Comprehensive Health Care II Curriculum

(Yearly Course 30 contact hours)

Course contents Course Objectives

This course is dedicated to third year medical students in the pre-clinical stage.

Course contents:

The course introduces the basic knowledge in nutrition and nutritional disorders and basic bio-statistical methods and its applicability in medical research.

In nutrition: nutritional epidemiology, diet and cancer, nutritional assessment, food hygiene, food additives, malnutrition with special emphasis on obesity, nutritional advices to the vulnerable groups, and the prevalent nutritional problems in KSA.

In Biomedical statistics: Role of statistics in medical researches, data summarization, probability theory and sampling distribution, types and techniques of sampling methods, inferential statistics and hypothesis testing, correlation and regression.

Course Objectives:

By the end of the course 3rd year medical students can:

In the nutrition section:

- Identify the uses and limitations of nutritional epidemiology.

- Define, appraise, and interpret the different tools used in nutritional assessment.
- Define the role of diet and nutrition in the causation and prevention of different diseases including cancer.
- Identify the types, causes and management of malnutrition including obesity.
- Define vulnerability and provide basic advocacy for those who nutritionally vulnerable.

In medical statistics section:

- Identify the role of biostatistics in medical researches.
- Define and identify the different level of measurements and variables.
- Define, enumerate, and identify the different methods of data summarization in the form of tables, graphs and numeric measures of central tendency and dispersion.
- Identify the normal distribution and the probability theory underlies.
- Define the role and application of inferential statistics and the basic steps of hypothesis testing.
- Identify the different types of test of significance and the indication of which with relevance to the type of variables and descriptive statistics provided.
- Define the assumptions and applications of correlation and linear regression analysis.