Compassion Fatigue in Clinical Nurses: An Evolutionary Concept Analysis

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Abstract

Introduction: Despite the agreement regarding the significance of the concept of compassion fatigue (CF) in nursing, it has been unrecognized and there is no clear definition of CF in the context of nursing. The aim of this study was to inductively develop or formulate a clear and uniformed definition of compassion fatigue in the context of nursing.

Methods: This study was conducted using the Rodger's concept analysis, literature-based method and thematic analysis. Steps of the Rodger's concept analysis encompass identifying the concept and associated definition, attributes, antecedents, consequences, surrogate terms, related concepts, and a model case exemplar. A literature search was performed from 1992 to 2016. Finally, 45 references were selected. A thematic analysis was conducted for data analysis.

Results: In this analysis, after defining attributes such as cumulative and progressive process, individualized, self-absorption, and comprehensive, CF can be defined in this way: "CF is a cumulative, progressive, and individualized process that is caused by prolonged exposure to patients in pain, suffering and distress and threatens integrity of nurses' life. Nurses with CF lose their caring or nurturing ability and then they will not able to care own selves and others (patients, organization and members of the family)."

Conclusions: This analysis demonstrated that the concept of CF consists of excessive empathy, symptomatology of secondary traumatic stress, problematic work environment of burnout and coping mechanism deficit.

INTRODUCTION

Nurses must present caring behaviors such as empathy, respect and warmth for patients to express feeling cared for. The impact of caring for patients who are in pain, suffering, and traumatization on a daily basis can take a toll on nurses and put them at risk of a compassion fatigue (CF). Nurses suffering from CF may experience a noticeable change in work performance, a change in personality, a decrease in physical and emotional health [1] and are not able to provide quality patient care, consequently put patients at risk [2]. Helper professionals such as policeman, fire fighters, paramedics, law enforcement personnel, lawyers, psychiatric, social workers, and health care professionals, who help individual in distress, also have been recognized to be at risk for developing CF [3-5]. Compassion fatigue was found to be present in various nursing contexts [2] such as oncology [6], emergency [7], pediatric nurses [8] intensive care unit [9], and hospice nurses [10]. Therefore, attention to this phenomenon is essential. The effects of CF can encompass tiredness, fear, anxiety, insomnia, loss of strength, weariness, reduced output, diminished performance, loss of endurance, lessened enthusiasm, desensitization, irritability,
lack of spiritual awareness, impaired ability to concentrate, disordered thinking, loss of hope, exhaustion, loss of empathy and depersonalization [4, 11-14]. In fact, despite the agreement regarding the significance of the phenomenon of CF and despite widespread evidence about the concept of CF in nursing, this concept has been unrecognized, and has not been differentiated adequately from related terms [15], which has created confusion regarding its definition [16, 17]. Therefore, conceptual clarification of CF is the absolute necessity. The development of a clear and integral definition may apply as one point of movement in comprehending more about CF and help to the development of a theory of CF within nursing practice [18]. If the concept continued to be confounded and defined weakly, prevention and management of compassion fatigue would be more difficult and impossible [19, 20].

Objectives
The aim of this study was to inductively develop or formulate a clear and uniformed definition of CF in the context of nursing.

METHODS
An evolutionary concept analysis was selected to identify detailed process of clarifying the current use of a concept. This approach is systematic with rigorous procedures and provides a solid base for further research and nursing practice [21]. The evolutionary method of concept development specifically focuses concepts as being dynamic and changing over time and context. Also, this method confirms the existence of vast interrelationships among phenomena and associated concepts. Steps of the Rodger’s concept analysis encompass identifying the concept and associated definition, attributes, antecedents, consequences, surrogate terms, related concepts, and a model case exemplar [21].

Searches for Data and Selection Process
A literature search was performed to determine suitable references for developing the concept analysis [21]. The samples were selected from English and Persian language literature published in nursing during 1992-2016. Nursing constitutes the focus of the study because of our primary interest in conceptualization of CF in healthcare professionals, especially nursing. The MeSH database was used to find keywords such as CF, secondary traumatic stress (STS) and nurses. The large volume of literature was known under the major headings of CF and secondary traumatic stress. Therefore, there was no need to develop the search using other keywords. All references were organized with EndNote X7.5. initial search uncovered 2782(408 references in PubMed, 1077 references in Science Direct, 1296 references in Wiley online library and 1 reference in Iranmedex). After removal of duplicate articles, 1180 articles remained. Subsequently, the references only published as an abstract (n = 40) or non-English (n = 35) were removed. At the first round, the references were screened by the title and abstract for relevancy. Any literature about CF in other disciplines was excluded. Finally, 180 articles remained. Based on the Rodger’s approach for the evolutionary concept analysis, 30 items or 20% of available literature was the minimum needed to facilitate a valid analysis [21]. Then, 36 references were randomly selected and for further validity, 45 references were selected. Lastly, two of the authors independently reviewed all abstracts.

Data Collection
Each reference was read to identify the general theme. This stage focused on immersion in the literatures regarding the uses of the CF. Expression, and themes were written on coding sheets created for data organization. A coding sheet with heading “definitions” was developed to document relevant data about this question “what are the attributes of the CF?” The common characteristics in definitions were identified. Similarly such coding forms were used for other aspects such as antecedents, consequences, relevant concepts, and surrogate terms. Analysis was delayed until all sources were retrieved and organized. However, minimal analysis was conducted for better organization and formal analysis.

Data Analysis
Analysis focused on the nursing literature during 1992-2016 to reveal an operational definition of the CF. An inductive, and thematic manner similar to content analysis were conducted related to each major category of data [21]. It means that all data were analyzed under the heading “Definition” to identify common attribute and contextual data (e.g., antecedent and consequential occurrences, surrogate term, and related terms) to identify other aspects of CF. Data were organized and reorganized until a consistent series of categories emerged for each aspect of CF and then word labels were selected for each aspect of the concept to provide clear definition[17)]. Due to the fact that the focus of this analysis was to explore the CF in clinical nursing, the sample was purposively selected from a nursing-specific data base, and thus interdisciplinary comparisons were not conducted.

Data Trustworthiness
The trustworthiness of this concept analysis was enhanced by the use of the techniques of qualitative studies [22]. To guarantee the credibility of the finding, large sample size was selected and a reflective journal was kept to record methodological decisions, thoughts, and perceptions, which emerged during data collection and analysis. Also, trustworthiness or rigor of the study was supported by involvement of two researchers to decrease bias in the organization of the data.

RESULTS
Historically, the concept of CF has evolved. During evolution of concept, it has been identified as a multidimensional concept with multifaceted definitions [23]. Compassion fatigue has been studied primarily in other professions than nursing [11, 24]. In recent years, it has received increased attention related to the realm of stress in caregivers, especially nurses [11]. However, a lot of literatures were commonly discussed regarding incidences, symptoms and interventions for prevention and management of CF, but the operational definition of CF has not been proved by authors and a consistent definition of CF has not presented in the literature [2, 16]. The term CF first is appeared in literature in the early 1990s by Joinson and American literature [25], while she was examining the burnout in nurses in an emergency department and noticed that nurses seemed to have lost their “ability to nurture” in result of repeated exposure to suffering patients during work. Joinson described CF as a “unique form of burnout” [5, 19, 26, 27]. The
compassion fatigue never formally has been defined by Joinson, and then developed by Figley. Figley is a prominent researcher and has the most researches on the conceptualization of CF. He has expanded the concept of CF by creating a model of the CF. Many researchers have been used some terms such as secondary traumatic stress (STS), secondary traumatic stress disorder (STSD), vicarious traumatization, and burnout interchangeably in research and clinical assessments, because they believed that the these terms are similar or identical [20, 28-32].

Figley adopted CF as a more “user-friendly term” for STS [30, 33]. Although CF has interchangeably been referred to STS by figley and many researchers, the synonymous use of CF and STS seems somewhat antithetical to original impression of Joinson’s “about CF [34] because Figley’s research is based on the experiences of psychotherapist but does not include nurse participants. Coetzee and Clopper stated that STS is not even synonymous with CF [19]. Jenkins and Baird in their analysis stated that the content validity of STS and CF is really different [4] and may be phenomenologically different. White identified a distinction between STS and CF. This difference may be due to the role of empathy and desire to help someone who is suffering and traumatized in CF [32], but Figley believed that empathy had a very important role in the conceptualization of CF and STS [32]. What becomes more clear and evident is that the terms CF, STS, and BO have similar physical and emotional outcomes and there are the mutual relationships between CF and various concepts, for example, there is a positive relationship between CF and STS and between CF and BO in some studies, suggesting an overlaps in one or more components of these concepts [34]. Different opinions exist regarding the relationships among related terms. Some researchers stated, CF may be a precursor to STS and some believed burnout may be a precursor to CF [34-36]. Also, Meadors suggested that STS and BO are as independent variables that can contribute to developing CF, and STS is a stronger predictor of CF than burnout [32].

Figley defined CF as comprised of two main elements: burnout and STS [15, 30]. The burnout entails issues such as exhaustion, depression, and frustration. The STS is the negative feeling accompanying with avoidance and arousal symptoms, intrusion, and hyper-vigilance [26, 30, 32].

Terminology of Compassion Fatigue

“Compassion fatigue” is divided into its root words: “compassion” and “fatigue”. The word of “compassion” is a feeling of empathy that arises resulting of witnessing the suffering of others and gives rise to an active tendency to help and decrease another’s suffering [19]. Fatigue is an overwhelming sense of exhaustion and reduced capacity for physical and psychological work at the normal level [4]. Based on online Cambridge Dictionary, compassion fatigue was defined as follows: the situation in which people stop thinking or worrying about a problem that is affecting a lot of people and stop giving money to them because the problem has continued for too long (http://dictionary.cambridge.org/dictionary/english/compassion-fatigue).

**Figure 1: A model Case of Compassion Fatigue in Nurses**
ATTRIBUTES
Attributes, are the essential characteristics that help to distinguish the concept from other related concepts and clarify its meaning [18]. In spite of various definitions for CF, main categories, which were introduced in literatures as attributes included:

EMPATHY
Cumulative and progressive process

THERAPEUTIC RELATIONSHIP
Emotional burden

Empathy
Empathy is one of the important attributes of CF and is human inherent [19, 30, 37]. Figley showed that nurses are at risk for CF because of their compassion and empathy [29, 33]. This attribute is double-edged sword because not only is a core value for nurses in their work but also it can be caused vulnerability among nurses at the same time [38]. It means that empathic nurses indirectly experience and absorb the trauma of their patients, and their efforts to empathize often lead to increased self-sacrifice and inadequate self-care [26, 33].

CUMULATIVE AND PROGRESSIVE PROCESS
Compassion fatigue is defined as a cumulative and progressive process and develops over time [25, 32]. It is a natural consequence and final result of continuous and prolonged exposure of caring for patients who are in pain and suffering such as patients with cancer, patients at the end of life, patient with incurable diseases, infant or young age of patients [12, 23, 30, 40, 42, 43], because prolonged exposure to suffering patients creates a cumulative effect on nurses. When nurse directed his/her energy towards patients in daily basis and do not see positive outcomes of patients, CF developed [32].

EMOTIONAL BURDEN
Because of a caring nature in nursing, the nurses constantly share their compassion with suffering and in pain patients on a daily basis. Eventually, this may result in emotional burden that its handling is difficult [3, 30, 39, 44, 45].

ANTECEDENTS
Antecedents have been entailed as events that must occur prior to the occurrence of the concept [18]. The following are the main categories that in literatures were introduced as antecedents:

INDIVIDUAL CHARACTERISTICS
Stress
Ineffective coping strategies

Individual Characteristics
Theorists have stated that the nurses who have sacrifice behaviors, capacity for empathy, resiliency, and a higher level of personal stress are more vulnerable to CF [10, 13, 30, 39, 41].

Stress
There are multiple professional and personal stressors in nursing. Professional stressors such as patient-related stress (the stress resulting from helping a traumatized or suffering patients, stressful situations for patients, death of patients) [45], work related stress (inadequate Financial and human resources, equipment unavailability, staff shortages, increased patient assignments, workload, working extra shifts, paperwork, lack of appropriate nursing skills and knowledge, inadequate preparation, lack of management support, conflict with doctors and other nurses, closed environment, witnessing patients’ distress and being unable to help them, exposure to multiple patients’ needs, confused policy and procedures, faulty organizational culture) [3, 26, 44, 46] and personal stress (self-conflict and feeling a sense of uncertainty [45, 46], commitment to helping others, and meeting the overwhelming needs of patients) [26] have been associated with decreased personal productivity, diminished work engagement, high turnover, absenteeism, medical errors, decreased morale, and nurses’ decreased physical and emotional health; all of these factors can decrease the quality of care [47] and nurses who cannot manage their stress are at risk to develop CF [41].

Ineffective Coping Strategies
Coping strategies enable nurses for resolution and management of multiple stressors and afford protection for them, thus coping strategies deficit puts nurses at risk of CF [3, 39, 48].

Consequences
Consequences have been entailed as events that occur after the presence of the concept [18]. Based on the literatures, nurses with CF are at risk for development of various symptoms [23]. Two main categories of consequences of CF were depicted as:

Integrity threat of the nurse
nurse’ inability in self-care and another care

Integrity Threat of the Nurses
Some authors have defined CF as “a state of exhaustion and dysfunction, physiologically, behaviorally, emotionally, spiritually and socially” [5, 49]. Some of the symptoms of CF include physical symptoms (e.g., reduced general health, poor immunity, chronic fatigue, headaches, insomnia, various pain, muscle tension, digestive complaints, lack of energy, and loss of power), cognitive
Primary Traumatic Stress

Nurse's Inability in Self-care and another Care

One of the most important adverse consequences of CF was nurse's inability for self-care and another care. It means that when nurses are not able to help to rescue or save patients with malignant cancer, patients at the end of life, and those with incurable disease they may feel helpless, powerless, uncertainty and hopelessness in the caregiving situation. Hopelessness was also associated with higher levels of anxiety, depression and results in guilt and distress in nurses, which had induced inability for self-care and other care especially their family members and other patients [3, 23, 24, 42, 51].

Surrogate Terms

Surrogate terms are words that state a concept's ideas with other words that the researcher has used in his/her study. Surrogate terms of CF are “provider fatigue” [45], “emotional contagion” [13, 29, 30], “helper syndrome” [34], “helper stress” [30].

Related Terms

Related terms are words that have something in common with the concept but do not have the same characteristics or features [18]. These terms have been described as the harmful psychological effects on care providers [15, 30, 52]. Some authors pointed out that the term of CF is problematic and is often interchanged with variety of related terms such as STS, burnout, vicarious traumatization, counter-transference [15, 20, 24, 30, 33]. Van Mol mentioned the related terms as emotional distress, because of the same causes, intervention, and outcomes [34].

Secondary Traumatic Stress

A term that is often used interchangeably with CF is STS [34, 52]. Based on literature, STS has commonalities with CF and has been defined as the distress and emotional disruption associated with an exposure to traumatized individuals. Meadors et al. speculate that STS does not compose empathy and desire to help as parts of its criteria and not built on a cumulative effect [46]. The secondary traumatic stress may be nearly identical to posttraumatic stress disorder (PTSD) [43], with this difference that STS is indirect traumatization and PTSD is direct traumatization. Also, STS is defined as the outcome of knowing about a traumatizing event or incidents experienced by others and the subsequent stress resulting from helping or wanting to help. The symptoms associated with STS may also be manifested in an individual with CF [29, 33].

Burnout

Burnout is associated with feelings of hopelessness, frustration and apathy. It makes an inability to perform one's job responsibilities effectively [53]. Burnout is associated with a problematic culture in workplace such as work overload, long hours, intense work environments, paperwork, inadequate management support, etc. [46]. Compassion fatigue and burnout are closely related and symptoms of them are similar [30, 39] but some researcher considered CF and burnout are related but separate concepts. However, some studies showed that CF is different from burnout, because underlying mechanisms are very different [34, 41]. The CF creates from a rescue-caregiving response with empathy but burnout from assertiveness-goal attainment response and not typically related to empathy [11, 41, 53]. Burnout is a gradual process and progressively worsens and results from imbalance between their expected and outcomes in the workplace [30]. It caused by repeated exposure to chronic stressors and led to low levels of motivation and job satisfaction. Aycock and Boyle propose that burnout is the outdated term and CF has replaced it, because burnout does not really draw the results of the longitudinal workplace consequences of sorrow and desperation on nurses [17].

Vicarious Traumatization

Vicarious traumatization (VT) is permanent and unconscious transformation cognitive frame [30, 54]. Care providers exhibit physiological symptoms such as disturbances in self-identity, world view, spirituality and cognitive frame (belief systems about oneself, others, and the world around him/her) about one's self and others regarding five major psychological needs: safety, trust, esteem, control, and intimacy [32, 43]. Researchers suggested that empathetic engagement with trauma survivors is risk factor for VT. Most researchers pointed out that VT occurs most often among mental health providers and no research has been conducted with other healthcare providers. A case model of CF is presented in Table 1 for more clarification and differentiating the concept from related terms.

Definition of Compassion Fatigue after Thematic Analysis of Literature

In this analysis, after defining attributes such as cumulative and progressive process, individualized, self-absorption, and comprehensive, CF can be defined in this way: "CF is a cumulative, progressive, and individualized process that is caused by prolong exposure to patients in pain, suffering and distress and threatens integrity of nurses' life. Nurses with CF lose their caring or nurturing ability and then they will not able to care own selves and others (patients, organization and members of the family)".

DISCUSSION

In spite of various understandings about the nature of CF and interchangeable use of related terms, systematic approach of the Rodger's concept analysis can help us in understanding the meaning, recognition, and clarification of relevant as-
pects, antecedents, and consequences of CF. Current findings showed that the synonymous use of CF and STS seems somewhat far removed, even antithetical to original impression of Joinson about CF [34]. Joinson (1992) was a nurse and when she was studying burnout in emergency department, she detected that nurses seemed to have lost their "ability to nurture" as a result of prolonged exposure to patients pain and suffering during work. Then, Figley selected the term ‘CF’ as a ‘more user-friendly term for secondary trauma’ and vicarious traumatization, but the findings showed that these concepts have distinctions in terms of theoretical basis and symptoms, interchangeable use of them seems illogical and wrong perception. Also, Sheppard (2015) claimed that the term “CF” was apparent as stigmatizing and negative and the nurses were concerned about losing their job by accepting this label. Thus, consistent with Sheppard (2015), renaming CF is necessary to better represent this phenomenon in nurses and he suggested that “provider saturation” or “care distress” may be alternative terms of CF among nurses. The majority of authors stated that CF arises due to caring (they used the terms caring and compassion synonymously) and CF is often defined as cost of caring. This hypothesis expressed that “engagement in caring creates risk for the nurses and they are at risk for emotional exhaustion from their work [55].

In this analysis, after defining attributes such as cumulative and progressive process, individualized, self-absorption, and comprehensive, CF was defined. This definition is consistent with original impression of Joinson’s “loss of the nurturing” about CF and also affirms Ledoux (2015) beliefs about CF as “CF is not “cost of caring” but multiple factors such as patient-related stress, work-related stress, and personal stress put nurses at risk of CF. Based on this concept analysis, number of questions is identified for future research. The results showed the additional development of the concept is needed. These findings not only offer further clarity but also facilitate productive inquiry. Derived definition in this concept analysis may help policy makers, managers and nurses to identify CF and prevent from complicated and negative consequences of it. The results of CF are devastating and adversely affecting the nurse, patient, organization and society, thus changes in governmental, organizational and individual level is are needed to deal with significant challenges to nursing practice. Nurses’ awareness of contributing factors (antecedents) may help prevent negative effects of CF on the nurse’s personal and professional life and decrease the personal and professional costs of CF.

The consequences of CF identified through this analysis provide direction for additional research. These consequences offer a basis for reconceptualization and evaluation of CF outcomes. Also, nurses’ awareness of harmful outcomes (consequences) of CF may cause nurses develop and apply appropriate and timely interventions. Considering high stressors in nursing professions, developing interventions to build individual resilience within the workforce, providing supportive and friendly work environments and offering preventive and proactive support services for nurses is essential. These interventions enable nurses to resolve multiple stressors and work in the challenging environments of the recent century. According to the interchangeable usage of CF and related terms, conceptual clarification of related terms would be a major step in enhancing knowledge and promotion differentiation of these concepts. Also, development of an appropriate instrument for CF and each of these terms should be conducted for future research. Thus, a next step in my research is to identify and explore CF among nurses in Iranian religious and cultural context using an interview-based research. In fact, the current study could be the first step of the concept development procedure presented by Schwartz-Barcott and Kim (hybrid concept analysis). This approach combines a literature-based analysis and interview-based research (field work).

Current findings show that synonymous and interchangeable use of CF and STS seems illogical and wrong and renaming CF is necessary to better representation of this phenomenon in nurses. This analysis shows that the concept of CF consists of excessive empathy, symptomatology of STS, problematic work environment of burnout and coping mechanism deficit.

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CONFLICTS OF INTEREST

The authors declare that they have no conflicts of interest.

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ETHICAL CONSIDERATIONS

This study was conducted as a part of thesis with the ethical code: SBMU2.REC.1394.46, approved by Shahid Beheshti University of Medical Sciences. All of the participants signed written informed consent before participation, and allowed the researcher to record the interviews.

AUTHOR CONTRIBUTIONS

Study concept, design and data acquisition: Mahdieh Sabery; data analysis and interpretation, Manuscript drafting and critical revision of the manuscript for important intellectual content: Mahdieh Sabery, Mansoureh Zagheri tafreshi, Meimanat Hosseini, Jamileh Mohtashami, Abbas Ebadi.

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