



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"		
ACADEMIC YEAR	2024/2025		
MASTER'S DEGREE (MSC)	NURSING AND MIDWIFERY		
INTEGRATED COURSE	EVIDENCE-BASED NURSING AND MIDWIFERY - INTEGRATED COURSE		
CODE	18009		
MODULES	Yes		
NUMBER OF MODULES	3		
SCIENTIFIC SECTOR(S)	MED/05, MED/01, MED/45		
HEAD PROFESSOR(S)	BALISTRERI CARMELA	Professore Associato	Univ. di PALERMO
	RITA		
OTHER PROFESSOR(S)	BALISTRERI CARMELA	Professore Associato	Univ. di PALERMO
	RITA		
	LATINA ROBERTO	Ricercatore a tempo determinato	Univ. di PALERMO
	MANISCALCO LAURA	Ricercatore a tempo determinato	Univ. di PALERMO
CREDITS	10		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>BALISTRERI CARMELA RITA Wednesday 10:00 12:00 Istituto di Patologia generale, Corso Tukory 211</p> <p>LATINA ROBERTO Tuesday 11:00 14:00 Segreteria di Coordinamento CdS in Infermieristica, ingresso principale aula Turchetti, piano terra, Policlinico di Palermo. Si riceve solo su appuntamento, anche a distanza inviando una mail a roberto.latina@unipa.it</p> <p>MANISCALCO LAURA Friday 11:30 13:30</p>		

DOCENTE: Prof.ssa CARMELA RITA BALISTRERI

PREREQUISITES	The student must have knowledge of the biochemical and anatomical aspects of all body tissues, as well as the pathophysiological aspects of the main pathologies. Furthermore, he must have acquired the elements of the professional internships carried out during the three-year degree
LEARNING OUTCOMES	<ol style="list-style-type: none">1. Knowledge and understanding: The student will have to acquire the cultural and technical foundations in the field of clinical pathology, statistics and research methodology2. Ability to apply knowledge and understanding: Knowledge must allow him to apply analysis procedures to use and enhance company resources and the skills of healthcare workers, and to carry out planning and management activities in order to achieve certain company objectives aimed at improving the preventive and community medicine, biological risk and workplace safety, and develop flow diagrams dedicated to the resolution of health problems through experimental activities and analyzes using research and application-educational approaches and strategies.3. Independence of judgment: Ability to make autonomous decisions on the reliability of the results obtained through adequate analysis strategies and their adequacy aimed at evaluating both management activities and skills, and safety, the prevention of risks or adverse events.4. Communication skills: Being able to relate to the different healthcare professionals working in a company or institution to correctly communicate the data processed and the approaches or recommendations to be adopted.5. Learning ability: being able to apply the scientific methodology and the acquired "learning by going", to correctly collect and interpret any problems and to apply adequate strategies and recommendation
ASSESSMENT METHODS	<p>Oral examination which consists of an interview aimed at verifying knowledge and full understanding of the topics addressed in the course, as well as the candidate personal capacity of explain and processing his/her knowledge. The vote is expressed in thirtieth, as detailed in the following scheme:</p> <p>30-30 laude: Excellent knowledge of teaching content; students demonstrate high analytical and synthetic capacity and it is able to apply the knowledge to solve problems of high complexity</p> <p>27-29: Excellent knowledge of teaching content and excellent properties of language; students demonstrate analytical and synthetic skills and able to apply their knowledge to solve moderately complex and, in some cases problems, even high</p> <p>24-26: Good knowledge of teaching content and good properties of language, the student is able to apply the knowledge to solve problems of medium complexity</p> <p>21-23: Fair knowledge of teaching content, in some cases limited to the main topic; acceptable ability to use the specific language of the discipline and independently apply the knowledge acquired</p> <p>18-20: Minimum knowledge of teaching content, often limited to the main topic; modest ability to use the specific language of the discipline and independently apply the knowledge acquired</p> <p>1- 17: The student does not have an acceptable knowledge of the main teaching content, very little or no ability to use the specific language of the discipline and independently apply the knowledge acquired.</p> <p>In addition, "compensatory tools and dispensatory measures will be guaranteed by the Disability and Neurodiversity Center - University of Palermo (Ce.N.Dis.) to students with disabilities and neurodiversity, based on specific needs and in implementation of current legislation."</p>
TEACHING METHODS	frontal lessons

**MODULE
NURSING AND MIDWIFERY RESEARCH METHODS**

Prof. ROBERTO LATINA

SUGGESTED BIBLIOGRAPHY

Polit DF, Beck CT. Fondamenti di ricerca infermieristica. Seconda edizione. Edizione italiana a cura di Alvisa Palese McGraw-Hill, 2018.

Consorti F et al. La didattica per il grande gruppo nei corsi di laurea in medicina e delle professioni sanitarie, Ildeson-Gnocchi, 2019

AMBIT	20380-* Scienze ostetriche
INDIVIDUAL STUDY (Hrs)	68
COURSE ACTIVITY (Hrs)	32

EDUCATIONAL OBJECTIVES OF THE MODULE

At the end of the course the student will be able to:

- Illustrate the basic methodological aspects of nursing and midwifery research;
- Distinguish the different aims of qualitative and quantitative research;
- Describe the different types of bibliographic style;
- Identify the peculiarities of the IMRAD model of a scientific article;
- Write a research protocol and a synopsis;
- Describe the linguistic adaptation phases of a useful research tool;
- Define the psychometric aspects of the applicable research tools, in terms of validity and reliability;
- Describe the different literature review methodologies;
- Define the peculiarities of the GRADE method and describe the essential phases for the construction of a Guideline according to the Istituto Superiore di Sanità (ISS);
- Distinguish probabilistic and non-probabilistic sampling methodologies;
- Distinguish the tools useful for assessing the quality of research studies (Consort, STROBE, ect ..)
- Define the meaning of the statistical tests for the analysis of quantitative data;
- Describe the ethical aspects of the research.

SYLLABUS

Hrs	Frontal teaching
4	Introduction to the course: learning objectives. The research process: the methods. A focus on nursing education, the three levels of academic training (Bachelor, Master Degree, Ph.D). Specialized training and advanced skills in the clinical, research, managerial and educational fields. Research nurses or midwives versus researchers. The academic career and notes on the qualification system for ASN university professors. The IMRAD model of a scientific article and authorship, funds, conflict of interest, contribution of the authorship. Bibliographic citations according to APA and Vancouver style. Notes management.
4	Forward and Back translation according to the World Health Organization (WHO). Validity and reliability of research tools: tests applicable in the social sciences and nursing.
5	Types of secondary studies: narrative reviews, scoping reviews, systematics and meta-analyzes The guidelines. Notes on the construction of the Guidelines and the GRADE Model according to the ISS
2	Ethics committees, informed consent and the Universal Ethical Principles of Research
3	Probabilistic and non-probabilistic sampling. Bias, internal and external validity
2	Evaluating the reporting of a study: tools for trials (RCTs) and observational studies
3	Notes on the interpretation of statistical tests
5	Tutorial figures in a nursing and midwifery school. Laboratory and professional activities. Hints of didactics and docimology. Construction of a structured and semi-structured learning evaluation test
Hrs	Practice
4	The Italian Society of Nursing Science (SISI), the Permanent Conference of Health Professions Degree Classes and the FNOPI: Functions. Literature review and databases Pub-Med, CINAHL, Cochrane, Emabase, Scopus, Web of Science Difference between qualitative and quantitative research. How to write a research protocol and a study synopsis.

**MODULE
CLINICAL PATHOLOGY**

Prof.ssa CARMELA RITA BALISTRERI

SUGGESTED BIBLIOGRAPHY

Medicina di Laboratorio _ Logica & Patologia Clinica – terza edizione-Ed. Piccin (DATA PUBBLICAZIONE: marzo 2019)
ISBN: 978-88-299-2973-3; CODICE PICCIN: 0110091; NUMERO PAGINE: 1440; AUTORI: Antonozzi - Gulletta.

AMBIT	20375-Scienze biomediche
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INDIVIDUAL STUDY (Hrs)	51
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COURSE ACTIVITY (Hrs)	24
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EDUCATIONAL OBJECTIVES OF THE MODULE

The objectives of the Clinical Pathology Module are to allow the student to acquire the cultural and application bases of Clinical Pathology that can allow him to apply the scientific methodology and "learning by doing" to use and make the most of company resources and skills of health professionals, and to carry out project work and management in order to achieve certain company objectives aimed at improving preventive and community medicine, biological risk and safety at work, and the development of flowcharts dedicated to the resolutions of health problems through experimental activities and analyzes using research and didactic-applicative approaches and strategies.

SYLLABUS

Hrs	Frontal teaching
2	Logic of laboratory and procedural production and information flows; complex of procedures for quality assurance; health-legal and management aspects that are the basis of the mission of the operators involved in laboratory diagnostics. interpretation of laboratory data: biomarkers and their biological, pre-analytical and analytical variability and their applications in the functional assessment or tissue and organ damage.
3	Hematological diseases and their management: the blood count and its diagnostic, prognostic and out-comes applications.
3	Management of autoimmune diseases: classification, guidelines, criteria and diagnostic biomarkers.
2	The management of allergic diseases and their laboratory diagnostics
2	Management of systemic inflammatory response syndrome and sepsis: description, symptoms, classification, clinical management, complications and therapy. Diagnostics with SOFA score and biomarkers and their diagnostic significance, and related algorithms.
3	Management of Hepatopathies: classification, guidelines, diagnostic algorithms
3	Management of kidney diseases; urinalysis: description, collection and storage of the sample, investigation of the physicochemical and microscopic characteristics of the sediment. Interpretation of data in renal damage and specific biomarkers
2	Management of hypertension, myocardial infarction and heart failure: guidelines, classification and laboratory diagnostics.
2	Management of neurodegenerative diseases and laboratory diagnostics.
1	Geriatric management and multidimensional assessment
1	The clinical management of pregnancy and newborn; management of acquired (outline) and hereditary metabolic diseases

MODULE
QUANTITATIVE METHODS FOR BIOMEDICAL RESEARCH

Prof.ssa LAURA MANISCALCO

SUGGESTED BIBLIOGRAPHY

Libro di testo

Daniel W.W., Biostatistica, Edizione EdiSES

Altri Libri consigliati

1. Triola MM Triola MF, Fondamenti di statistica per le discipline biomediche, 2017 Pearson Italia
2. Peat,J, Barton B. Medical statistics A Guide to Data Analysis and Critical Appraisal. Blackwell Publishing Ltd 2005
3. Bacchieri A., Della Cioppa G. Fondamenti di ricerca clinica, Springer

AMBIT	20374-Scienze propedeutiche
INDIVIDUAL STUDY (Hrs)	51
COURSE ACTIVITY (Hrs)	24

EDUCATIONAL OBJECTIVES OF THE MODULE

The course is aimed to introduce the statistical methodology useful to the skills of the master degree student in Nursing and Midwifery, in particular to understand and support research in the clinical setting. The topics include the understanding of the study design and of statistical analysis, as well as the methods for the construction of health indicators useful to guide decisions of Health Administration and Management

SYLLABUS

Hrs	Frontal teaching
2	Introduction to Health Statistics. Basic concepts: qualitative and quantitative characters, discrete and continuous characters, scales of measurement: nominal, ordinal, intervals and ratio
2	Descriptive data analysis: distributions and graphics
6	Data synthesis: Mean, variability and shape
6	Contingency tables, relationship between variables: correlation, statistical tests and OR
Hrs	Practice
8	Practice on the preparation of tables and graphics to describe and summarize data, using Excel