Experienced Quality of Post-Acute and Long-Term Care From the Care Recipient's Perspective-A Conceptual Framework

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Special Article

Experienced Quality of Post-Acute and Long-Term Care From the Care Recipient’s Perspective—A Conceptual Framework

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A B S T R A C T

This article aims to conceptualize experienced quality of post-acute and long-term care for older people as perceived by care recipients. An iterative literature review and consultations with stakeholders led to the development of the INDEXQUAL framework. INDEXQUAL presents the process of an individual care experience consisting of a pre (expectations), during (experiences), and post (assessment) phase. Expectations are formed prior to an experience by personal needs, past experiences, and word-of-mouth. An experience follows, which consists of interactions between the players in the caring relationships. Lastly, this experience is assessed by addressing what happened and how it happened (perceived care services), how this influenced the care recipient’s health status (perceived care outcomes), and how this made the care recipient feel (satisfaction). INDEXQUAL can serve as a framework to select or develop methods to assess experienced quality of long-term care. It can provide a framework for quality monitoring, improvement, and transparency.

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Long-term care (LTC) comprises a range of services to maintain or improve the functional and health outcomes of frail, chronically ill, and physically or cognitively disabled older people. LTC has been defined as “the activities undertaken by others to ensure that people with or at risk of a significant ongoing loss of intrinsic capacity can maintain a level of functional ability consistent with their basic rights, fundamental freedoms and human dignity,” portraying the importance of relationships within this type of care delivery. LTC provision used to be considered a task-oriented, profession-driven service focused on safety and efficiency. Over the past decades, there has been an ongoing culture change striving toward a more holistic approach to care provision, incorporating not only the professional, but also the care recipient’s perspective, thus allowing more focus on the care recipient preferences, autonomy, and self-determination.

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This increasing focus on the care recipient’s perspective has led to the development of quality indicators that can be assessed by the care recipients themselves by means of patient-reported outcome measures, including severity of pain and patient-reported experience measures such as the Consumer-Quality Index.\(^{15,16}\) Patient-reported outcome measures and patient-reported experience measures do not capture the care recipient’s journey, which is important for establishing the experienced quality of care for an older person.\(^ {17}\)

Furthermore, from a service science perspective, care service delivery has certain characteristics that complicate the assessment of the experienced quality of care from the recipient’s perspective. Care service delivery is characterized as being intangible, heterogeneous, perishable, interactive, and multifaceted.\(^ {18,19}\) This means that the experience of care provision is built on interactions between people involved in a value-creating process, and, therefore, its quality cannot be judged in advance (intangible), it cannot be provided with uniformity (heterogeneous), and it cannot be stored; thus, the location and timing influence the experiences as well (perishability). Care provision is usually achieved during interactions between the care recipient and the care provider (interactive), and it is considered a complex service (multifaceted quality). The complexity of care services in combination with the more holistic view on (health) care and the increasing importance of the care recipient’s perspective have resulted in the need for a clear understanding of the meaning of experienced quality of LTC.

### Conceptualization of Experienced Quality of LTC

To conceptualize experienced quality of care, we performed multiple actions. The literature within the service sciences and health sciences was reviewed to identify models and frameworks defining the process of service quality from the user’s perspective, and care quality from the care recipient’s perspective. Iterative searches were performed in PubMed, PsycInfo, and EBSCO Business Source Complete, and by means of snowballing. We used search terms including “quality of care,” “experienced quality,” and “service quality.” Based on identified relevant articles, we added search terms including “expectations,” “perceived quality,” “patient reported,” and “satisfaction.” We considered articles relevant if they presented a model, framework, concept, or theory related to experienced quality of LTC from the care recipient’s perspective. Studies focused on the evaluation of an intervention or validation of an instrument were not considered out of scope. In addition, the gray literature was searched to assure key publications were identified. Appendix 1 presents additional information on the article selection.

The identified models and frameworks were reviewed, compared with each other, and combined into a conceptual framework because existing models and frameworks did not fully fulfill the research aim to conceptualize experienced quality of LTC from the care recipient’s perspective. This was an iterative process, during which results were reviewed, discussed, and adjusted in the research team. The research team consisted of a professor in care of older persons, a professor in old age medicine, a professor in nursing science, a professor in customer centric service science, an associate professor in LTC design, and 2 researchers with a background in psychology and health sciences. In addition, a panel of experts was assembled and gathered 3 times to reflect on the framework. This panel consisted of representatives from multiple national stakeholders in the Netherlands specialized in LTC policy, including the Ministry of Health (n = 2), the National Health Care Institute (n = 2), the National Client Council (n = 1), the Professional Association of Nurses (n = 2), the Health and Youth Care Inspectorate (n = 2), and Nursing Home Organizations (n = 4). When consensus could not be reached within the research team, the topic of discussion was presented to the panel of experts. Eventually, these iterative steps have resulted in the development of the INDIVidually EXPERIEnced QUALity of LTC (INDEXQUAL) framework (Figure 1, Table 1).

INDEXQUAL aims to provide a framework describing the process of experienced quality of LTC by focusing on the care recipient’s experiences with care services and factors occurring prior to, during, and after this experience, within a certain context. The framework presents a process that starts with a personal need and ends after an experience. In the after experience, a differentiation could be made between a variety of care recipient groups, including moving out of 1 particular LTC setting (eg, nursing home) to another type of care setting (eg, home care), remaining in the LTC setting, or passing away. The framework is a global representation that allows for adaptation to a specific LTC setting, timing, and population.

Two principles underlie the development of INDEXQUAL. First, INDEXQUAL assumes that care provision is a form of service delivery and, therefore, a process that consists of a before, during, and after phase.\(^ {17}\) Second, INDEXQUAL places relationship-centered care at the core of care experiences, emphasizing that all relationships within the caring process need to be considered and not solely the care recipients.27,37 It assumes that care experiences are mainly influenced by the interactions throughout the caring process, especially within LTC provision, which is more often focused on care and less on cure.\(^ {28}\)

![Fig. 1. A Framework of Individually Experienced Quality of LTC (INDEXQUAL).](image-url)
Table 1
Overview and Definitions of Individual Components From the INDEXQUAL Framework

<table>
<thead>
<tr>
<th>Concept</th>
<th>Description</th>
<th>Examples of Themes, Indicators, and/or Tools to Assess</th>
</tr>
</thead>
<tbody>
<tr>
<td>Context</td>
<td>Care receiver characteristics and the setting in which care is delivered.18</td>
<td>• Interpersonal environment: description of care recipient (ie, age, sex, ethnicity, health status)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Organizational environment [ie, type of care organization (nursing home, home care, rehabilitation care)]; size, skill mix; available facilities and support organizational systems</td>
</tr>
<tr>
<td>Expected Care Services</td>
<td></td>
<td>• Security – to feel safe physically, psychologically, existentially</td>
</tr>
<tr>
<td>Personal care needs</td>
<td>In the LTC setting, care needs can be placed into Nolan’s senses framework:</td>
<td>• Belonging – to feel part of a valued group, to maintain or form important relationships</td>
</tr>
<tr>
<td></td>
<td>security, continuity, belonging, significance, purpose, and fulfillment.24</td>
<td>• Continuity – to be able to make links between the past, present, and future</td>
</tr>
<tr>
<td>Word of mouth</td>
<td>Personal and sometimes nonpersonal statements made by parties other than the</td>
<td>• Purpose – to enjoy meaningful activity, to have valued goals</td>
</tr>
<tr>
<td></td>
<td>care organization or care receivers themselves. They convey to care receivers what</td>
<td>• Achievement – to reach valued goals to satisfaction of self and/or others</td>
</tr>
<tr>
<td></td>
<td>the service will be like (ie, what they can expect). It is perceived as</td>
<td>• Significance – to feel that you ‘matter’ and are accorded value and status</td>
</tr>
<tr>
<td></td>
<td>unbiased and tends to be quite important in care services because services</td>
<td></td>
</tr>
<tr>
<td></td>
<td>are difficult for care receivers to evaluate prior to purchasing and directly experiencing them.27</td>
<td></td>
</tr>
<tr>
<td>Experienced Care Services</td>
<td>The direct environment influencing the care experience.27</td>
<td></td>
</tr>
<tr>
<td>Care environment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relationship-centered care</td>
<td>A framework that conceptualizes care. It focuses on the influence of the</td>
<td>Observations with for example the Maastricht Observation in Daily Living tool assessing activities, physical environment,</td>
</tr>
<tr>
<td></td>
<td>nature and quality of relationships in the process and outcomes of care</td>
<td>social interaction and emotional well-being25 or Dementia Care Mapping.10</td>
</tr>
<tr>
<td>services</td>
<td>services.28</td>
<td></td>
</tr>
<tr>
<td>Experienced Quality of Care</td>
<td>The care receiver’s assessment of what happened and how it happened.19</td>
<td>Consumer Assessment of Healthcare Providers and Systems survey, includes indicators on ie, food quality, environment,</td>
</tr>
<tr>
<td>Perceived care services</td>
<td>It is the impact of the process of the care on the care receiver’s experience. This can include relational aspects,</td>
<td>safety, pain management, staff skills, and choice.13</td>
</tr>
<tr>
<td></td>
<td>assessing the experience of the relationships during treatment (ie, feeling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>heard) and functional aspects, assessing more practical issues (ie, available</td>
<td></td>
</tr>
<tr>
<td></td>
<td>facilities).27</td>
<td></td>
</tr>
<tr>
<td>Perceived care outcomes</td>
<td>The care receiver’s view on his or her health status.12</td>
<td>Health status outcomes, such as health-related quality of life and improvement in health status measured by disease-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>specific instruments.</td>
</tr>
<tr>
<td>Satisfaction</td>
<td>The gap between expectations and experiences, seen as an evaluative, affective, or emotional response.15</td>
<td>Net promoter score measures customer experience on a 0–10 scale.16</td>
</tr>
</tbody>
</table>

Expectations (Before)

There are 2 types of expectations: adequate and desired. Adequate expectations are what is likely to happen and what a care recipient considers to be acceptable. Desired expectations are the services a care recipient hopes and desires to receive, in other words, what they feel a service should offer.23 The range between an adequate and desired expectation of LTC services is formed by 3 influences: personal needs, past experiences, and word of mouth, as adopted from the Service Quality (SERVQUAL) model.18 This is the most widely known model in the field of service sciences, describing experienced service quality from the customer’s perspective.18 It recognizes the difference between expected services and perceived services, known as the gap representing customer satisfaction.23,38

Experienced quality of care starts with the occurrence of a personal need. Everyone has basic personal needs, and within relationship-centered care these are defined as the 6 basic senses: security, continuity, belonging, significance, purpose, and fulfillment.22 Underlying any care service, there is a need related to 1 or multiple of these senses. For example, the need to receive competent care can be placed in the sense of security, or the need to form meaningful and interactive relationships can be placed in the sense of belonging. Past experiences are the care recipient’s previous exposures to a care service that are relevant to the current service and can shape predictions and desires.23 They can have a direct impact on what someone expects from a care service. Other people’s past experiences can influence a care recipient’s expectations by word of mouth.18 These are personal and sometimes nonpersonal statements made by
parties other than the organization, such as care recipient reviews, friends and family. They express what the service will be like to care recipients (ie, what they can expect). Word of mouth is perceived as unbiased and has shown to be quite important in care services because services are difficult for consumers to evaluate prior to purchasing and directly experiencing them.\textsuperscript{25}

**Experiences (During)**

Experiences with care services are defined as the sum of interactions across the care process, influencing the care recipient’s perception within the organizational culture.\textsuperscript{26} The care environment influences the care experience, for example, by means of the level of shared decision-making and the physical aspects of the environment, such as a home-like atmosphere, privacy, noise, and cleanliness.\textsuperscript{27,40,41} During the actual experience with a care service in the care environment, interactions within the caring relationships can influence the experience. Caring relationships are defined as “human interactions grounded in caring processes, incorporating physical work (doing), interactions (being with), and relationships (knowing each other).”\textsuperscript{26} They are deemed necessary to provide high quality of care.\textsuperscript{42} How care is delivered and received is dependent on how we define ourselves and others within a network of relationships and social circumstances.\textsuperscript{26} In service sciences, this is portrayed as balanced centricity, implying that value is co-created by all involved stakeholders who each deserve satisfaction of their needs and wants.\textsuperscript{42} Relationships are the medium of care that should be based upon mutual respect, equity, and shared understanding.\textsuperscript{43} Family is considered an important player in LTC, as their involvement can influence the care recipient’s experiences by means of, for example choice, community connection, and quality of life.\textsuperscript{44} Figure 1 presents the relationships in a triangle consisting of the care recipient, professional caregivers, and informal caregivers. This network of relationships can differ for each individual care recipient; however, the simplified visualization in the framework portrays the emphasis on the relationships between the involved players. Players in the caring relationships can each have a view on the experienced quality of care process from the care recipient’s perspective because they are part of the experience. For example, a family member also has certain expectations and experiences with the care provided to their loved one, and this can influence the experienced quality of care results.

**Experienced Quality of LTC (After)**

After the experience, the care recipient makes a conscious or unconscious assessment by comparing his or her expectations with the actual experience, taking into consideration the gap between the experience and the reported experience.\textsuperscript{45} This leads to an evaluation of 3 aspects: perceived care services, perceived care outcomes, and satisfaction.\textsuperscript{31,32} Within perceived care services, the process of the experience is evaluated by answering questions such as what happened and how it happened.\textsuperscript{31} This can include relational aspects, assessing the experience of the care relationships (ie, feeling heard) and functional aspects, and assessing more practical issues (ie, allocated caregiving time).\textsuperscript{32} Within perceived care outcomes, the care recipient’s health status is assessed, such as (health-related) quality of life, levels of pain, and other changes in the care recipient’s health outcomes.\textsuperscript{32} Within satisfaction, the care recipient attaches an emotional response to the experience, expressing how the experience made him or her feel.\textsuperscript{31} It is considered to be the gap between expectations and experiences, seen as an evaluative, affective, or emotional response.\textsuperscript{25} Eventually, the sum of these evaluations contributes to the assessment of the overall experienced quality of LTC.

**Context**

Considering the framework presents the process of experiences from an individual care recipient’s perspective, it needs to be taken into account that each individual within the care process has his or her own personal characteristics, such as age, sex, education, ethnicity, and social class.\textsuperscript{46,47} The framework has been developed within the LTC setting for older people.\textsuperscript{1} The individual characteristics and the LTC setting for older people in which care is delivered (ie, at home or in a nursing home) shape the context of an experience.\textsuperscript{29,21}

**Example**

INDEXQUAL can be adapted to different settings, timings, and populations. For example, the framework can be adapted to people with dementia living in nursing homes for the remainder of their lives. In this case, the framework can focus on assessing the entire experience of living in the nursing home for a longer period of time. The method to assess the experience might be by means of observations, as care recipients cannot always express themselves anymore.\textsuperscript{29,30} In addition, the position of the family in the triangle may gain more importance in this setting to support and voice the needs of the care recipient.

**Implications for Practice, Policy, and/or Research**

INDEXQUAL presents a framework of a care recipient’s journey, including the expectations, experiences, and assessment of quality of LTC in terms of perceived care services, care outcomes, and satisfaction. INDEXQUAL has been based on theory and the next step is to validate it in practice. The framework was developed for the LTC setting for older people, however, it may be applicable for other LTC settings as well. Currently, there is an occurring trend focused on the importance of relationships within care delivery.\textsuperscript{47} INDEXQUAL can provide insight into the care process as experienced within these relationships (care recipient, professional caregiver, and informal caregiver). It can be used as a framework to select existing methods or develop a new method to assess how LTC provision is experienced.

The INDEXQUAL framework differs from existing frameworks and models because it incorporates knowledge from healthcare literature and service sciences literature from the care recipient’s perspective. It is a dynamic framework presenting the process of experienced quality of care, highlighting the importance of relationships within this experience. The framework presents an overarching representation allowing flexibility to adapt to specific LTC settings, timing, and population. In addition, INDEXQUAL addresses quality of LTC not only from the physical, but also from the social and emotional, aspects of care. This is in line with the growing focus on assessing more than standardized quality indicators and assessing the care recipient’s experiences as well. Perceived care processes assess what happened and how it happened, perceived care outcomes assess the care recipient’s self-reported health status, and satisfaction assesses how the experience made the care recipient feel.\textsuperscript{33,31,48} The sum of these results provides a more holistic view on how care provision is experienced. INDEXQUAL can serve as a framework for quality monitoring, improvement, and transparency.

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also thank all experts that have contributed to the development and critical review of the INDEXQUAL framework.

References

Appendix 1. Additional Literature Used in Model Development but Not Cited

This special article presents the final selection of core publications that were used to compose the INDEXQUAL framework. Behind the development of this framework lies a broad literature review of experienced quality of care from the care recipient’s perspective. There is a secondary list of articles that contributed to the insights in this special article, but were not the primary contributors to the final framework. They were included to gain a more comprehensive understanding of the topic. Reasons for exclusion were that these articles (1) did not focus on the care receiver’s perspective; (2) focused on quality of life instead of quality of care; (3) presented specific outcomes or themes related to a specific setting or construct; (4) presented an adaptation of an existing model; or (5) did not present a model, framework or theory of quality of care or care experiences.

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