



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"
ACADEMIC YEAR	2017/2018
BACHELOR'S DEGREE (BSC)	DIETISTICS
INTEGRATED COURSE	DIETETICS, NUTRACEUTICALS AND ONCOLOGY - INTEGRATED COURSE
CODE	18944
MODULES	Yes
NUMBER OF MODULES	3
SCIENTIFIC SECTOR(S)	MED/49, BIO/14, MED/06
HEAD PROFESSOR(S)	BADALAMENTI Professore Associato Univ. di PALERMO GIUSEPPE
OTHER PROFESSOR(S)	BADALAMENTI Professore Associato Univ. di PALERMO GIUSEPPE GIAMMANCO MARCO Professore Associato Univ. di PALERMO
CREDITS	9
PROPAEDEUTICAL SUBJECTS	05209 - MICROBIOLOGY AND GENERAL PATHOLOGY - INTEGRATED COURSE
MUTUALIZATION	
YEAR	3
TERM (SEMESTER)	1° semester
ATTENDANCE	Mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	BADALAMENTI GIUSEPPE Tuesday 14:00 15:30 UOC di Oncologia Medica GIAMMANCO MARCO Tuesday 09:00 11:00 Dipartimento di Discipline Chirurgiche, Oncologiche e Stomatologiche Via Liborio Giuffrè, 5 90127 PALERMO (PA) Thursday 09:00 11:00 Dipartimento di Discipline Chirurgiche, Oncologiche e Stomatologiche Via Liborio Giuffrè, 5 90127 PALERMO (PA)

DOCENTE: Prof. GIUSEPPE BADALAMENTI

PREREQUISITES	Be supported the first year exams
LEARNING OUTCOMES	<p>I know about macro- and micro nutrients, nutrigenetics and nutrigenomics, syndromes and diseases, including cancers, resulting from wrong eating habits and the basics of their nutritional treatment. I know the principles of functional foods and nutraceuticals</p> <p>CAPACITY TO APPLY KNOWLEDGE AND COMPRESSION Know how to plan population surveys and screening campaigns and promote proper nutrition, including in terms of metabolic, cardiovascular and oncological prevention, gathering an in-depth review of dietary habits, family history, physical activity and any weight variations; Know how to collect information about the use of drugs and / or dietary supplements, as well as alcohol consumption in relation to nutritional impact, to recognize the health risk factors that affect the health status</p> <p>AUTONOMY OF JUDGMENT They know the limits of their profession and when they ask for the intervention of other professional figures. They have the ability to integrate knowledge to manage complexity, even in multipathology, as well as to formulate judgments, possibly based on limited or incomplete information. Being able to evaluate the implications and results of treatments.</p> <p>COMMUNICATIVE SKILLS They have the ability to describe, disseminate and comment on the acquired knowledge, the results of the surveys carried out in communities by adapting the communicative forms to the interviewees and are able to disseminate such results and promote the changing lifestyles. They have the ability to communicate the concepts acquired in a clear and organic way. Have the ability to explain patient and family therapy comprehensively through counseling and caregiver training</p> <p>LEARNING ABILITY I am able to handle biomedical information for educational and preventive aspects in specialist areas of general and specialist medicine, such as oncology, internist, endocrinology, maternal-infantile, hygiene and surgery.</p>
ASSESSMENT METHODS	<p>Oral examination whose purpose is to verify due competences and the ability of personal synthesis concerning the program. The assessment is given in numbers (from 18 to 30). Students will have to answer orally at least two or three questions concerning the program and the texts suggested during lectures. Questions asked verify: a) acquired competences; b) ability of elaboration; c) the acquisition of adequate abilities of presentation; d) personal autonomy of judgment. Distribution of marks.</p> <p>30 – 30 cum laude: a) advanced knowledge concerning suggested topics and deep comprehension of the principles relative to the subjects studied b) advanced ability of application of acquired knowledge and full mastery of the most effective instruments to conceive a cultural analysis based on particular theoretical orientations c) correct use of the specific subjects relative to the discipline d) excellent ability to organize, in an autonomous and innovative way, topics relative to the discipline</p> <p>26 – 29: a) exhaustive and complete knowledge associated to a critical awareness b) good ability of application concerning acquired knowledge and good level of competence concerning the most effective instruments suited to make a cultural analysis on the basis of some theoretical orientations c) good competence of the specific orientations and disciplinary languages d) ability of organization due topics in an autonomous and innovative way</p> <p>22 – 25: a) knowledge of facts, principles and general concepts concerning the program b) more than basic ability of application concerning methods and instruments relative to the studied subjects c) more than basic competence of the specific orientations and disciplinary languages d) more than basic ability of organization relative to due topics</p> <p>18 – 21: a) sufficient knowledge of the main topics concerning the program to study b) sufficient capacity of application of the studied subjects c) sufficient competence of the general orientations and disciplinary languages d) sufficient ability of organization relative to due topics</p>
TEACHING METHODS	Frontal lessons

**MODULE
PHARMACOLOGY**

SUGGESTED BIBLIOGRAPHY

H.P. Rang, M.M. Dale, J. M. Ritter, R.- Flower. Farmacologia.
F. Clementi, G. Fumagalli. Farmacologia generale e molecolare.
Galli C., Gatti E., Tomassi G., Visioli F. Farmacologia e Nutrizione

AMBIT	10339-Primo soccorso
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

The aim of this course is to provide the students with knowledge about pharmacokinetics and pharmacodynamics of some drugs classes and above all the interactions between drugs and food.

SYLLABUS

Hrs	Frontal teaching
6	definition of drug. pharmacokinetic: drugs administration, absorption distribution metabolism and elimination. variability of drug response
4	Receptors, dose-response curve, drug-receptor interaction, receptor binding study, potency and efficacy, agonist and antagonist.
4	Interactions between drugs and nutrition: chemical, pharmacokinetic and pharmacodynamical interactions between drugs and food.
2	digestive system drugs
2	drugs acting on lipid metabolism
2	antidiabetic drug therapy
2	pharmacological treatment of obesity, anorexia, bulimia.
2	Drugs that interfere with perception of taste; Drugs induced malabsorption, weight gain, drugs interacting with gastrointestinal motility; drugs interfering with lipid absorption.
2	some drugs classes acting on nervous system
2	dietary supplements and antioxidants, water and fat soluble vitamins
2	ethanol: nutritional, pharmacological and toxicological features

**MODULE
MEDICAL ONCOLOGY**

Prof. GIUSEPPE BADALAMENTI

SUGGESTED BIBLIOGRAPHY

materiale didattico fornito dal docente

G. Liguri. Nutrizione e Dietologia. Aspetti clinici dell'alimentazione.

Zanichelli ME Barasi. Human nutrition. A health perspective. Hodder Arnold

I.A. Macdonald & Helen M. Roche. Nutrition & Metabolism. Blackwell Publishing

AMBIT	10351-Scienze interdisciplinari cliniche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

The aim of the course is to study the biomolecular mechanisms responsible for tumor growth of the most common tumors (colon, lung, breast etc ...) and correlations with lifestyle and nutrition.

SYLLABUS

Hrs	Frontal teaching
3	Tumor biology
3	Tumor biology: metastasis and neo-angiogenesis
3	Tumor immunotherapy
3	Tumor imaging
3	Gastro-intestinal tumors: gastric, colon and rectal cancer.
3	Gastro-intestinal tumors: pancreas, biliar tract and neuroendocrine tumor.
3	Lung cancer
3	Breast cancer
3	Nutrition and cancer (1)
3	Nutrition and cancer (1)

**MODULE
APPLIED TECHNICAL DIETARY SCIENCES 3**

Prof. MARCO GIAMMANCO

SUGGESTED BIBLIOGRAPHY

materiale didattico fornito dal docente

G. Liguri. Nutrizione e Dietologia. Aspetti clinici dell'alimentazione.

Zanichelli ME Barasi. Human nutrition. A health perspective. Hodder Arnold

I.A. Macdonald & Helen M. Roche. Nutrition & Metabolism. Blackwell Publishing

AMBIT	10347-Scienze della dietistica
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30

EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims to address the nutrition-tumor theme, and to provide information on the prescriptive mode of the diet. In addition, food consists of components that independently of micronutrients can affect the state of health through the ability to act by modifying endothelial function, a condition that shares pathophysiological moments with arteriosclerotic disease, aging, and possibly tumors. The course will therefore be a good basis for a better understanding of the other two modules that make up the IC.

SYLLABUS

Hrs	Frontal teaching
3	Food, nutrigenomics and nutraceuticals
3	Foods and nutrients
3	food classification
6	diets
4	prescribing a diet
2	cure with food
4	the EPIC study - foods and tumors
2	The case of homocysteine
3	Nutritional aspects in cancer patients