



King Saud University

College of Applied Medical Sciences

Department of Community Health Sciences

Second Semester 1432-1433

Course title and code:	CHS 431 Enteral and Parenteral Nutrition
Program in which the course is offered:	Clinical Nutrition program
Credit hours	2 hours (1 theoretical + 1 practical)
Level at which this course is offered:	8 th level
Course prerequisites:	CHS 343, Nutrition Therapy for Chronic Diseases, Level: 7
Time:	Saturday lecture: 8.00-9.00 am Sunday lecture: 8.00-9.00 am
Location:	Saturday Classroom BB6 Sunday Classroom BB17
College member responsible for the course	Nouf A.Aljawini
<u>faculty information</u>	
Office Number:	9 A1

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Office hours:	Saturday - Sunday (10am -12pm)

Course Description:

Study of the enteral and parenteral nutrition taking into consideration the nutritional requirements of patients and the conditions that might affect these requirements.

Course Objective:

At the end of the course the students should be able to:

- ✓ Identify and manage patients in need of nutritional support.
- ✓ Choose the suitable enteral formulations for different conditions.
- ✓ Calculate the nutritional requirements and feeding rate for different conditions.
- ✓ Identify and treat complications of enteral and parenteral feeding.

Grading Information

First Midterm	(15 Marks)
Second Midterm	(15 Marks)
Quiz	(5 Marks)
Practical	(25 Marks)
Final Exam	(40 Marks)

Letter grades for the course will be as follows:

A = 90-94%	A+ = 95-100%
B = 80-84%	B+ = 85-89%
C= 70-74%	C+ = 75-79%
D = 60-64%	D+ = 65-69%
F = less than 60%	

List of Topics		Date	Contact hours
1st week	<u>Syllabus</u>	28/1/2012 29/1/2012	1
2nd week	<u>Enteral Nutrition for Adults</u> <ul style="list-style-type: none"> ▪ Introduction ▪ Indications & Contraindications ▪ Advantages of Enteral Feeding vs. Parenteral Feeding ▪ Different Methods of Administration (indications, advantages, & disadvantages). 	4/2/2012 5/2/2012	1
3rd week	<ul style="list-style-type: none"> ▪ Formula Classification System Delivery Methods	11/2/2012 12/2/2012	1
4th week	<ul style="list-style-type: none"> ▪ Medication administration ▪ Monitoring Parameters ▪ Transitional Feedings ▪ Formula Composition ▪ Osmolality the Use of Oral Nutrition Supplements	18/2/2012 19/2/2012	1
Quiz 1 Wednesday 22/12/2012 Time: 11a.m			
5th week	EN Complications	25/2/2012 26/2/2012	1
First Midterm Exam Wednesday 29/2/2012 Time 11 am			

6th week	EN Complications (Mechanical, Infectious, Gastrointestinal)	3/3/2012 4/3/2012	1
7th week	EN Complications (Gastrointestinal, Metabolic)	10/3/2012 11/3/2012	1
8th week	<u>Parenteral Nutrition</u> <ul style="list-style-type: none"> • History of TPN • Definition, objectives, indications, contraindications. • Osmolarity, Components of PN Formulas, Micronutrients, Macronutrients. 	17/3/2012 18/3/2012	1
Spring Break			
9th week	<ul style="list-style-type: none"> • Methods of Administration • Contraindications to PPN • Monitoring Guidelines • Types of Infusion • Calculation of NPC:N Ratio 	31/3/2012 1/4/2012	1
10th week	<u>Parenteral Nutrition</u> <ul style="list-style-type: none"> ▪ Sepsis and Infection ▪ Wound Healing 	7/4/2012 8/4/2012	1
Quiz 1 Wednesday 11/4/2012 Time: 11a.m			
11th week	<u>Nutrition Support of Specific State</u> <ul style="list-style-type: none"> ▪ Inflammatory Bowel Disease ▪ Renal Disease 	14/4/2012 15/4/2012	1

	Liver Disease		
12th week	<u>Nutrition Support of Specific States</u> <u>Cancer</u>	21/4/2012 22/4/2012	1
Second Midterm Exam Wednesday 25/4/2012 Time 11 am			
13th week	<u>Nutrition Support of Specific States</u> <u>Cancer</u> Diabetes/Glucose Intolerance ▪ Immune Enhancing Diets ▪ Pulmonary Failure /ARDS ▪ Parenteral Versus Enteral Feeding in critical ▪	28/4/2012 29/4/2012	1
14th week	Revision	5/5/2012 6/5/2012	1

Text Books:

-The A.S.P.E.N Nutrition Support Practice Manual 2nd Edition. American Society for Parenteral and Enteral Nutrition.

-Charney, P., Malone, A. (2006) ADA Pocket Guide to Enteral Nutrition. American Dietetic Association.

-Charney, P., Malone, A. (2007) ADA Pocket Guide to Parenteral Nutrition. American Dietetic Association

Rules and Regulations:**Attendance:**

Students will be expected to attend all scheduled classes.

Attitude:

Students will be expected to have a positive attitude.

Lectures rules and regulations:

- *Turn your cell phone off or keep it in.*
- *All cell phones and tablets must be in your bag.*
- *Arrive on time.*

Exams and Quizzes:

- ❖ *All exams and Quizzes will be in the planned date.*
- ❖ *No repetition of the quizzes for any excuse.*
- ❖ *No repetition of midterms unless the approval of the exam committee.*