Uncertainty in living-donor transplant settings: a review of the literature

Abstract

Purpose: To organize the knowledge regarding uncertainty among recipients, donors, and family members in living-donor transplant cases, and identify potential consequences of uncertainty.

Method: The keywords “living donor*” and “uncertainty” were used to search PubMed and CINAHL databases for studies published between 2000 and August 2016. By using Mishel’s uncertainty in illness theory1 as a reference, contents related to uncertainty were extracted from the articles.

Result: Twelve studies were selected. None defined uncertainty clearly. Studies discussing living-donor kidney transplant recipients or donors were the most common. Time prior to a transplant, potentially being a recipient or donor, and being on the transplant waiting list were frequently reported as stages in which recipients and donors perceived uncertainty. Poor psychosocial outcomes, including confusion, anxiety, and needing help from healthcare providers, were reported as the most frequent consequences of uncertainty. On the other hand, becoming a risk taker was also reported as a consequence of uncertainty among donors.

Conclusion: No studies consider uncertainty as a strength or an opportunity for the growth of recipients and donors. Future research should identify interventions to facilitate personal growth through managing uncertainty.

Keywords: uncertainty, living-donor transplant, recipient, donor, mishel’s uncertainty in illness theory, review

Introduction

Uncertainty in relation to illness has been defined as the inability to determine the meaning of illness-related events, and managing uncertainty may result in personal growth.1,2 Transplant therapy has become an increasingly common treatment; however, uncertainty still exists among recipients and their families. Due to the higher proportion of living-donor transplants between relatives in Japan, managing uncertainty is not only necessary for recipients, but also for donors and family members. However, uncertainty and its management have been understudied in this population. Thus, this review aimed to organize the knowledge regarding uncertainty among recipients, donors, and family members in living-donor transplant cases, and identify potential consequences of uncertainty.

Methods

A flow diagram of the selection of studies and inclusion/exclusion process is shown in Figure 1. The keywords “living donor*” and “uncertainty” were used to search PubMed and CINAHL databases. A search was performed to identify studies published between 2000 and August 2016. As selection criteria, studies had to refer to cognitive uncertainty of recipients, donors, and family members in living-donor transplant cases and be original articles written in English. By using Mishel’s uncertainty in illness theory1 as a reference, contents related to uncertainty were extracted from the articles. The studies that did not sample living-donor transplant recipients or donors, and did not refer to uncertainty as a cognitive status, were excluded from the analysis.

Results

Twelve studies were selected in this review Table 1. Studies on living-donor kidney transplant recipients or donors were the most...
common, but studies on stem cell transplant were also included. No studies focused on uncertainty related to donors’ uncertainty may be expanded by this review. No studies considered uncertainty as strength or an opportunity for the growth of recipients and donors. However, uncertainty might motivate potential donors’ decision for living-donor transplant. Future research should identify interventions to facilitate personal growth managing uncertainty.

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Conflict of interest
The author has no financial conflict of interest to disclose concerning this study.

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Table 1 List of studies included in the analysis

| Literature | Publication Details |
|------------|---------------------|
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