

**THESIS TOPICLIST**Nursing and Patient Care Nursing specialization
2023/24. academic year

Name of the supervisor:	Prof. Dr. József Betlehem
Supervisor's workplace:	UP FHS, Department of Health Pedagogy and Basic Emergency Care
Topic title: (1)	Knowledge of modern care tools among nurses
Introduction:	Recently, more and more care support tools have appeared, both in healthcare institutions and in patients' homes. The professional application of these tools in practice is not always effective, which is partly due to the lack of theoretical knowledge and partly of practical experience. The purpose of the study is to assess the habits of nurses using modern nursing devices in departments with different profiles.
Research methods to be used in the processing:	Questionnaires
Required and applicable statistical methods:	Descriptive and mathematical statistics
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Éva Horváth
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (2)	Choosing Nursing as a career: motivational study among young people choosing a career
Introduction:	The nursing profession and career are currently not among the popular career choice areas in Hungary. Thus, in Hungary, due to several factors, there is a significant human resource deficit in the field of nursing. In contrast, interest in the nursing profession is significantly higher in several other countries. The aim of the research is to assess the external-internal motivational factors that influence pre-career choices to choose nursing profession.
Research methods to be used in the p	Questionnaire



Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Éva Horváth
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (3)	Artificial intelligence in nursing, our recent and future possibilities
Introduction:	<p>The explosive development of artificial intelligence (AI) is not leaving health care and nursing behind either. There are many possibilities for exploiting this area. AI encompasses a range of healthcare technologies that are transforming the role of nurses and improving patient care. In healthcare, artificial intelligence generally refers to the ability of computers to independently transform data into knowledge to guide decisions or autonomous actions. However, precisely defining AI can be challenging due to its wide range of applications, including risk-prediction algorithms, robotics, and voice recognition—all of which are improving the quality of nursing practice and moving rapidly toward changing healthcare.</p> <p>AI tools for use in nursing include clinical decision support, mobile health and sensor-based technologies, and voice assistants and robotics.</p>
Research methods to be used in the processing:	Questionnaire, document analysis, data analysis
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)
Estimated number of theses that can be submitted within the theme	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization Advanced Practice Nurse

Name of the supervisor:	Éva Horváth
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title (4):	Difficulties of pain assessment and pain relief in critical care patients from a nursing point of view



Introduction:	Assessing and treating the pain of critically ill patients is a complex and often not an easy task for the professional staff. In the case of unconscious or sedated patients, completely different pain assessment tools are needed to assess pain than in awake oriented patients. The examination of their effectiveness and the comparison of different tools include many perspectives.
Research methods to be used in the processing:	Application of survey tools, data analysis, document analysis
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)
Estimated number of theses that can be submitted within the theme	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization, Advanced Practice Nurse

Name of the supervisor:	Éva Horváth
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title (5):	Medication difficulties and errors from a nursing perspective
Introduction:	Unsafe drug use is one of the most common errors within the health care system that could be avoided. Errors occur most often during drug administration. Nurses have a significant role in preventing and avoiding these errors. After all, they are the last persons in the process who can correct and protect against accidental errors.
Research methods to be used in the processing:	Questionnaire, interview
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)
Estimated number of theses that can be submitted within the theme	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization, Advanced Practice Nurse

Name of the supervisor:	Dr. Annamária Karamánné Pakai
Supervisor's workplace:	UP FHS, Department of Prevention and Health-Visiting
Topic title: (6)	Investigating access to healthcare of foreign students



Introduction:	<p>We have little information on the health status of foreign students studying at the Faculty of Health Sciences of the University of Tartu who do not speak Hungarian.</p> <p>The aim is to assess the habits, barriers, language difficulties and satisfaction with care of foreign BSc students.</p>
Research methods used in the processing:	Questionnaire
Required and applicable statistical methods:	2
In which majors can be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Dr. Zsolt Káposztás/Dr. Adrienn Bíró
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (7)	The effect of exercise on the quality of life and survival amongst patients with gastrointestinal cancer
Introduction:	<p>The incidence of gastrointestinal cancer is rising worldwide. Most of the patients suffers from depression and these patients tend not to perform physical exercise, although there are a few studies to support the positive impact of exercise on survival and also it is thought to reduce the recurrence rate and improve the quality of life.</p> <p>The aim of this study is to analyze the impact of exercise amongst patients who had operation for GI malignancy from the recurrence and quality of life point of view.</p>
Research methods to be used in the processing:	Questionnaire, data collection
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA)
Estimated number of thesis that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization



Name of the supervisor:	Dr. Zsolt Káposztás/Dr. Adrienn Bíró
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (8)	The effect of nutritional status and its impact on patients who undergo radical resection for gastrointestinal cancer
Introduction:	Malnutrition is prevalent in patients undergoing gastrointestinal (GI) surgery for cancer and has a negative impact on the postoperative outcomes. It is relatively simple to analyse the preoperative nutritional status of patients with basic measurements and laboratory parameters. It is recommended to improve preop nutritional status with the help of a dietitian to encourage exercise and introduce the intake of nutritional supplements as part of prehabilitation in the preoperative period. The aim of this study to assess the preop nutritional status of patients and to analyse its effect on the postoperative outcomes.
Research methods to be used in the processing:	Questionnaire, data collection
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression, linear regression, multivariate logistic regression analysis)
Estimated number of thesis that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Dr. Zsolt Káposztás/Dr. Adrienn Bíró
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (9)	Quality of life analysis for patients who underwent colorectal resection for cancer
Introduction:	The incidence of colorectal cancer is constantly rising. More and more patients undergo either open or laparoscopic bowel resection for cancer with the hope for cure. The aim of this study is to analyse patients from the quality-of-life point of view who underwent colorectal cancer surgery.
Research methods to be used in the processing:	Standard questionnaire
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)



Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Dr. Orsolya Máté
Supervisor's workplace:	UP FHS, Department of Health Pedagogy and Basic Emergency Skills
Topic title: (10)	Mental health and resilience of health care workers
Introduction:	<p>In the last decades, attention has been increasingly directed towards mental health and mental health protection. In nursing, multi-shift working and on-call duty are essential, as patient care is a 24-hour activity. In addition to the physical nature of nursing work, there are also significant psychological problems that can be emotionally demanding: emotional support for patients, encounters with death, overwork, low prestige, pay, lack of a supportive environment, lack of clarity about competences</p> <p>Aim: to gain an understanding of the impact on the quality of life of staff in the health system of the stresses arising from job responsibilities, work environment and work organisation (multi-shift working), with particular reference to levels of depression, the impact of health on quality of life and work performance, stress levels, aggression levels, and physical activity and mental resilience levels</p>
Research methods to be used in the processing:	quantitative, prospective and comparative study
Required and applicable statistical methods:	Descriptive statistics: (Kolmogorov Smirnov test) one-sample t-test Wilcoxon or Mann-Whitney
Estimated number of theses that can be submitted within the theme:	3-5
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization Advanced Practice Nurse

Name of the supervisor:	Dr. Orsolya Máté
Supervisor's workplace:	UP FHS, Department of Health Pedagogy and Basic Emergency Skills
Topic title: (11)	Challenges in the health care of people with autism (ASD) and sensory integration disorder (SPD)



Introduction:	Problem statement: adults with autism(ASD) and sensory integration disorder (SPD) are at increased risk of a range of physical and mental health problems compared to the general population, making access to healthcare particularly critical. People with autism often find the healthcare environment quite aversive, and many healthcare providers feel insecure interacting with patients with autism. Our aim is to gain a picture of the healthcare experiences of people with Autism Spectrum Disorder (ASD) and Sensory Integration Disorder (SPD) in healthcare settings, articulating the difficulties from the perspective of both providers and patients.
Research methods to be used in the processing:	retrospective cross-sectional study, questionnaire method, interview
Required and applicable statistical methods:	Descriptive statistics, chi-square test, t-test, correlation analysis, correlation analysi
Estimated number of theses that can be submitted within the theme:	3-5
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization Advanced Practice Nurse

Name of the supervisor:	Dr. Dorina Pusztai
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (12)	Health Behaviour, Sleeping disorders of students/lecturers
Introduction:	Sleep, which is directly associated to health and quality of life, is a basic need for a human being to continue his or her bio-psycho-social and cultural functions. Sleep affects the quality of life and health is also perceived as an important variable. Sleep quality has significant effects on cognitive performance and physical power and is influenced by multiple factors including stress. Contrary to the ideal, students suffer from sleep deprivation and stress at times when they should achieve the greatest amount of learning. However, poor sleep quality may have negative impact test performance as well thus creating a vicious circle. The aim of the research is to analyse the sleep quality and habit of university students or lecturers in Hungary.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)



Estimated number of theses that can be submitted within the theme:	3
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Dr. Dorina Pusztai
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (13)	Knowledge on sexually transmitted diseases
Introduction:	Sexually transmitted diseases are among the most frequent infectious diseases in the world and have negative effects on sexual health/reproduction. To prevent these diseases, the period of youth when sexual activity and health routines begin to take shape is important in terms of determining the lack of knowledge relevant to this the issue and compensating it. Aim of the study to determining the knowledge level of university students about sexually transmitted diseases.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, ANOVA)
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Miklós Sugár
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (14)	Assessment of eating disorders and susceptibility to them among PTE students
Introduction:	In today's consumer society, eating disorders are becoming more and more prevalent, and new ones have been emerging in recent decades. It is therefore clear that the problem is of growing and increasing public health importance. The aim of this study is to assess the various eating disorders or the predisposition to them among PTE students, taking into account their socio-demographic background and somatometric



	characteristics. The study provides an opportunity to investigate the problem among both Hungarian and international students.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics (mean, standard deviation, frequency) and mathematical statistics (chi-square test, t-test, analysis of variance)
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care nursing specialization

Name of the supervisor:	Miklós Sugár
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (15)	Associations of social media use with mental health
Introduction:	The role of social media has been growing over the past decades and in younger age groups it is hard to find a person who does not have an account on some social media platform. In recent years, there have been several research findings on the negative effects of this phenomenon on mental health, but the field is not yet exhausted and many aspects remain to be explored.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics (mean, standard deviation, frequency) and mathematical statistics (chi-square test, t-test, analysis of variance)
Estimated number of theses that can be submitted within the theme:	4
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Miklós Sugár
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (16)	The advantages and disadvantages of telemedicine, and the reception of telemedicine in different communities
Introduction:	The take-up of telemedicine has continued at a greater pace and scale than expected, especially in community care, as a result of the closures imposed in the wake of COVID-19. The predominance of telemedicine



	in many practices continued in the post-epidemic period. This research aims to explore the impact of this on patient satisfaction.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics (mean, standard deviation, frequency) and mathematical statistics (chi-square test, t-test, analysis of variance)
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Miklós Sugár
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (17)	Mental health of nurses in Hungary
Introduction:	Nurses, as helping professionals, have a higher exposure to mental health risk factors compared to the general population. The aim of this research is to assess the mental health of nurses in different wards and in different countries and to compare these results with the general population.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics (mean, standard deviation, frequency) and mathematical statistics (chi-square test, t-test, analysis of variance)
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	Miklós Sugár
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (18)	Assessing the symptoms and impact of chronic anxiety - the role of the nurse in recognition and management



Introduction:	Chronic anxiety is an increasingly common phenomenon in our society. It has a significant impact on quality of life and can be associated with a number of psychosomatic symptoms. The present research aims to explore this in different populations and to explore the role of nurses in the recognition and management of this problem.
Research methods to be used in the processing:	Questionnaire
Required and applicable statistical methods:	Descriptive statistics (mean, standard deviation, frequency) and mathematical statistics (chi-square test, t-test, analysis of variance)
Estimated number of theses that can be submitted within the theme:	2
In which major can the topic be advertised:	Nursing and Patient Care Nursing specialization

Name of the supervisor:	László Szabó
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (19)	Examining workplace stress and coping strategies among nurses
Introduction:	In different areas of the nursing profession, stress levels vary according to the nature of the activity, but staffing levels, job insecurity and career image can also expose workers globally. The aim of this research is to assess the stressors affecting nurses and to explore coping strategies in relation to psychological and somatic complaints caused by stress.
Research methods used in the processing	Survey, structured interview
Required and applicable statistical methods:	Univariate analyses, One-, two-sample T-test, Chi-square test, Correlation analysis
Estimated number of theses that can be submitted within the theme:	3
In which majors can be advertised:	Nursing and Patient Care nursing specialization

Name of the supervisor:	László Szabó
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (20)	Stigma and prejudice against people with mental disorders from the perspective of carers and society



Introduction:	Patients with mental disorders often suffer discrimination from society, which is also a major challenge in their care. Our research aims to assess the levels of stigma experienced by patients and attitudes of carers.
Research methods used in the processing:	Survey, structured interview
Required and applicable statistical methods:	Univariate analyses, One-, two-sample T-test, Chi-square test, Correlation analysis
Estimated number of theses that can be submitted within the theme:	3
In which majors can be advertised:	Nursing and Patient Care nursing specialization

Name of the supervisor:	László Szabó
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (21)	Ethical and technological dilemmas in patient education today and in the near future - based on a survey of patients' prior knowledge
Introduction:	The research investigates the extent to which the younger generation - current and near future patients - change their level of prior knowledge compared to older patients during client education. How the amount of lay and professional information available at home affects the knowledge level of clients and how can this be used by the nurse in patient education.
Research methods used in the processing:	Survey, structured interview
Required and applicable statistical methods:	Univariate analyses, One-, two-sample T-test, Chi-square test, Correlation analysis
Estimated number of theses that can be submitted within the theme:	2
In which majors can be advertised:	Nursing and Patient Care nursing specialization

Name of the supervisor:	Lívia Tóth
Supervisor's workplace:	UP FHS, Department of Nursing Sciences
Topic title: (22)	Mental health of International students



Introduction:	<p>Mental health is a clear pathway to adequate change management, personal development and optimal adaptation. This is particularly important in university life.</p> <p>The number of mental illnesses has multiplied, and chronic stress, lack of self-confidence, depression are all present in people's everyday lives. It is well-known that prevalence of stress, anxiety, and depression is high among university undergraduate students in developed and developing countries. Students entering university are from different socioeconomic background, which can bring a variety of mental health risk factors.</p>
Research methods used in the processing:	Questionnaire, interview
Required and applicable statistical methods:	Descriptive statistics, mathematical statistics (chi-square test, t-test, ANOVA, linear regression)
Estimated number of theses that can be submitted within the theme:	2
In which majors can be advertised:	Nursing and Patient Care nursing specialization

Pécs, 12th October, 2023

Prof. Dr. József BETLEHEM
director of institute, full professor