

**MODULE DESCRIPTION (SUMMARY PROGRAM).**

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|------------------------------------------------------------|-----------------------------------------------------------|
| <b>1. Module Information Code:</b>                         |                                                           |
| • Name of the Institution and School                       | Universidad Autónoma de Nuevo León,<br>School of Medicine |
| • Name of the Learning Unit                                | Research Methodology in Health science.                   |
| • Total classroom hours for theory and/or practice.        | 45 hours.                                                 |
| • Total extra classroom hours                              | 45 hours.                                                 |
| • Course Modality                                          | Schooled.                                                 |
| • Type of academic period in which the module is offered   | Semester.                                                 |
| • Type of Learning Unit in the Curriculum                  | Compulsory                                                |
| • Curriculum area:                                         | ACFB                                                      |
| • UANL credit points                                       | 3.                                                        |
| • Date of module creation                                  | December 15, 2015.                                        |
| • Date of last amendment.                                  | March 23, 2020                                            |
| Person(s) responsible for the module design and amendments | Dr. Héctor Eloy Taméz Pérez.                              |
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## **2. Purpose(s)**

The purpose of the research methodology in health science is to develop the sense of criticism for science article by discerning among those with validity and success potential, the ones that can have a successful impact in the daily health-care methodology, As well as to know the basic steps for the implementation of a research protocol and the publication of a scientific article. In this way the student implements the scientific method in resolving medical problems with an innovative analytical and self-critical attitude in the prevention of diagnostic and treatment of diseases that are studied in different learning units. So the student develops self-learning and mindset to easy-making decisions with social responsibility, always seeking the well-being of the patient by learning and implementing the culture of institutional work by working with its medical colleagues with the help of information technologies to keep up with the advances of medicine.

## **3. Competences of the graduate profile**

### **Instrumental skills:**

1. Apply autonomous learning strategies in the different levels and fields of knowledge that allow them make appropriate and relevant decisions in the personal, academic and professional fields.
3. Use the information and communication technologies as access tools to information and its transformation in knowledge, as well as for learning and collaborative work with cutting-edge techniques that allow its constructive participation in society.
5. Employ logical, critical, creative and proactive thinking to analyze natural and social phenomena that let them make relevant decisions in its area of influence with social responsibility.

### **Personal and social interaction skills:**

10. Intervene in front of the challenges of contemporary society at the local and global level with a critical attitude and human, academic and professional commitment to help consolidate the general wellness and sustainable development.

### **Integrative skills:**

14. Resolve personal and social conflicts in accordance with specific techniques in the academic field and their profession for the proper decision making.
15. Achieve the adaptability required in uncertain professional and social environments of our time to improve living conditions.

Specific competences of the graduate profile that contributes to the learning unit:

2. Solves clinical problems through deductive reasoning, interpretation of findings and definition of their nature with the aim of making decisions and determine action principles of the medical practice to follow in a responsible way, impacting individual and collective health.

7. Applies the scientific method for the resolution of medical problems with an innovative, analytic and self-critical attitude for preventing, diagnosing and treating diseases.

10. Promotes an organizational work culture for the health field, acknowledging the multidisciplinary work, respect for institutional policies and the observance of rules in order to contribute to a comprehensive treatment of patients.

#### 4. Summative Evaluation:

- Seminar
- Guided discussion
- Exam
- Course Integrative product

#### 5. Course Integrative product (signed in the sintetic program).

Scientific medical article review related to the topic of the research protocol generated.

#### 6. References.

Tamez Pérez, H. E. (2013). *El ABC de la medicina científica*. McGraw Hill México.

Sampieri, R. H., Collado, C. F., Lucio, P. B., & Pérez, M. D. L. L. C. (2015). *Metodología de la investigación*. McGraw-Hill.

Straus, S.E (2015). *Medicina Basada en la Evidencia Cómo practicar y enseñar la MBE*. Elsevier.

Bravo Toledo, R (2007). *Medicina basada en Evidencia*. <http://www.infodoctor.org/rafabravo/mbe.htm>, revisada Enero 2016.

Bioestadístico Eirl (2010). *Docencia en Investigación Cuantitativa*. <http://bioestadistico.com/>, revisada Diciembre 2015.

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