

**Clinical Security and Medical Error Management**

Code: 105018  
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	4	0
2502442 Medicine	OT	5	0
2502442 Medicine	OT	6	0

### Contact

Name: Pedro Tudela Hita  
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### Use of Languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

### Teachers

David Pares Martínez

### Prerequisites

Pre requirements

It is necessary that the student has basic clinical knowledge of medical and surgical pathology, and general hospital functioning.

### Objectives and Contextualisation

Objectives and contextualization

It is an optional subject taught in the fourth, fifth and sixth year of the Degree in Medicine.

The general objective is the basic knowledge of the fundamental concepts in clinical safety, and l'action in relation to this in the hospital environment.

### Competences

- Medicine
- Communicate clearly, orally and in writing, with other professionals and the media.
  - Demonstrate understanding of the causal agents and the risk factors that determine states of health and the progression of illnesses.
  - Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.

- Indicate the basic diagnosis techniques and procedures and analyse and interpret the results so as to better pinpoint the nature of the problems.
- Indicate the most suitable treatment for the most prevalent acute and chronic processes, and for the terminally ill.
- Recognise the basic elements of the medical profession as the result of an evolving, scientific, social and cultural process, including ethical principles, legal responsibilities and patient-oriented professional practice.
- Use information and communication technologies in professional practice.

## Learning Outcomes

1. Analyse the importance of nosocomial infections on health outcomes for hospitalised patients.
2. Assess the relationship between efficacy and risk in the main therapeutic interventions.
3. Assess, ethically and legally, the impact of nosocomial infections.
4. Communicate clearly, orally and in writing, with other professionals and the media.
5. Describe the person as a multidimensional being in which the interplay of biological, psychological, social, environmental and ethical factors determines and alters the states of health and disease and their manifestations.
6. Explain ethical, legal and technical features and those of confidentiality related to patient documentation.
7. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
8. Identify imbalances in body weight and nutritional states.
9. Indicate the basic complementary examinations for interpreting the manifestations of the illness in the different organs and systems of the human body.
10. Use information and communication technologies in professional practice.

## Content

### LEARNING ACTIVITIES

#### 1. Directed activities

##### Theoretical-practical class

Key concepts in clinical safety. 2 h

Diagnostic errors 2 h

Medication errors 2 h

Safe surgery 2 h

Good practices for the prevention of errors. 2 h

Importance of Communication 2 h

Key elements; identification, falls, documentation. 1 hour

Notification systems. Root-cause analysis. 2 h

Medical error management. Second victims. 2 h

#### 2. Supervised activities

External practice in the environment of the Institute for Healthcare Improvement.

<http://www.ihl.org/education/IHIOpenSchool/Chapters/Groups/LAC/Pages/Cursos-en-L%C3%ADnea.aspx>

Composed of different training modules. At the end of each module there is an evaluation.

### 3. Autonomous activities

Comprehensive reading of texts and articles, study and realization of schemes, summaries and conceptual assimilation of the contents. Preparation of presentations and deliveries.

## Methodology

The general norms of the subject are described here. The final organization regarding calendar, exam dates and distribution of groups will be specified on the first day of class through the teachers.

General methodology:

Estimated hours of the subject: 75 (3 ECTS)

Directed (20%): 15 h

Theoretical classes with presentation of representative clinical cases.

Supervised (20%): 15 h.

External practice in the environment of the Institute for Healthcare Improvement.

Composed by different formative modules, with an evaluation.

Autonomous work (55%): 41 h.

Bibliographic and documentary queries. Realization of schemes and summaries.

Evaluation (5%): 4 h.

Departamento(s) responsable(s):

Responsable de Facultat: Manuel Monreal Bosch ([mmonreal.germanstrias@gencat.cat](mailto:mmonreal.germanstrias@gencat.cat))

Responsables UDGTiP

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## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Directed Teaching Typologies Theoretical classes.	15	0.6	
Evaluation	4	0.16	
Type: Supervised			
Supervised External practice	15	0.6	
Type: Autonomous			
Bibliographic inquiries. Realization of schemes and summaries.	41	1.64	

## Assessment

### Evaluation

For the final evaluation of the subject will be taken into account:

- 1) Attendance to the classes (50%).
- 2) Multiple-choice objective tests (30%).
- 3) Supervised teaching (20%).

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance at classes	50%	0	0	4, 5, 6, 7, 10, 3
Supervised document	20%	0	0	1, 4, 5, 6, 8, 9, 10, 2, 3
Test multiple-response objectives	30%	0	0	4, 5, 6, 7, 9, 10, 3

## Bibliography

Tomás S, Chanovas M, Roquetas F, Alcaraz J, Toranzo T y Grupo de Trabajo EVADUR-SEMES. EVADUR: eventos adversos ligados a la asistencia en los Servicios de urgencias de hospitales españoles. Emergencias 2010; 22: 415-28.

Bañeres J, Orrego C, Navarro L, Casas L, Banqué M, Suñol R. Epidemiología de los eventos adversos hospitalarios en Catalunya: un primer paso para la mejora de la seguridad del paciente. Med Clin (Barc). 2014;143 Supl 1:3-10.

Tudela P, Carreres A, Ballester M. El error diagnóstico en Urgencias. Med Clin (Barc). 2017 Aug 22;149(4):170-175.

[Ladenheim R](#), [Macchiavello D](#), [Milberg M](#). Inclusión de la seguridad del paciente en la carrera de Medicina: descripción de la experiencia y percepción de los estudiantes. [Rev Calid Asist](#). 2017; 32(6):316-321.