

Course for monitored education at distance: “Introduction to basic aspects of radiation physics in NM”

Adlin López*¹, Aley Palau¹, Gregorio Petrirena¹ and Ana Ivis Cárdenas¹

¹Nuclear Medicine Service, Hospital “Hermanos Ameijeiras”

*Av. San Lázaro No.704, Centro Habana,
Ciudad Habana, Cuba*

Abstract

Nuclear Medicine became a multimodality speciality, related with a lot of personnel not specialized in NM techniques: who have not training in radiation aspects. These projects try to evaluate the use of specialized multimedia product for a monitored education at distance of personnel who start to be related with Nuclear Medicine Techniques like nurses, surgeons, rheumatologists, etc.

The multimedia product included two items: Introduction to Nuclear Medicine Techniques and Basic aspects of radiation physics.

Each item contents an audiovisual conference (Power Point) and a charter (PDF): with theoretic aspects, understand verification questions and self-evaluation activities. The product need only a PC compatible with window 98 (or more advanced version), and 130MBy of memory spaced for archive.

In order to verify the effectiveness of the distance course, we tested it in 10 students: 1 nurse, 1 radio-pharmacist, 1 cardiologist, 1 neurologist, 6 technologists. After consult and clarify their doubts, a final test was applied in order to check the knowledge acquired. With 100 point of maximum store and 60 point minimum to pass, the test contented 2 types of questions: true or false choice (with 50 aspects to verify 1.5 point/ correct answer) and many correct choices (5 questions, 5 point/correct answer). The average result was 85.6 points/ students: 6 -Excellent (90-100points) , 3 -Very good (80-89points) and 1 -Good (70-79point).

The course was polled about the quality of the material and their comprehension degree, asking the student to make suggestions if were needed. The average evaluation was 94points (91-95 points). The suggestions made were: increase the number of examples and practical sequences, the understand verification questions and include monitored practical exercise.

Conclusion: the product can be useful for a monitored education at distance of personnel who start to be related with Nuclear Medicine Techniques.

Recommendation: The program should be enrich with the suggested things and extend to other important items like: radiation protection and principle of functioning of nuclear medicine equipments.

KEYWORDS: education at distance, radiation physics in nuclear medicine.

* Presenting author, E-mail: adlin@infomed.sld.cu