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WCQR 2018 3rd World Conference on Qualitative Research



From 17th to 19th October, 2018 | Escola Superior de Enfermagem de Lisboa (ESEL)

Musculoskeletal symptoms in nursing students: concept analysis

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Background

The musculoskeletal symptomatology is one of the most common conditions in our society, affecting the individual regardless of gender, age or socioeconomic context.

> Identify various forms, words or expressions that represent the concept and, in a certain way, may be considered as synonyms.



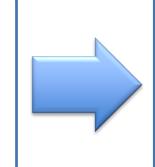
Cestari VR, Barbosa IV, Florêncio RS, de Paula Pessoa VL, Moreira TM. Estresse em estudantes de enfermagem: estudo sobre vulnerabilidades sociodemográficas e acadêmicas. Acta Paul Enferm. 2017;30(2):190-6.





Background

Necessary to clarify the concept of musculoskeletal symptoms in nursing students.



Identifying: their attributes,

antecedents, consequences and protective factors.

Contribute to their minimization or prevention.



Oliveira MA, Greco PB, Prestes FC, Machado LM, de Souza Magnago TS, dos Santos RR. Trastornos/dolor músculoesquelético en estudiantes de enfermería de una universidad comunitaria del sur del Brasil. Enferm Global. 2017 Jun 28;16(3):128-74.





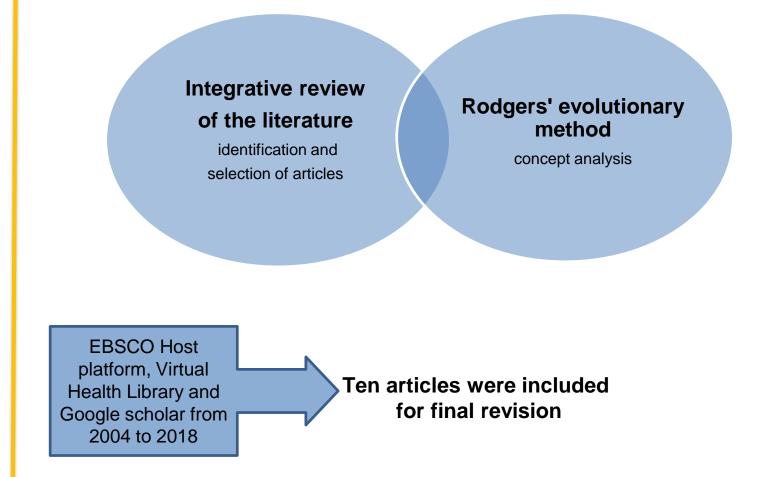


To analyze the musculoskeletal symptomatology concept in nursing undergraduate students through Rodgers' evolutionary method.



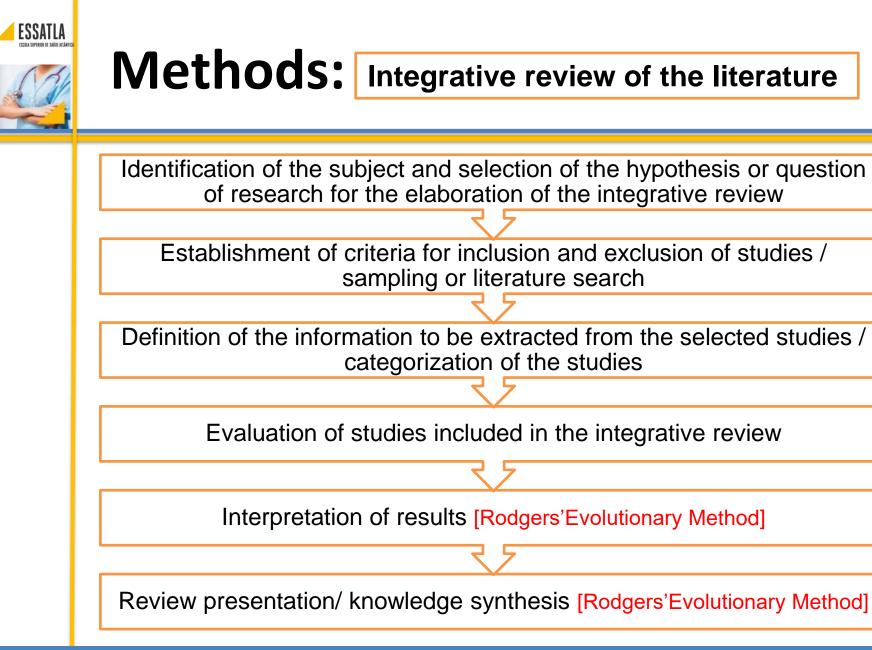


Material and Method



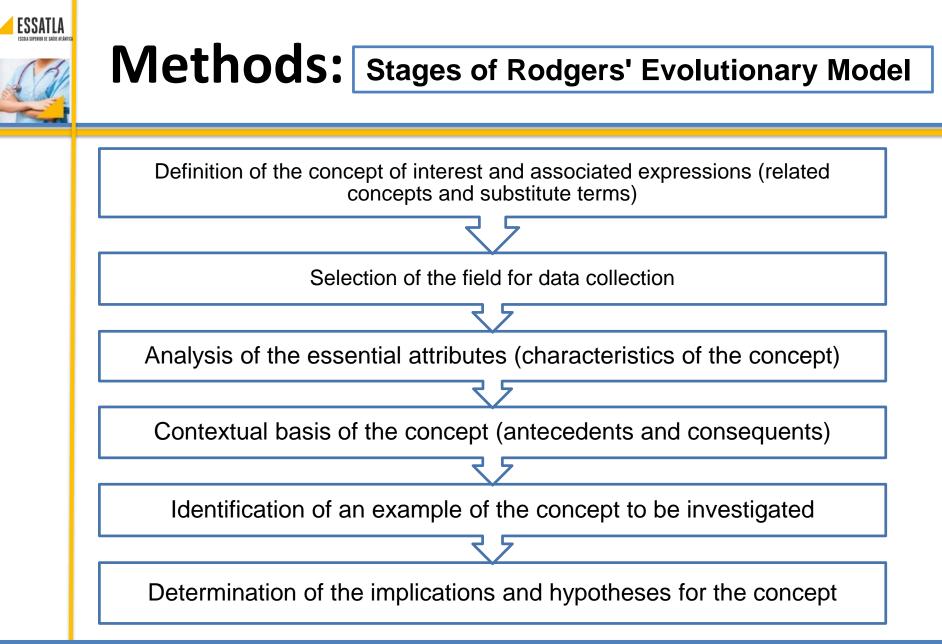


Zagonel IP. Análise de conceito: um exercício intelectual em enfermagem. Cogitare Enferm. 1996;1(1):10-4.





Sousa LM, Marques JM, Firmino CF, Frade F, Valentim OS, Antunes AV. Modelos de formulação da questão de investigação na Prática Baseada na Evidência. Rev Inv Enferm. 2018;S2(23): 31-39.





Rodgers BL. Concept analysis: An evolutionary view. In Rodgers BL, Knafl KA. Concept development in nursing: foundations, techniques, and applications. Saunders. 2nd Ed. Philadelphia: Saunders; 2000. p. 77-102.





Musculoskeletal symptoms according to Rodgers's evolutionary method

Concept characteristics (related and substitutive)

Musculoskeletal Disorders ^(1,14-17-19) Musculoskeletal symptoms related to work⁽⁵⁾

Musculoskeletal symptoms^(5,14-16, 21-22)

Musculoskeletal injury(17)

Essential attributes of the concept (express their nature)

Musculoskeletal pain and discomfort or numbness ^(1,5,14-17-22)

Location: neck, shoulders, lumbar and cervical, knees, wrists and hands ^(1, 5, 14-17, 19-22)

Limitation of normal activities such as work, domestic service or hobbies ^(1,5,20-22)

Slow and insidious multicausal symptomatology⁽⁵⁾

Nordic Questionnaire for Musculoskeletal Injuries ^(1,5,20-22)

Contextual basis of the concept (background and consequences)

Antecedents

Physical factors (inadequate postures, excessive load and positioning, repetition of movements, physical activity) ^(1,5,14-17, 19-22)

Individual factors (age, female gender, previous clinical history, ethnicity)^(5,17,21)

Organizational and psychosocial factors (repetitive work, high work rhythm, stress, anxiety, excessive use of the computer, nursing students, attendance of the last year of the course)^(5, 14-17,19-21) Family history and having an accident.⁽²¹⁾

Consequences

altered quality of life^(14-16, 19, 21) sleep problems^(5, 14-16) academic stress^(1,21) change in life activities^(14-16, 19, 21) change in well-being^(5, 14-17, 21)







<u>Musculoskeletal symptoms</u> are described as an unpleasant physical perception, pain, feeling of weight, tingling and fatigue of an individual, according to the individual's perception.



Garcia TR, Coenen AM, Bartz CC. Classificação Internacional para a Prática de Enfermagem CIPE®: Versão 2017. Artmed Editora; 2016. International Council of Nurses. Guidelines for ICNP catalogue development. Geneva: Switzerland: ICN, 2008. Singh A, Devi YS, John S. Epidemiology of musculoskeletal pain in Indian nursing students. Int J Nurs Educ. 2010;2(2):6-8.



Results

Substitutive terms and related concepts, where musculoskeletal disorders and musculoskeletal symptoms were highlighted;

As <u>essential attributes</u> of the concept we stand out, pain and discomfort. The Nordic Musculoskeletal Questionnaire was the most used

Risk factors were identified as <u>antecedents</u>, and the <u>consequences</u> were the impact on students' lives.



Mesquita CC, Ribeiro JC, Moreira P. Portuguese version of the standardized Nordic musculoskeletal questionnaire: cross cultural and reliability. J Public Health. 2010 Oct 1;18(5):461-6.





The development of intervention programs seems to be fundamental for the prevention of musculoskeletal symptoms.

Nursing degree admission requires students to have cognitive, physical and emotional resources.

The university / school must provide conditions so that nursing students can deal with situations that may interfere and compromise their quality of life.

Early prevention of musculoskeletal symptoms can be performed during the nursing undergraduate degree.



Menzel N, Feng D, Doolen J. Low back pain in student nurses: literature review and prospective cohort study. Int J Nurs Educ Scholarsh. 2016 Jan 1;13(1):19-25. Backåberg S, Rask M, Brunt D, Gummesson C. Impact of musculoskeletal symptoms on general physical activity during nursing education. Nurse Educ Pract. 2014 Aug 1;14(4):385-90.



Conclusions

Factors that predispose this symptomatology must be considered, such as: overload; repetitive movements; inappropriate posture; excessive use of the computer;

Attention should also be paid to the differences in gender, family history, personal history of accidents, physical exercise and others.

The use of both methodologies together allows to answer the outlined objective and showing once again how qualitative methodology can contribute to the production of useful information able to be transferred to practice.





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