Self-Efficacy in a Nursing Context

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Abstract

Self-efficacy is one of the most ubiquitous term found in social, psychological, counseling, education, clinical and health literatures. The purpose of this chapter is to describe and evaluate self-efficacy theory and the studies most relevant to the nursing context. This chapter provides an overview of the development of self-efficacy theory, its five components and the role of self-efficacy in promoting emotional and behavioural changes in a person's life with health problems. This chapter also discusses the role of self-efficacy in nursing interventions by providing examples of studies conducted in health promotion in patients and academic performance of nursing students.

Keywords

Self-efficacy · Nursing · Health promotion

12.1 Introduction

Albert Bandura derived the concept of self-efficacy from his psychological research [1]. Based on Bandura's self-efficacy theory [2] which was later renamed social cognitive theory, self-efficacy was defined as the individual's perception of one's ability to perform particular behaviours through four processes [3] including cognitive, motivational, affective and selection processes. The stronger their cognitive perception of self-efficacy, the higher they set their goals and commitment to achieve these goals [4]. Through cognitive comparisons of one's own standard and knowledge of their performance level, people will choose what challenges they have to meet and how much effort is needed to undertake or overcome those challenges. Motivation based on goals leads to perseverance to accomplish their goals. Perceived self-efficacy determines their level of motivation [5]. People's affective processes influence how they control and manage threats such as stress and depression in life and thus a strong source of incentive motivation. It has been reported that affective processes have dual motivating roles. The more self-satisfaction people have, the more motivated they are in accomplishing their goals. On the other hand, the more self-dissatisfied people are, the more heightened efforts they will do to accomplish their set goals [6]. Thus, in social cognitive theory, Bandura [3] believes that self-

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efficacy plays a major role in self-regulation in appraising and exercising control over potential threats. Through the selection process, people can select beneficial social environments and exercise control over them as they can judge their capability of handling challenging activities [7].

12.2 Self-Efficacy Theory and Other Psychological Theories

Self-efficacy theory has been compared to other theoretical models mostly among psychological theories on explaining human behaviour so as to place self-efficacy in a larger context. Self-efficacy relates to how a person perceives his or her ability to feel, think, motivate and act upon to change particular behaviour. The person processes, weighs and integrates diverse sources of information concerning his or her capability and integrates choice behaviour and effort expenditure accordingly [1]. Expectations concerning mastery and efficacy their ability to perform such activities are related to how they see themselves in terms of self-concept and self-esteem. Self-concept is a term used to describe the person's attitudes and beliefs about the self and what he or she is capable of doing well. On the other hand, self-esteem is one's evaluation of their beliefs and assessment of their value as a person. If a person's assessment of their self-concept and self-esteem is high, the more they will be able or competent enough to change their behaviour.

Self-efficacy is also compared to *locus of control* which refers to a person's belief that one is capable of controlling outcomes through one's own behaviour [8]. People's locus of control can either be affected by external or internal forces. Self-efficacy focuses on the person's belief in the ability to perform a specific task, and having a feeling of success and accomplishment is a form of reinforcement to effect behavioural change and an example of internal locus of control [9, 10]. Bandura [7, 11] argued that locus of control is a kind of outcome expectancy as it is concerned about whether a person's behaviour can control outcomes. Self-efficacy expectancy refers to per-

ceived subjective judgement on the effective execution of a course of action.

Self-efficacy theory has also been linked to intrinsic motivation theory [12]. Bandura [7, 11] purported that people must serve as agents of their own motivation and action. Self-motivation relies on goal setting and evaluation of one's own behaviour which operate through internal comparison processes [13]. Motivation predicts performance outcomes as it is concerned with what task people want or need to accomplish and successfully achieving it to have incentive value that is satisfying and pleasurable [9].

12.3 Sources of Self-Efficacy

Bandura [14] emphasised the four major sources of self-efficacy. First is through mastery experiences in overcoming obstacles. Mastery experiences build coping skills and exercise control over potential threats. Second is through various experiences provided by social models and seeing people similar to themselves who are successfully performing similar behaviours. These experiences are considered as the most influencing source of efficacy. Third is their own belief that they have what it takes to succeed. Fourth is altering their negative emotions and misinterpreting their physiological states. Physiological state can affect the level of self-efficacy when they interpret their somatic symptoms based on aversive arousal [7, 15]. People who believe they can manage these threats tend to be less disturbed by them [16].

12.4 Concept Analyses of Self-Efficacy

Concept development is an important process to generate nursing knowledge which ultimately be used to build evidence-based practice [10]. Self-efficacy has been identified as a middle-range theory, that is recognised as a predictor of health behaviour change and health maintenance [17]. There are many publications in nursing literature regarding the broad concept of

self-efficacy. In general, and as used across disciplines, the concept of self-efficacy has been described as self-regulation, self-care, self-monitoring, self-management and self-monitoring [18]. The concept of self-efficacy has been analysed extensively in different nursing and education disciplines to provide an in-depth understanding of the theory's applicability. A number of methods such as Rodgers, Walker and Avant [19] and Wilson [20] have been used to conduct concept analysis of self-efficacy in terms of its defining attributes, antecedents and references. Below are some of the examples of concept analyses in nursing.

Liu [21] analysed the concept of self-efficacy and its relationship with self-management among elderly patients with type 2 diabetes in China using Walker's and Avant [19] method. The analysis found that the defining attributes of self-efficacy among this population were "cognitive recognition of requisite specific techniques and skills, perceived expectations of outcomes of self-management, sufficient confidence in their ability to perform the self-management, and sustained efforts in diabetes management" (p. 230). Liu [21] found that the consequences of self-efficacy among the Chinese elderly with type 2 diabetes were adherence to the prescribed regimen and successful management of the disease which were influenced by having relevant knowledge about diabetes, family support and learning from other similar cases with diabetes.

White et al. [22] analysed the concept of self-efficacy in relation to symptom management in patients with cancer. If cancer patients are not able to manage their symptom, the outcomes would be increased symptom distress, poor prognosis, decreased quality of life (QoL) and survival [23]. White et al. [22] also used Walker's and Avant [19] concept analysis method to determine the antecedents, defining attributes and consequences. For the patients with cancer, the attributes of self-efficacy are cognitive, affective processes, motivation, confidence, competence and awareness of how they perceive and evaluate the symptoms. Symptom awareness and management decisions are affected by the patients' emotions and distress. Motivation, confidence and

competence must all be present for symptom management. White et al. [22] reported that the consequences of having low self-efficacy in patients with cancer leads to increased distress, depression and anxiety, interference with treatment and potential for untreated malignancies. As self-efficacy for managing cancer symptoms is influenced positively or negatively, utilising individual care plans based on the attributes, antecedents and consequences of self-efficacy concept among these patients is needed.

Sims and Skarbek [24] conducted concept analysis of self-efficacy to examine if the levels of parental self-efficacy are correlated with nursing care delivery and developmental outcomes for parents and their infants. As with White et al. [22], confidence (the ability to trust oneself) and competence (the ability to perform in a given situation) emerged as the most prominent defining attributes of parental self-efficacy. Previous experiences with infants and observational learning were found to be antecedents of parental self-efficacy, and the consequences included "parental satisfaction in parenting role, parental well-being, positive parenting skills and beneficial health outcomes for children" (p. 11). They recommended further research to survey objective parents' level of confidence with parenting and level of comfort in their role.

Using Rogers' [25] concept analysis method, Voskuil and Robbins [26] examined the concept of youth physical activity self-efficacy due to the decline in physical activity from childhood to adolescents. They defined physical activity as "complex, multi-dimensional behaviour that involves bodily movement produced by the contraction of skeletal muscle with resultant increases in physiological attributes, including energy expenditure above the basal metabolic rate and physical fitness" (p. 2004). They found that youth self-efficacy involves self-appraisal process in their belief and action about their capability for physical activity. The antecedents include prior and current physical activity experiences, modelling of physical activity by other youths and strong social support networks. There are of course positive and negative consequences of physical activity self-efficacy in youth. For

example, physiological state in children with cardiac defect can lower self-efficacy while mastery and satisfactory experiences from participating in sport result in higher self-efficacy. The authors suggested that examination of the development of physical activity self-efficacy is needed as well as developing theory-based interventions designed to increase the sources of self-efficacy and physical activity self-efficacy to promote physical activity among youth.

Self-efficacy is also a concept used in nursing education to bridge the theory–practice gap [27], acquisition of clinical skills, critical thinking and overall academic success [28, 29]. Robb [30] conducted a concept analysis of self-efficacy to identify behaviours needed for students’ goal attainment. It was noted that clinical simulations, cooperative learning and personalised classroom structure influence students’ level of self-efficacy. Students utilised Bandura’s [2] concept of vicarious experiences by relying on theory learned from the classroom, clinical experiences and by observing other nurses and their teachers perform certain procedures successfully. Verbal persuasion from teachers is often the sources of self-efficacy in nursing education. Robb [30] found that students’ low level of self-efficacy requires emotional and academic support and suggested that nurse educators should be aware of the strategies used by millennial students to gain information and how they provide feedback about students’ performance.

12.5 Self-Efficacy in Nursing Research

Self-efficacy theory has been receiving much attention as a predictor of behavioural change and self-care management in health-related and educational research. This may be partially attributed to the shift in the health care paradigm from a disease-centred (pathogenic) to a health-centred (salutogenic) orientation. The salutogenic orientation emphasises personal well-being and an ideal state of health as the ultimate goals and works towards achieving these, as opposed to the pathogenic approach, which is primarily based

on identifying problems or diseases and only attempting to solve them [31, 32]. One of the major concepts of the salutogenic theory is the sense of coherence, which refers to an individual’s ability to adopt existing and potential resources to counter stress and promote health. It is measured based on one’s perceived value of the outcome of the behaviour (meaningfulness), one’s belief that the behaviour will actually lead to that outcome (comprehensibility), and one’s capability of successfully performing the behaviour (manageability), of which Antonovsky [32] drew analogous comparison to the three conditions for self-efficacious behaviour: self-efficacy beliefs, behavioural efficacy beliefs and the value of anticipated outcomes [33]. The salutogenic approach has much in common with Bandura’s self-efficacy theory [1] that highlighted perceived self-efficacy’s crucial influence on choice of behavioural settings. Antonovsky [32] drew reference to it stating how an individual with a strong sense of coherence would more likely choose to enter situations without evaluating it as stressful, or in stressful situations, would appraise a stressor as benign. Under the salutogenic umbrella, self-efficacy is one of the key components that drive health-promoting practices, behaviour and self-care management [34–37]. In a recent study, self-efficacy is found to be positively related to sense of coherence, with this association being the strongest among people with low sense of coherence [38]. Additionally, self-efficacy was found to have either a significant direct effect on behaviours [39–41] or it becomes a mediator between other psychological factors and health behaviour [42, 43].

An electronic search was conducted on four databases (PsycInfo, PubMed, Embase and Cinahl) for English language articles that were published from each database’s inception up to December 2019. Keywords used revolved around the concept of self-efficacy in nursing and health care, such as “self-efficacy”, “chronic disease”, “nursing education”, and “patients”. The search generated a repertoire of studies, which primarily involved patients with chronic illnesses, parents during the perinatal period, nursing or medical students, and the youth or elderly population.

12.5.1 Use of Self-Efficacy in Health Promotion Among Patients with Chronic Illness

For patients with chronic medical conditions (e.g. sickle cell disease, asthma, cardiovascular disease (CVD), inflammatory bowel disease, cancer), higher levels of self-efficacy to manage their own chronic conditions are related to higher health-related QoL [44–48], reduced perceived stress [49–51], lesser anxiety and depressive symptoms [47, 48, 52] and lower symptom severity [48, 53] and also predict symptom resolution [49]. Similar results were found in mental illness studies examining unipolar and bipolar disorders, where higher self-efficacy was positively related to mental and physical health-related QoL [54, 55]. Conversely, a study on multi-morbid primary care patients reported that lower self-efficacy and higher disease burden leads to lower QoL [56]. The notable two-way relationship between certain predictors and outcomes highlights the complexity of addressing patient self-efficacy.

Given the rise in the ageing population and an increasing prevalence of chronic diseases [57], patient empowerment is imperative to reduce health care burden. Community and individual empowerment are one of the key health promotion principles stated in the Ottawa Charter for health promotion that focuses on enabling people to exercise more control over their health, environment and health choices [58]. Besides, an intervention study using an empowering self-management model that focused on self-awareness, goal setting, planning, adjusting physical, psychological and social structures, and evaluation was found to improve self-efficacy and sense of coherence among elderlies with chronic diseases [59]. In particular, self-efficacy is strongly related to the competence component of the empowerment concept, and it plays a critical role in the initiation and maintenance of positive behaviour change and is a vital mechanism for effective self-management [39, 60, 61]. Higher self-efficacy results in better self-management, which leads to improved health outcomes that not only reduce health care

service burdens but also health care utilisation [36, 62, 63].

In terms of patient self-care and management, there is substantial evidence confirming the relationship between self-efficacy (both general and specific, e.g. pain self-efficacy) and self-management behaviours. Studies have identified a positive relationship between self-efficacy and opioid or medication adherence [61, 64–67], increased communication, partnership, self-care [37, 65] and positive patient-centred communication [68, 69]. A diabetes study reported diabetes management self-efficacy as the only predictor of diabetes control [70]. Higher education level and receiving health education were shown to boost management self-efficacy that was associated with self-care activities (i.e. nutrition, medication, physical exercise) and glycaemic control [70]. This also holds true for cancer patients, where self-efficacy and social support directly and indirectly affected self-management behaviours, specifically, patient communication (e.g. communicating concerns, asking questions, expressing treatment expectations), exercise and information seeking [71]. Pertaining to patients with physical disabilities, social functioning, stronger resilience and less pain and fatigue were strongly associated with disability management self-efficacy [72], which is crucial for increasing odds of employment among disabled youths [73].

Studies have identified a few predictors of self-efficacy among patients with chronic diseases such as duration of diagnosis, severity of disease symptoms, age, availability of social support and health education, and absence of complications and depression [74–77]. Of these variables, availability of social support and healthy literacy can easily be manipulated through intervention programs. Most studies have found a positive relationship between self-efficacy and health literacy, especially functional health literacy [77–81], but there are a few that found no significant associations between self-efficacy and health literacy [75, 82]. In addition, social support is a major factor affecting patients' self-efficacy and self-management behaviours. Apart from boosting self-efficacy and self-management [71, 83, 84], higher social support

was shown to reduce difficulties in medical interactions among breast cancer patients [85] and enhance well-being among diabetes patients [84]. Therefore, it is necessary for health care and educational interventions to include components of social support, health education when targeting patients' management self-efficacy.

According to a recent review by Allegrante et al. [62], much of the empirical research and reviews that have been conducted on the effectiveness of interventions to support behavioural self-management of chronic diseases have demonstrated small to moderate effects for changes in health behaviours, health status, and health care utilisation for certain chronic conditions. Such interventions that targeted or examined self-efficacy as an outcome included web-based, mobile app-based and face-to-face educational training or programs. In Chao et al.'s [86] study, a cloud-based mobile health platform and mobile app service for diabetic patients to self-monitor progress and goals set was found to increase self-efficacy, improve health knowledge and increase behaviour compliance rate, especially in women. Ali and colleagues [87] reported higher pharmaceutical knowledge, patient satisfaction and self-efficacy among cardiovascular disease patients who were qualified to self-administer medication, as compared to those who were just provided educational brochures by nurses. In another study [88], an 8-week Patient and Partner Education Programme for Pituitary disease (PPEP-Pituitary) was found to increase patient and partner's self-efficacy. Self-care behaviour and self-efficacy of asthma patients also improved after attending a self-efficacy intervention constituting educational videos, resources, social support group and phone-based medical follow-up [89]. Other interventions focused on caregivers' self-efficacy by providing caregiver trainings and stress management trainings, which were effective in improving caregivers' self-efficacy in managing patients' symptoms, reducing caregiver stress and increasing preparedness in caregiving [90, 91]. The effectiveness of these interventions in improving self-efficacy suggests the importance of education, progress monitoring, information resources,

social support, and patient-provider trust and communication in self-management behaviour, promoting interventions for patients with chronic diseases and their caregivers.

12.5.2 Role of Self-Efficacy in Parental Outcomes in the Perinatal Period

The emergence of self-efficacy studies on new parents or parents during the perinatal period has revealed the association of self-efficacy with childbirth and psychological well-being and childbirth outcomes. During pregnancy, maternal childbirth self-efficacy is positively correlated with vigour, sense of coherence, maternal support and childbirth knowledge, and negatively correlated with history of mental illnesses [92–94]. Moreover, maternal childbirth self-efficacy affects maternal well-being during pregnancy in terms of negative mood, anxiety, depressive symptoms and fear of childbirth [93–96]. The level of maternal self-efficacy also influences birth choices, with elective caesarean and higher dosage of analgesic epidural during childbirth being more common among mothers with lower childbirth self-efficacy [92–94, 97]. In order to better prepare mothers for childbirth, few studies have adopted a blended approach of antenatal mindfulness practice and skill-based education programs, which was effective in improving childbirth self-efficacy, mindfulness, reducing fear of childbirth, stress, antenatal depression, and opioid analgesic use [98–100]. The mindfulness programs also saw a reduction in postnatal depression, anxiety, and stress [98, 99]. Other studies that implemented antenatal psychoeducation programs also report increase in childbirth self-efficacy among mothers and reduction in fear of childbirth [101, 102].

After childbirth, receiving informal social support is essential for maternal parenting self-efficacy, which helps to reduce risk of postnatal depression [103]. A study by Salonen et al. [104] comparing parenting self-efficacy levels between mothers and fathers revealed that mothers tend to score higher than fathers on parenting self-

efficacy. Age, multiparity, presence of depressive symptoms, perception of infant's health and contentment, and quality of partner relationship were shown to be significant predictors of parenting self-efficacy in mothers and fathers [94, 104, 105]. Parenting self-efficacy not only is crucial for personal health and well-being but also contributes to healthy marital relations, family functioning and child development [106]. Therefore, various educational and technology-based interventions have been developed in hopes of boosting parental self-efficacy in the postpartum period. A postnatal psychoeducation program designed for the first-time mothers, consisting of a face-to-face educational session during a home visit, an educational booklet and three follow-up telephone calls was found to be effective at enhancing maternal self-efficacy, reducing postnatal depression, and increasing perceived social support [107]. A more recent technology-based Supportive Educational Parenting Program (SEPP) targeting both parents, comprised of two telephone-based educational sessions and 1 month follow-up via an educational mobile health app [108]. As compared to routine postpartum care, the SEPP was effective in promoting parenting self-efficacy, parenting satisfaction, parental bonding, better perceived social support and reducing postnatal depression in both mothers and fathers [108].

Self-efficacy in the postpartum period also includes breastfeeding. Dennis [109] reported significant predictors of breastfeeding self-efficacy as maternal education, support from other mothers, type of delivery, satisfaction with labour pain relief, satisfaction with postpartum care, perceptions of breastfeeding progress, infant feeding method as planned and maternal anxiety [109]. A study conducted among Japanese women found that breastfeeding self-efficacy is also associated with maternal perceptions of insufficient milk, leading to discontinuation of breastfeeding during the immediate postpartum period [110]. Breastfeeding is highly encouraged by health care professionals due to its nutritional value, benefits to the infant's development and potential mother-child bonding; therefore, stud-

ies seek to develop educational or support programs to promote breastfeeding. During pregnancy, antenatal educational interventions using breastfeeding workbook or videos and demonstrations have shown to be effective in increasing mothers' breastfeeding self-efficacy at 4 weeks postpartum [111, 112]. During the postpartum period, peer-support interventions for breastfeeding are more common [113]. Combined with professional support, peer-support breastfeeding programs are effective in boosting breastfeeding self-efficacy [113].

Despite the heavy focus on maternal self-efficacy during and after pregnancy, there has also been an increase in health care research on fathers' involvement during the perinatal period, as early paternal involvement during and after pregnancy was found to positively influence maternal well-being and benefit the biopsychosocial development of infants 14 months and below [114–116]. A recent study by Shorey et al. [117] found that high paternal self-efficacy is one of the main factors of high paternal involvement during infancy, especially among first-time fathers. Higher paternal self-efficacy also leads to increase in parenting satisfaction over the first 6 months postpartum [118]. According to a review on informational interventions aiming to improve paternal outcomes [117], there were only three interventions (via online dissemination of information or self-modelled videotaped interaction and feedback) that reported on paternal self-efficacy [119–121], but only Hudson et al.'s [119] study found an intervention effect on parenting self-efficacy and parenting satisfaction in fathers. In addition to informational interventions, educational interventions are also useful and important in boosting paternal self-efficacy and other paternal outcomes [108, 122].

Overall, in order to effectively enhance parental self-efficacy across these various aspects (i.e. childbirth, parenting, breastfeeding) during the perinatal period, it is necessary for interventions to incorporate and target at least a component of the self-efficacy theory (mastery experiences, vicarious experiences, verbal persuasion, and emotional and physiological arousal).

12.5.3 Role of Self-Efficacy in Nursing Education

Another application of self-efficacy in the health care setting is with regard to nursing education and training. Effective clinical trainings should establish a sense of self-efficacy among nursing students, which is a key component for acting independently and competently in the nursing profession [123–125]. Students' clinical performance, course completion and achievement motivations are also dependent on individual perceived self-efficacy [125–127]. According to Bandura [128], students with low self-efficacy will tend to avoid situations that led to past failures; therefore, strong sense of self-efficacy and job satisfaction is crucial in reducing attrition in the nursing profession [126, 129]. Lastly, as a future health care practitioner, clinical self-efficacy and competence are essential for providing quality health care and ensuring patient safety [125].

Evidence has suggested that older age, being married, more working experience in the nursing field, individual interest and willingness to work in a nursing unit contributes to high nursing self-efficacy in students [127, 130, 131], which is also an important factor in creating clinical confidence [132]. Clinical environments, nursing colleagues, and clinical educator's capabilities can influence the creation of clinical self-efficacy in nursing students [123]. A weak relationship between faculty and hospitals, lack of staff and training facilities, and unprofessional trainers could adversely influence self-efficacy [133, 134]. More specifically, students have reported that using logbooks, having more authentic clinical simulations, working alone, more ward time, being under the guidance of one instructor, and receiving constant verbal validation, positive feedback and support can increase one's own sense of self-efficacy [123, 135, 136]. These corresponds with components of the self-efficacy theory [128] in terms of mastery experiences, vicarious experiences and verbal persuasion.

Numerous education and clinical training curriculums are being developed and constantly revised to target promotion of self-efficacy in

specific clinical skills among nursing students. Sabeti and colleagues [137] found that students' self-efficacy ranges from weak to excellent across different skills, with high self-efficacy in medication administration and nursing procedures, and low self-efficacy in care before, during and after diagnostic procedures. In Pike et al.'s study [136], despite undergoing a clinical simulation program aimed to improve learning self-efficacy, students still reported low self-efficacy in communication skills. However, in another study, a blended learning pedagogy was used to redesign a nursing communication module from didactic lectures to an online and face-to-face interactive classroom sessions, which resulted in increased communication self-efficacy and better learning attitudes among nursing students [138]. In nursing education, clinical simulations are widely used to create authentic scenarios and training environments and were often the most effective method in boosting students' self-efficacy. A study comparing the effectiveness of a peritoneal dialysis simulation with watching videos reported higher psychomotor skills score and self-efficacy among students who underwent the simulation than those who just watched videos of the procedure [139]. Similarly, a Diverse Standardised Patient Simulation was also seen to improve students' transcultural self-efficacy perceptions [140]. Notably, simulation exercises were more effective at improving students' self-efficacy and critical thinking skills when conducted after a role-play than after a lecture [141]. Overall, nursing curriculum and clinical simulations play a vital role in mastery experiences, and the integration of positive feedback (verbal persuasion) and observation of clinical educators in ward settings (vicarious experiences) would present an ideal method of enhancing self-efficacy among nursing students.

12.6 Conclusion

The self-efficacy theory is in itself linked with other psychological theories to influence health-promoting behavioural changes in various life situations. The applications of self-efficacy in

various nursing contexts ultimately boil down to health promotion and improvement of the quality of health care and patient safety. The concept of self-efficacy has played a significant role in not only predicting individual physical and psychological wellbeing, competencies, and self-care management, but also often serve as a theoretical framework for existing clinical and educational interventions. Despite its well-established literature base, emerging evidence on self-efficacy's positive relationship with sense of coherence and the gradual shift of the health care paradigm to a salutogenic orientation indicate a need for subsequent nursing research to continue to tailor and refine ways to enhance self-efficacy in specific population groups.

Take Home Messages

- Self-efficacy is an individual's perception of their own ability to perform a particular behaviour through cognitive, motivational, affective and selection processes.
- Self-efficacy is derived from mastery experiences, vicarious experiences, verbal persuasion and individual emotional and physiological state.
- Self-efficacy theory is commonly compared to other psychological behaviour theories such as locus of control, self-esteem and intrinsic motivation theory.
- The self-efficacy theory is analogous to Antonovsky's salutogenic theory where self-efficacy is also discovered to be positively associated with sense of coherence.
- The concept of self-efficacy is applied in self-regulation, self-care, self-monitoring and self-management in the nursing context.
- Self-efficacy promotes patients' competence that is vital for self-care and management and is associated with better physical and psychological health among chronically ill patients.
- High maternal self-efficacy is crucial for positive childbirth and breastfeeding experiences, and better psychological well-being during and after pregnancy.
- High paternal self-efficacy increases paternal involvement during infancy and parenting satisfaction.
- In nursing education, self-efficacy plays a vital role in enhancing students' competence, motivation and clinical performance, which influences job satisfaction and quality of patient care provided.
- Education and social support through informational, emotional, formal and informal means are the primary contributors to self-efficacy.
- Overall, self-efficacy is a key health-promoting component among patients with chronic illnesses, parents during the perinatal period, youth and the elderly.

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