

Module Title: Urine and Body Fluid Analysis
Module Code: AM0305
Maximum number of students: 12
Total ECTS credits: 2
Notional learning hours: (a) Contact time – 10h (b) Private study – 40h Format of teaching: Lectures 6h Laboratories or Praticals 4h Other 0h Teaching Strategy: Formal lectures in 120 min timetable
Convener: Isabel Cavaco
University: University of Algarve
Language of tuition: English
Module Description – The Purpose of aims <ol style="list-style-type: none"> 1. To motivate students for the importance of study and examination of the urine and other body fluid, as an important laboratory function 2. To introduce the concepts for the collection and transport of urine and body fluids, numeration and identification of cellular components. 3. To introduce the recommendations for standardizing and guidance for qualitative and quantitative assessment of body fluids.
Learning Outcomes: At the end of the module, the learner is expected to be able to: <ul style="list-style-type: none"> • Justify clearly the importance of pre-analytic, analytic and post-analytic steps. • Appropriate laboratory examination of these fluids for the diagnosis numerous diseases. • Accurate test interpretation depends on appropriate specimen collection, turnaround time, physician/laboratory communication and reliable reference values. • Analysis of body fluids in the clinical laboratory: <ol style="list-style-type: none"> 1. Urine 2. Cerebrospinal fluid 3. Synovial fluid 4. Pleural fluid 5. Pericardial fluid 6. Peritoneal fluid
Summary of Course Content: This module aims to motivate the learners that clinical data derived from proper body fluid procedures and accurate test results are essential to make appropriate diagnosis and administer the proper therapy to patients. Provide users with recommendations for the collection and transport of body fluids,

procedures for the numeration and identification of cellular components and guidelines for the qualitative and quantitative assessment of body fluids.

Transferable Skills Taught:

Lectures, case studies and laboratory practices.

Assessment Methods:

The assessment of the module will be conducted by a written test.

Assessment criteria:

The examination criteria will be the ECTS gradin scale, according to the grading system in EMQAL.

Resource Implications of Proposed Solutions:

Lecture notes will be available for students. Will be included textbooks.

Recommended reading:

- Hematology: Principles and procedures, Barbara A Brown.
- Hematology, Clinical and laboratory practice, Bick, Bennett, Brunes, Cline, Kass, Murano, Shoheit; Mosby
- Urinalysis and body fluids, Susan King Strasinger; F.A Davis Company
- Henry's Clinical Diagnosis and Management by Laboratory Methods, 21 st edition; Saunders
- Clinical and Laboratory Standards Institute H56-A