

# Development and validation of instructional design for clinical nursing care for neonates with congenital heart defects in maternities



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## Biography

Simone Magalhães is a Registered Nurse graduated in the State University of Ceará – UECE (1996). Holds a doctorate and a master's degree in Clinical Care in Nursing and Health from UECE. Specialist in Cardiovascular Nursing (UECE) and specialist in Hospital Administration and Quality Management in Health Systems (UECE / UNICEI). Specialist by the International Course on Quality in Health and Patient Safety (ENSP / FIOCRUZ). Member of the Study and Research Group on Child and Adolescent Health Care (GEPCCA) linked to UECE / CNPq. Currently working at the Walter Cantídio University Hospital (HUWC) at the Federal University of Ceará (UFC) in the Surgical Center area and at the Gonzaga Mota - Messejana District Hospital (HDGMM) at the neonatal unit. Member of the thematic group of the Nucleus of Patient Safety of the HUWC. Acts as a preceptor of the Multiprofessional Residency in Hospital Health Care at UFC and with students of Internship I (hospital area) of the Nursing Course at the Faculty of Pharmacy, Dentistry and Nursing at UFC. Teaches at the Metropolitan College of Big Fortaleza (FAMETRO), in the Specialization Course in Nursing in Intensive Care, in the Process of caring for patients in situations of Transplants. Has experience in transplants (liver, cardiac, kidney and corneal), with an emphasis on cardiac surgery.

## Abstract

The use of technology in Education is an irreversible tendency. Virtual learning environments (AVA) are tools that favor knowledge exchange. This is an applied research, with a methodological design, which the objective was to develop and validate an instructional design for nursing clinical care for neonates with congenital heart diseases in maternity hospitals, through Distance Education (EaD), other technology that helps professionals to increase their knowledge. Methodological delineation: Initially, consultations were made with documents and literature available for the elaboration of didactic content of educational technology. After, the virtual content of the instructional design was integrated to an AVA. Subsequently, the technology was evaluated by nine expert judges, working in different areas. Following internal validation, the external validation of the instructional design was carried out, with the application of an online course on nursing care to neonates with congenital heart diseases in maternity hospitals. The sample consisted of 37 nurses, who work in the neonatal units of the four largest maternity in Fortaleza. The nurses completed the course, including initial and final assessment. Results: Internal validation demonstrated a 91% agreement measure for technology, attributed by specialists in Nursing, Education, EAD and Design. The judges specialized in Informatics, agreed on 70% regarding the technology. Together, the expert judges obtained 85% agreement. Regarding external validation, the Student's t test revealed statistically significant differences among the course members' knowledge, demonstrated through the pre-test results and post-test, proving the effectiveness of the educational intervention implemented. Conclusion: The instructional design is valid and capable of increasing nurses' cognitive knowledge. The exchange of knowledge among professionals from different areas brought quality and improved the proposed technology.

## Publication

Neonatal nursing care of the infant with congenital heart disease: an integrative review.

Characterization of Organ Donors to the Liver Transplant in the State of Ceara: Contribution to Capture Liver

Profile of newborns undergoing surgical correction of persistent ductus arteriosus at the bedside

Instructional Design for Nursing Care to Neonates with Congenital Heart Defects

Expansion of nursing education in Brazil: historical evidence and perspectives of practice



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