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Research article

Perceived strategies of Iranian nursing students in confronting with living challenges

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Abstract: Background: Nursing students experience many challenges in their life when entering adolescents and confronting nursing responsibilities. This study aimed to explore the undergraduate nursing students' strategies in confronting with living challenges. Materials and methods: A conventional content analysis approach used. Nursing students were selected in a purposeful sampling method from universities in Khoy and Tabriz (Iran) and qualitative unstructured interviews were held with 18 undergraduate nursing students. Results: nine strategies were emerged: "Applying the problem-solving process", "Self-controlling in stressful pressures", "Maintaining interpersonal relationships", "Ask for help to remove obstacles", "Relying on own abilities and beliefs", "Organizing the financial situations", "Avoid from unpleasant situations", "Impulsive behavior with adverse conditions", and "Rule-based problem solving". Conclusions: A deeper understanding of life management strategies can be a useful guide for the educational system and can help students and families to overcome stressful situations.

Keywords: undergraduate nursing students; strategies; living challenges; content analysis

1. Introduction

Early adulthood is accompanied with several tasks including starting a business, managing a home and family affairs, civic responsibilities, starting a family, and learning to live with a marriage partner. On the other hands, the responsibilities of nursing roles, it can bring social challenges and conflicts for nursing students [1]. In the transition to student life, nursing students need to quickly adapt to new professional and social responsibilities [2,3] and try to cope with the problems such as the strange environment of the university due to living away from family, the strange environment of the university, new relationships with colleagues, lack of welfare facilities, financial problems, increased individual responsibilities, need for independent decision-making, changing roles and expectations from family, friends and instructors endure a lot of stresses in life [4,5]. Nursing students due to the nature of nursing work are more stressed than other students in addition to university stressors [6–8]. Pulido Martos et al. [7] stated the most perceived stress in nursing students are the fear of unknown situations, fear of mistake in patient care and the use of equipment. Also, Delprato [4] reported heavy workload, and lack of experience in clinical activities. In this regards, Mohammadinia [9] and Sadeghian [10] in Iran showed the fear of uncertain future, entering the clinical field and attending exams were the stressors for nursing students. Also, Lerdsamran [2] identified the financial and family problems as stressors in nursing students. What is known is that sometimes these stressors cause academic failure and dropouts in students [11,12]. According to a study, every year, 15 to 20 percent of nursing students experience academic failure mainly because of their inability to adapt to new situations [13]. These stressful conditions have a negative impact on the dynamics of learning and put them at risk for depression, physical and behavioral problems such as smoking, drinking, inappropriate eating habits and poor educational performance [14,15]. Given the information presented about the stressors and their impact on the life of nursing students, they should adopt stress management skills in order to achieve stability in their life. In any case, there is little evidence that show nursing student strategies in confronting with life challenges. Existing knowledge on this topic is mainly coping strategies for educational problems. However education is just one aspect of student life. In this qualitative study the researchers explore the perceived strategies of nursing students in confronting living challenges.

2. Methodology

2.1. Design

This study is a qualitative conventional content analysis conducted in Iran from April 2017 to March of 2018.

2.2. Sampling

Nursing students from the universities of Tabriz and Khoy in Iran were selected through a purposive sampling. Single and married students, natives and non-natives, dormitory and non-dormitory students were selected to maximum variation sampling. A total of 18 undergraduate nursing students (9 male and 9 female students) were interviewed.

2.3. Data collection

The data were collected through in-depth unstructured and face-to-face interviews. Interviews were conducted by the first author Persian language. Interviews began with a general question "What do you do to confronting with life challenges?" And, and based on the responses of the participants, other questions were raised such as "How do you ask for help?". The interviews were recorded, word-by-word and were transcribed in Microsoft office word (2007).

2.4. Data analysis

Data were continuously collected and analyzed simultaneously. Granhaym and Lundman method was applied to analysis. Each transcribed was read several times for a comprehensive understanding in abstracting process of data. Words, sentences, and paragraphs were compressed as meaning units according to the content. The codes according to their similarities and differences were categorized. Finally, the main theme was extracted as a hidden concept in the data. Data collection was stopped when no new information were not discovered in from further interviews.

2.5. Rigor and Trustworthiness

The rigor of this study was based on Guba and Lincoln criteria. Credibility was established by selecting nursing students with both genders; Azad University and public university, urban and rural, prolonged engagement with participants and checking data with research team. For reliability, two researchers outside of the research were asked to check the data separately. For transferability, the researchers used a detailed description of the field of study, the characteristics of the participants, the process of data analysis, and the provision of adequate quotes. Verifiability was supported by the systematic recording of all research steps.

2.6. Ethical considerations

This study was approved by the Ethics Committee of the Tarbiat Modares University Code of ethics: 9104/D52. Informed consent was obtained from participants. Participants were informed verbally of the aim of the study, voluntary participation, anonymity, confidentiality of information, and the right to withdraw from the research at the time of the request.

3. Results

From the interviews 9 main categories were extracted: "Applying the problem-solving process", "Self- Controlling in stressful pressures", "Maintaining interpersonal relationships", "Ask for help to remove obstacles", "Relying on own abilities and beliefs", "Organizing the financial situations", "Avoid from unpleasant situations", "Impulsive behavior with adverse conditions" and "Rule-based problem solving" (Table1).

Table 1. Main categories and subcategories.

Subcategories	Main categories	Theme
Planning	Applying the problem-solving process	Strategies of confronting in living challenges
Prioritization for problems		
Time management		
Making wise decisions		
Contemplation		
Using the internet		
Using the library resources		
Creating innovative solutions		
Justifying others with talking	Maintaining interpersonal relationships	
Apologizing		
Keeping respect		
Truth telling		
Self-convince to accept events	Self-Control	
Remaining silent		
Hiding trivial issues		
Being introverted		
Coping with difficult situations		
Doing mental relaxation		
Taking advantage of experienced people	Ask for help to remove obstacles	
Getting help from trusted friends		
Sharing problems with acquaintances		
Asking help from educators and authorities		
Getting Help from family members		

Subcategories	Main categories	Theme
Self-reliance	Relying on own abilities	
Taking risk in problem solving		
Imitating from others		
Getting a job	Organizing the financial situation	
Getting a bank loan		
Economic saving		
Asking financial help from family		
Get away from annoying problems	Avoid from unpleasant situations	
Living alone		
Not protracting the issue		
Protesting	Impulsive behavior with adverse conditions	
Quarreling		
Principled encounter	Rule-based problem solving	
Observing the rules		

3.1. Applying the problem-solving process

According to the students' statements, planning and prioritizing, estimating time, deciding, deep thinking, and comprehensive awareness of the problems, creating new solutions as well as the using the internet and library were nursing students' strategies for confronting with difficult conditions of life (Figure 1).

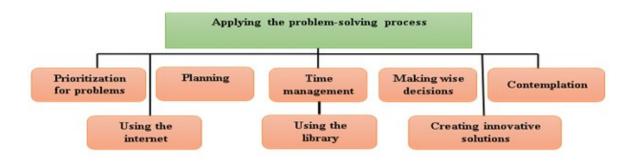


Figure 1. Applying the problem-solving process and subcategories.

3.1.1. Planning

Nursing students used planning and setting goals in dealing with their living challenges. A 24-year-old male student says: "I set up goals not only for my lessons but also for my whole life. I have a multi-year, monthly, weekly, and daily plan for my life".

3.1.2. Prioritization for problems

Nursing students used prioritizing life problems to solve their life challenges. A 24-year-old male student says: "I try to solve the most critical problem first. That is I prioritize".

3.1.3. Time management

Accurate timing, time calculation and time-saving were another strategies among nursing students in dealing with problems in life. A 34-year-old female student says: "I have to take a bus every day at 5 am to reach the hospital. I tried to arrive early so that there was no problem with my educator".

3.1.4. Making wise decisions

In difficult emotional situations, nursing students adopted a wise decision-making strategy. A 24-year-old female student says: "I always try to make decisions in difficult situations with a comfortable mental condition. In that case, the probability of fulfilling a decision is 90 percent and it is wise".

3.1.5. Contemplation

Nursing students thoughtfully look in dealing with family and professional stressful problems described reflection behaviors. A 23-year-old female student says: "As for important events in my life, especially matters about my future destiny, I tried to think about it first and investigate".

3.1.6. Using the internet

Nursing students also used the internet to increase their skills in problem solving. A 23-year-old female student says: "I usually solve my problems by searching in internet to get the necessary information".

3.1.7. Using the library resources

Nursing students used the library for problem solving, especially on complex problems in their life. A 21-year-old female student says: "During exam whatever I studied, I would forget them on exam session. Then I noticed that by studying at the library I would learn more".

3.1.8. Creating innovative solutions

Creating new strategies and using innovation in new situations were applied by students to problem solving during student life. A 24-year-old male student says: "For solving my problems, I have new ideas, and I use a creativity of mind because the teachers are not available always".

3.2. Maintaining interpersonal relationships

Nursing students tried to make the issues as transparent as possible to maintain interpersonal communications with others. Also, they apologize and respect others to gain satisfaction when a communication problem occurs. They are also in the face of annoying living conditions trying to prove the truth (Figure 2).

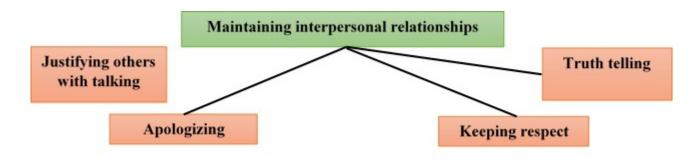


Figure 2. Maintaining interpersonal relationships and subcategories.

3.2.1. Justifying others with talking

Nursing students talked with people to justify and explain the causes of the events, behaviors, and their problems. A 24-year-old female student says: "I have recently been criticized by my friends saying that I am vindictive and proud. That made me sad. I explained to them the reason for my behavior and justified them, and all the doubt and possible grudges were resolved".

3.2.2. Apologizing

Apologizing for unwanted events was another nursing student's strategy to maintaining and improving interpersonal communications. A 24-year-old female student says: "When I get into trouble with someone, I will apologize completely polite and without any shy".

3.2.3. Keeping respect

Nursing students were respecting others to prevent possible excuses and conflicts in life. A 23-year-old female student says: "I have been extremely respectful and polite to my husband. Because whatever I did would change to a problematic subject for him".

3.2.4. Truth telling

In dealing with annoying condition of life, nursing students took truth-telling in the description of the events to improve communications. A 23-year-old female student says: "If there are any problems related to the dignity and personality of me and it will affect my relationships, I will try to prove it".

3.3. Self-control

Nursing students tried to reduce the stresses by self-control their emotional stresses by convincing themselves to accept events, remaining silent, hiding trivial issues, being introvert, doing Spiritual Affairs, and mental relaxation strategies (Figure 3).



Figure 3. Self-control and subcategories.

3.3.1. Self-convince to accept events

Convincing themselves against the events was strategy to self-control in nursing students. A 23-year-old male student says: "About my patient's death and my distress, I can say that by over time, I convinced myself that I was not guilty in my patient's death".

3.3.2. Remaining silent

Participants tried to remain silent in the face of family problems, failure to persuade others, and insults. A 24-year-old female student says: "There were terrible conflicts and quarrels in my life between my family and my husband's family. I tried to keep silence for a while".

3.3.3. Hiding trivial issues

Hiding issues of low importance was one of the strategies of nursing students were doing to handle difficult living conditions. A 24-year-old female student says: "when I went to the university, it was the first time that I came to town. I was stressed. I tried to hide it from others that I come from rural area".

3.3.4. Being introverted

Not expressing and not conveying issues and events to others was a nursing student's strategy to reduce tension. A 24-year-old female student says: "I'm an introvert person because; it's not easy to say bad events to others. I have never told anyone".

3.3.5. Coping with difficult situations

Nursing students to reduce their tension were trying to adapt themselves to recurrent problems. A 24-year-old male student says: "After the death of the child in hospital and a bad experience I had, I gradually adapted to my job. So, I did not hurt such events".

3.3.6. Doing spiritual affairs

Resorting to God and praying were strategies of nursing students in difficulties. A 24-year-old male student says: "In troubles, or when I'm so upset, the only thing that can make me calm is talking to God and this will make me feel better".

3.3.7. Doing mental relaxation

Nursing students used relaxation methods such as crying, listening to music, walking, and writing, participation in group and recreational activities and sleeping to distract their thoughts from stressful situations. A 24-year-old male student says: "I am entertaining myself with interesting things. Whether playing for fun or going to the gym, I try to distraction my thought. Truly, doing a group activity can be very effective".

3.4. Ask for help to remove obstacles

Asking for help from others was another strategy of nursing students to confronting with life challenges (Figure 4).

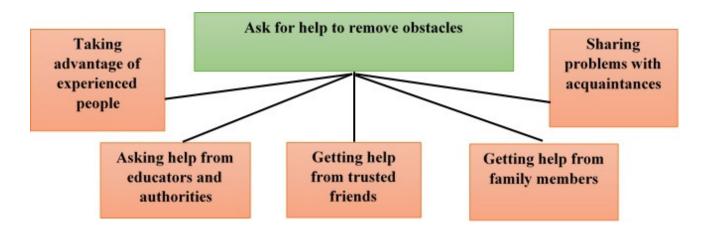


Figure 4. Ask for help to remove obstacles and subcategories.

3.4.1. Taking advantage of experienced people

Taking advice from others such as experienced elders and informed people was another strategy of nursing students in difficulties. A 24-year-old male student says: "Sometimes I have a serious problem; I consult with one who is qualified and has more information than me in this field".

3.4.2. Getting help from trusted friends

Asking help from intimate friends to do clinical activities and using their experiences in different aspects were a strategy of nursing students to manage difficult conditions. A 24-year-old male student says: "When there is a problem in a field or something is wrong with me, I talk about it with my friend, because I trust him. Then everything will be OK".

3.4.3. Sharing problems with acquaintances

Consultation, sharing life issues and intermediation with family members (aunt, cousin) in disturbed situations to solve the problem was another strategy by nursing students. A 23-year-old female student says: "If there's a problem that I cannot share with my mom, I'll talk to my cousin (my mother's sister's daughter). I trust her a lot".

3.4.4. Asking help from educators and authorities

Nursing students in the face of difficulties of educational-clinical situations would benefit from the help of educators and educational authorities. A 23-year-old female student says: "I was very stressed when I was taking blood from the patient. Then I got help from my educator." A 22-year-old female student says: "In communication problems with my colleagues, head-nurse guided me a lot. She explained the professional behavior to me".

3.4.5. Getting help from family members

Nursing students asked parents, siblings, and spouses for help in life and educational difficulties that was beyond their abilities. A 26-year-old male student says: "I had a financial problem and I get the most support from my parents and my brothers. They also agreed to pay some amount of money in this difficult condition".

3.5. Relying on own abilities

Nursing students tried to rely on their own abilities, knowledge, risk-taking and imitating from others to solve their life problems (Figure 5).



Figure 5. Relying on own abilities and subcategories.

3.5.1. Self-Reliance

These students believed that they would be able to solve life difficulties by self-dependence. A 23-year-old male student says: "I rely on myself instead of relying on others and I must solve my problems, not others".

3.5.2. Taking risk in problem solving

Students tried to solve the problem immediately with risk taking in the uncertainty in the future. A 21-year-old male student talk about his own risk-taking experience in putting his personal belongings in an insecure condition: "The locker room was very unsafe, the lockers were not locked, I finally had to take risks and put my costumes there and go to the ward".

3.5.3. Imitating from others

The imitation of others methods was another strategy used by nursing students to face with confused conditions. A 24-year-old female student says: "The first semester of the university was hard for me; it was the first time I was in the city. I was stressed. I tried to chase the other students and imitate their social behavior. And see how they commute and behave".

3.6. Organizing the financial situation

Students tried to reduce their financial problems by obtaining loans, savings and student work (Figure 6).

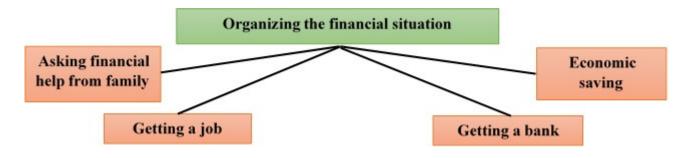


Figure 6. Organizing the financial situation and subcategories.

3.6.1. Asking financial help from family

Participants asked for financial help from their family members to provide student expenses. A 23-year-old male student says: "My financial condition was bad the previous month. I went to my brother and asked for financial aid. He gave me money".

3.6.2. Getting a job

Nursing students had to take a job to pay tuition and dormitory fees. A 24-year-old male student says: "I picked up student work this year. I don't like to be financially dependent on my father and brother."

3.6.3. Getting a bank loan

In difficult financial situation, nursing students were using bank loans. A 26-year-old male student says: "I had a financial problem; I got an apartment with installments and got involved with it. I want to get a loan to see if I can fix my financial condition?".

3.6.4. Economic saving

Nursing students were trying to managing their cost and salary. A 23-year-old male student says: "Some time I was a penniless, then I was trying to save as much as I could; I tried to use my salary until the end of the month Or I went to college from dormitory by bus".

3.7. Avoid from unpleasant situations

Nursing students were trying to get away from annoying situations (Figure 7).

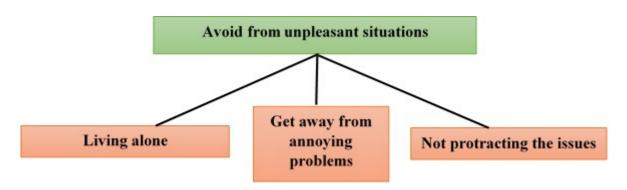


Figure 7. Avoid from unpleasant situations and subcategories.

3.7.1. Get away from annoying problems

Not attending unpleasant situations and escaping problems were other student strategies for facing with educational or family constraints. A 27-year-old male student says: "With the childish and annoying thoughts of my classmates; I do not like to attend in classes".

3.7.2. Living alone

Nursing students were getting away from and reducing communications with others in the face of distressing situations of family life. A 23-year-old female student says: "Following all these family problems, I've now cut my communication with my husband's family. I do not have a relationship now, and now I feel better".

3.7.3. Not protracting the issues

Nursing students try to solve problems and reduce tension by shortening the quarrel and not discussing in turbulent social situations. A 23-year-old female student says: "Something I've experienced that you have to be patient with everyone and not protract the issue and say 'yes' you are right. In general, I do not discuss".

3.8. Impulsive behavior with adverse conditions

Nursing students, in response to unpleasent conditions and to resolve it, tried to protest in different methods. Even in some circumstances, because of a problem in interpersonal communications they had to face fierce encounters (Figure 8).

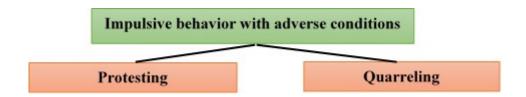


Figure 8. Impulsive behavior with adverse conditions and subcategories.

3.8.1. Protesting

Nursing students to solve and reduce the tensions of problems that arising from inappropriate performance of nursing staff, the discrimination between nursing students and medical students and inappropriate welfare conditions in the hospital, protesting in group. A 21-year-old male student said: "In the hospital's canteen, they were giving breakfast to medical students, but not to nursing students. To solve this problem, we wrote a letter of protest and we all signed the letter".

3.8.2. Quarreling

Dispute and harsh behavior were another nursing student's strategies in dealing with problems in interpersonal communications. A 24-year-old male student says: "I should say that it happened I quarreled in the college. If someone tells me a harsh word, I cannot be silent. Sometimes I have to have a kind of verbal or physical conflict with them".

3.9. Rule-based problem solving

The principle-oriented dealing with events and observing the rules in educational and daily living affairs are the most effective strategies in nursing students for managing their lives (Figure 9).

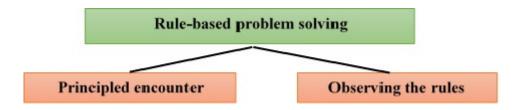


Figure 9. Rule-based problem solving and subcategories.

3.9.1. Principled encounter

Nursing students were trying to use principled encounter with stressful events and overcome them. A 21-year-old male student says: "I think any problem can be solved. You just have to act in principle because you probably do not know what you're doing that moment because you might be stressed".

3.9.2. Observing the rules

Believing in the rule and observing the rules to accelerate problem solving were the nursing students' strategies in facing difficult situations in educational and life affairs. A 24-year-old male student says: "I follow the legal path in facing academic and administrative problems. Observing the rules has always advanced my affairs".

4. Discussion

The purpose of this study was to explore the undergraduate nursing student's strategies in confronting living challenges. According to the findings, nursing students used problem-solving methods. Many studies emphasize the importance of problem-solving to confront situational problems, and as an effective factor in reducing stress, increasing the person's ability to communicate with others [16,17]. Because the problem-solving process differs by with the situations and cultural norms, it is expected that problem solving in Iranian students will also be different [18]. What is important in the findings is that students are trying to adjust their stressful situations with self-control and appropriate interaction with stress [19]. Different from this finding, Angulo [20] emphasizes that the lowest score of promotion program among nursing students is related to the self-control. Another finding was resort to God as a strategy in the most of nursing students. In explaining the cultural care process in nurses, it has been shown that Iranian nurses use spirituality based on their belief in divine destiny [21]. Findings show nursing students are trying to maintain communications with family, friends, teachers and their classmates to manage their living challenges. In a study by Bryan [22], nursing students have a weak to a moderate communication with their educators. Also, findings show nursing students asking help to remove obstacles by looking for social support and counseling from family, friends, university officials. In this regard, Wang [23] showed that nursing students are using optimistic actions and social support in deal with stressful situation. This finding is further enhanced by the high dependence of Iranian families. Financial Management was another strategy of nursing students; financial stress for students, almost always put emotional pressure on students especially in the costs of staying in a dormitory and studying. In many studies financial problems have always been considered as a serious challenge for nursing students [24,25].

Trust in own abilities and beliefs in nursing students in this study was another strategy that they used to manage the stressful situations of education and family. In this regard, Mazloumi, et al [26] said that high self-esteem is an important factor in the health and well-being of the individual throughout his lifetime.

What can be considered in our study findings is that most students, with a multi-faceted strategies, were trying to moderate the adverse conditions caused by stressful issues in their comfort, Apart from strategies to avoid unpleasant events and impulsive reactions to unfavorable conditions, other methods adopted by the students suggest positive approaches to stress; what is seen in the technique of get away from unpleasant situations is the adoption of positive aspects of avoiding stressful situations. Shaban [18] and rafati [27] state avoidance is the most common mechanism in nursing students to cope with stress. Contrary to this finding, Al-Zayyat & Al-Gamal [28] and Chen & Hung [29] identified avoiding of the stressful situations is the least strategy used by nursing students. Some studies have shown escape-avoidance behavior such as drug abuse or unhealthy nutrition among students in confronting with stressful situations [25]. In our study, researchers believe that experiences that nursing students have learned from the community, family, friends or senior students helped them to cope effectively with stressors; therefore, they did not show avoidance behaviors. In line with our content analysis, Rafati [27], show nursing students were struggling to show principled encounter in dealing with stressful events and observe professional and life rules to speed things up which is the concept of Principle-oriented in the present study.

5. Conclusion

In this study, finding show undergraduate nursing students are able to use empirically learned strategies to confront with educational and familial challenges. By knowing the problems and strategies of life management, nursing educational systems can arrange a curriculum to educate and develop these strategies for the student, education staff and even families. This program will be able to prepare nursing students for the daily life and professional future requiring more ability and promote the level of health and quality of their profession lives.

Conflict of interest

The authors declare no conflict of interest.

References

1. Lapeña-Moñux YR, Cibanal-Juan L, Orts-Cortés M, et al. (2016) Nurses' experiences working with nursing students in a hospital: A phenomenological enquiry. *Rev Lat Am Enfermagem* 24: e2788.

- 2. Lerdsamran S, Uratanamanee S (2016) Stress and anxiety of undergraduate nursing student. *The* 2016 International Academic Research Conference in Milan, 82–145.
- 3. Michaeli Manee F, Ahmadi Khouiee S, Zaree H (2011) The effect of three life skills instruction on the general health of college freshmen. *J Mazandaran Univ Med Sci* 21: 127–137.
- 4. Del Prato D, Bankert E, Grust P, et al. (2011) Transforming nursing education: A review of stressors and strategies that support students' professional socialization. *Adv Med Educ Pract* 2: 109–116.
- 5. Labrague LJ (2013) Stress, stressors, and stress responses of student nurses in a Government Nursing School. *Health Sci J* 7: 424–435.
- 6. Sharma N, Kaur A (2011) Factors associated with stress among nursing students. *Nurs Midwifery Res J* 7: 12–21.
- 7. Pulido-Martos M, Augusto-Landa JM, Lopez-Zafra E (2012) Sources of stress in nursing students: a systematic review of quantitative studies. *Int Nurs Rev* 59: 15–25.
- 8. Siappo CLG, Núñez YR, Cabral IE (2016) Nursing students' experiences in selfcare during training process in a private university in Chimbote, Peru. *Escola Anna Nery* 20: 17–24.
- 9. Mohammadinia N, Rezaei M, Heydarikhayat N, et al. (2012) Assessing stressors and coping styles in medical sciences students. *Q J Nurs Manage* 1: 9–16.
- 10. Sadeghian E, Heidarian Pour A (2009) Stressors and mental health status among students of Hamadan University of Medical Sciences. *J Hayat* 15: 71–80.
- 11. Roos E, Fichardt AE, MacKenzie MJ, et al. (2016) Attrition of undergraduate nursing students at selected South African universities. *Curationis* 39: 1–8.
- 12. Nkutu NT, Seekoe E, Goon DT (2018) Factors associated with dropout, retention and graduation of nursing students in selected universities in South Africa: A narrative review. *Glob J Health Sci* 10: 80–85.
- 13. Kausar T, Ali TS, Gul R (2014) Associated factors of stress among nursing students in their clinical settings. *Malaysian J Nurs* 5: 20–26.
- 14. SHahbazi S, Heydari M, SHeikhy R (2012) The effect of problem-solving skills training on stress tolerance in nursing students. *J Shahrekord Univ Med Sci* 13: 32–37.
- 15. Zamani N, Barahmand A, Farhadi M (2017) The effects of problem-solving training in reducing anxiety among a group of nursing students. *J Nurs Educ* 6: 56–61.
- 16. Shdaifat EA (2018) Stress and coping strategies among nursing students. *Glob J Health Sci* 10: 34–41.
- 17. Abolhasani S, Haghani F (2011) Problem-based learning in nursing education: A review article. *Iran J Med Educ* 10: 726–734.
- 18. Shaban IA, Khater WA, Akhu-Zaheya LM (2012) Undergraduate nursing students' stress sources and coping behaviours during their initial period of clinical training: A Jordanian perspective. *Nurse Educ Pract* 12: 204–209.
- 19. Lekan DA, Ward TD, Elliott AA (2018) Resilience in baccalaureate nursing students: An exploration. *J Psychosoc Nurs Ment Health Serv* 56: 46–55.
- 20. de Angulo LGR (2018) Impact of a self-control promotion program on nursing students. *Enfermería Clínica (English Edition)* 28: 118–124.
- 21. Valizadeh L, Zamanzadeh V, Ghahramanian A, et al. (2017) The exploration of culturally sensitive nursing care in pediatric setting: A qualitative study. *Int J Pediatr* 5: 4329–4341.

- 22. Bryan V, Weaver S, Anderson-Johnson P, et al. (2013) The effect of interpersonal relationships between nursing students and lecturers on learning outcomes at a Jamaican nursing school. *Caribb J Nurs* 1: 41–48.
- 23. Wang HF, Yeh MC (2005) Stress, coping, and psychological health of vocational high school nursing students associated with a competitive entrance exam. *J Nurs Res* 13: 106–116.
- 24. Deasy C, Coughlan B, Pironom J, et al. (2014) Psychological distress and coping amongst higher education students: A mixed method enquiry. *Plos one* 9: e115193.
- 25. Horgan A, Kelly P, Goodwin J, et al. (2018) Depressive symptoms and suicidal ideation among Irish undergraduate college students. *Issues Ment Health Nurs* 39: 575–584.
- 26. Mazloumi S, Mehri A, Moravati M (2007) Relationship between self-esteem and self-efficacy with health behaviors in students. *J Med Educ Dev Dev Cent* 3: 11–117.
- 27. Rafati F, Nouhi E, Sabzevari S, et al. (2017) Coping strategies of nursing students for dealing with stress in clinical setting: A qualitative study. *Electron Physician* 9: 6120–6128.
- 28. Al-Zayyat AS, Al-Gamal E (2014) Perceived stress and coping strategies among J ordanian nursing students during clinical practice in psychiatric/mental health courses. *Int J Ment Health Nurs* 23: 326–335.
- 29. Chen YW, Hung CH (2014) Predictors of Taiwanese baccalaureate nursing students' physiopsycho-social responses during clinical practicum. *Nurse Educ Today* 34: 73–77.



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