



NOTE PREVIEW ARTICLE

**EDUCATIONAL TECHNOLOGY IN HEALTH FOR USERS OF
HEMODYNAMICS ABOUT THE CINE-CORONARY ARTERIOGRAPHY
EXAMINATION: DESCRIPTIVE STUDY**

**TECNOLOGIA EDUCATIVA EM SAÚDE PARA USUÁRIOS DA HEMODINÂMICA SOBRE O
EXAME CINEANGIOCORONARIOGRAFIA: ESTUDO DESCRITIVO**

**TECNOLOGÍA EDUCATIVA EN SALUD PARA USUARIOS DE LA HEMODINÁMICA SOBRE EL EXAMEN
CINEANGIOCORONARIOGRAFÍA: ESTUDIO DESCRIPTIVO**

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RESUMO

Objetivo: identificar a necessidade de orientações dos usuários atendidos no serviço de hemodinâmica de um hospital universitário acerca do exame cineangiocoronariografia, criando cartilha educativa a partir de suas representações acerca do exame. **Método:** estudo descritivo e exploratório, com abordagem qualitativa, que utiliza como marco teórico as representações sociais dos usuários que serão submetidos à cineangiocoronariografia em relação ao referido exame. O cenário do estudo será o serviço de hemodinâmica do Hospital Universitário Antônio Pedro/HUAP. A produção de dados será efetuada por meio de entrevista semiestruturada. Com relação à análise, será utilizada técnica de análise de conteúdo. **Resultados esperados:** pretende-se com este estudo proporcionar assistência qualificada, com base nas necessidades de informações dos usuários do serviço de hemodinâmica que realizarão a cineangiocoronariografia, resultando em real adesão ao preparo do exame, possibilitando a utilização de tecnologias assistenciais, instrumentos necessários a prática do enfermeiro. **Descritores:** Tecnologia Educacional; Educação em Saúde; Cuidados de Enfermagem; Cateterismo Cardíaco; Humanização da Assistência.

ABSTRACT

Objective: to identify the need to guide users served at the service of hemodynamics of a teaching hospital about the cine-coronary arteriography examination, by creating an educational booklet from their representations about this examination. **Method:** this is a descriptive and exploratory study, with qualitative approach, which takes as a theoretical benchmark the social representations of users who will be subjected to the cine-coronary arteriography in relation to the aforesaid exam. The study setting will be the service of hemodynamics of the University Hospital Antônio Pedro/HUAP. The data production will be held through semi-structured interviews. Concerning the analysis, the content analysis technique will be used. **Expected results:** through this study, one intends to provide a qualified care, with basis on the needs for information of users of the service of hemodynamics who will undergo the cine-coronary arteriography, resulting in actual adherence to the preparation of the examination, enabling the use of health care technologies, which are tools required to the practice of the nursing professional. **Descriptors:** Educational Technology; Health Education; Nursing Care; Cardiac Catheterization; Humanization of Care.

RESUMEN

Objetivo: Identificar la necesidad de orientaciones de los usuarios atendidos en el servicio de hemodinámica de un hospital universitario acerca del examen de cineangiocoronariografía, produciendo un libreto educativo a partir de sus representaciones sobre el examen. **Método:** estudio descriptivo y exploratorio, con enfoque cualitativo, lo cual utiliza como marco teórico las representaciones sociales de los usuarios sometidos a cineangiocoronariografía con relación al citado examen. El escenario de estudio será el servicio de hemodinámica del Hospital Universitario Antônio Pedro/HUAP. La producción de datos será desarrollada a través de entrevista semi-estructurada. Con relación a la análisis, la técnica de análisis de contenido será utilizada. **Resultados esperados:** este estudio se centra en proporcionar una asistencia de calidad, basado en las necesidades de información de los usuarios del servicio de hemodinámica que realizarán el examen de cineangiocoronariografía, lo que resulta en la adhesión efectiva a la preparación del examen, que permitirán el uso de tecnologías asistenciales, las cuales son herramientas necesarias para la práctica del profesional de enfermería. **Descritores:** Tecnología Educativa; Educación en Salud; Cuidados de Enfermería; Cateterismo Cardíaco; Humanización de la Asistencia.

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INTRODUCTION

The development of technology and the improvement of current medical therapeutic techniques have allowed the accomplishment of the cine-coronary arteriography as the main diagnostic method for the heart diseases, especially in relation to acute myocardial infarction. Despite it is a diagnostic examination conducted on a large scale and the information is available in the communication media, users are still scared, anxious and doubtful when they come to undergo it.

Currently, placed in the service of hemodynamics of a university hospital, situated in the municipality of Niterói, as an on-duty nurse, I receive users daily for scheduling and completion of the cine-coronary arteriography examination, and the way in which they present themselves before the completion of this procedure has concerned me, with several questions and fears, thereby leading me to questionings like: "what do they know about cine-coronary arteriography? Do they know this procedure and its preparation"?

The service of hemodynamics is responsible for scheduling and preparation of the client for the cardiac and hemodynamic examinations. In order to accomplish these examinations, several types of information are provided. The scheduling is performed by an employee of the sector. On the day of the scheduled examination, the patient is received and prepared for the examination. Next, one conducts the investigation of the history of the client, confirmation of the preparation, checking vital signs and puncture of peripheral venous access.

Studies show that customers scheduled for any invasive diagnostic examination have the same concerns: anxiety and stress related to the threat of physical integrity and well-being, as well as the implications resulting from the diagnostic result.² The role of the nursing professional is to guide, teach, evaluate and follow-up with basis on reliable data, thereby enabling an appropriate care of the customer.³

It is necessary to promote actions in relation to the humanization of the hospital care, which refers to the welcoming as an ethical stance.⁴ It is an initiative that also intends to enlarge the relationships between health professionals and customers; of professionals to each other and, consequently, with the community, which leads to the appreciation of the human and subjective

dimensions, present in health care, aimed at quality and efficiency of services provided; create a physical space capable of welcoming, listening and giving answers.⁵

Through this study, one intends to develop an educational booklet targeted to users of hemodynamics subjected to the cine-coronary arteriography examination for a qualified care with basis on their needs for guidance. The booklet might be considered as the product of health care technology, which includes the development of a technical-scientific knowledge resulting from investigations, applications of theories and the everyday experience of professionals and clientele, in order to allow care and adherence. In this context, the following questions were elaborated:

What is the knowledge and profile of the users served in the service of hemodynamics regarding the cine-coronary arteriography examination?

What are the needs for information and guidance on health of users served in this service about this examination?

What are the nursing actions necessary for the adherence of the user and decrease of its stress, anxiety and fear?

OBJECTIVES

◆ General

- To identify the need for guidance of users served in the service of hemodynamics of a teaching hospital about the cine-coronary arteriography examination, by creating an educational booklet from their representations about this examination.

◆ Specifics

- To describe the knowledge and beliefs of users of the service of hemodynamics of a teaching hospital about the cine-coronary arteriography examination;

- To identify the needs for information and guidance on health of users of the service of hemodynamics of a teaching hospital about the cine-coronary arteriography examination;

- To develop an educational booklet targeted to users of the service of hemodynamics of a teaching hospital about the cine-coronary arteriography examination.

METHOD

In order to accomplish this exploratory and descriptive study, the qualitative approach was chosen, which is not concerned about quantity, but in providing explanations the intricacies of social relationships, considered as essence and result of creative, emotional

and rational human activity, which might be understood through the everyday life, the experience and the explanation of the common sense.

The study setting will be the laboratory of hemodynamics, located on the 2nd floor of the HUAP, linked to the Fluminense Federal University, situated at the Marques de Paraná Street, 303 / Downtown - Niterói, Rio de Janeiro / Brazil, ZIP Code 24033-900 and phone numbers 2629-9000.

The inclusion criteria are: users of both sexes, aged over 18 and who will undergo the cine-coronary arteriography examination for the first time, treated in outpatient units, who are under medical care. Users subjected to the examination at stake in urgency character, children and those who are mentally compromised or disabled will be excluded.

The first phase will consist of a bibliographic review with a survey in electronic databases in order to gather and synthesize research findings in a systematic and orderly manner to provide the depth of the theme, by using the Medical Subject Headings (MESH): 'Health Education', 'Humanization of Care', 'Cardiac Catheterization' and 'Nursing Care'. The second phase will be the data collection, through field research, from the semi-structured interview technique. Finally, the third phase will be the development of the educational technology intended for users of the service of hemodynamics.

The research project was submitted to the Research Ethics Committee of the Antônio Pedro University Hospital, being that it was approved under the CAAE n° 14372513.9.0000.5243, with the Opinion n° 429.165, on October 18th, 2013, in compliance with the Resolution 466/2012 of the National Health Council, which establishes the regulatory standards for research involving human beings. The users who want to participate in this study will have to sign the Free and Informed Consent Form (FICF).

The study is in its initial stage. The results of this study will enable the development of a script with the guidance on the care required for the accomplishment of the examination at stake, taking into account their cultural values and health-disease context.

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