors and those diagnosed with a chronic illness will be further clarified in the presentation. However, it is important to recognize that some of the differences can be traced to the design of the study as either qualitative or quantitative. Concerning the causes of uncertainty, the findings from qualitative data have provided a rich description of the causes of uncertainty across a variety of chronic illnesses. From the qualitative work, symptom unpredictability, an unknown future and the possibility of disease recurrence and extension have been identified as causes of uncertainty. Lack of information to make the future more predictable has also emerged from qualitative studies as an antecedent of uncertainty. The literature is rich with descriptions of these causes of uncertainty, especially the unpredictability of symptoms. The uncertainty resulting from erratic symptom display that is characteristic of some chronic illnesses has been fully described in the research done to date.

There is sufficient evidence that uncertainty has a negative impact on quality of life and psycho-social adjustment in acute and chronic illness populations. Since the evidence is consistent and strong it provides direction for interventions to target illness-specific outcomes. I have conducted six intervention studies where the focus was on teaching either breast cancer or prostate cancer patients how to manage uncertainty. These interventions are easily applicable to nursing practice and patients report that they have gained skills in managing the disease. Improvement in specific symptoms and attitudes was reported from patients in the intervention studies. Improvement in emotional state was found in another intervention study with men with recurrent and advanced prostate cancer. Even long term survivors reported gains in knowledge and in finding resources to manage enduring treatment side effects. There is evidence for the effectiveness of supportive educational interventions in modifying the adverse outcomes from uncertainty. Repeated testing of these interventions and the development of other theory and research based interventions that build on the body of existing descriptive research should be the direction of future research.





How Uncertainty is Generated 不確かさがどのように生じるのか
Factors within the person and environment influence perception of illness-related events.
人と環境の要因が,病気に関連する出来事の知覚に影響 する
Perception requires recognition and classification of illness-related events.
知覚は,病気に関連する出来事の認識と分類を必要とする
Lack of recognition and classification or incorrect classification leads to uncertainty.
認識と分類の不足, または誤った分類が不確かさを招く

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What do We Know about Uncertainty in Illness?



Uncertainty theory was developed from the literature and research on uncertainty using the Mishel Uncertainty in Illness Scale.

不確かさの理論は、Mishelの病気の不 確かさ尺度を用いた文献や研究により 発達した

8

刺激因子

出来事の熟知度

(+)

Stimuli Frame

12

event familiarity

symptom pattern 症状パタ・

(+)

Cognitive

Capacities

認知能力

event congruence 出来事の一致度

Uncertainty

不確かさ

(-)

構造提供因子

教

信頼できる専門家 ソーシャルサポー

(-)

Structure Providers

credible authority

social support education





What do We Know about Uncertainty in Illness?



- general experience 一般的経験
- specific knowledge 特定の知識
- contextual cues 状況から得られる手掛かり

Danger 危険

幻想

Opportunity

好機

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見なされる。彼らは症状の原因と結果に関する情報

を提供しながら刺激の枠組みを強化する

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