

## Impact of a Training Course in Cardiopulmonary Resuscitation for Primary Care Professionals

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**Abstract :** Background: In Brazil, primary health care (PHC) system has developed with multidisciplinary teams in facilities located in peripheral areas, as the entrance doors for all patients. So, professionals must be prepared to deal with patients with simple and complex problems. Objective: To evaluate the knowledge and the skills of physicians and nurses of PHC on cardiorespiratory arrest (CRA) and cardiopulmonary resuscitation (CPR) before and after training in Basic Life Support. Methods: This is a before-and-after study developed in a Simulation Laboratory in Montes Claros, Brazil. We included physicians and nurses randomly chosen from PHC services. Written tests on CRA and CPR were carried out and performances in a CPR simulation were evaluated, based on the American Heart Association recommendations. Training practices were performed using special manikins. Statistical analysis included Wilcoxon's test to compare before and after scores. Results: Thirty-two professionals were included. Only 38% had previous courses and updates on emergency care. Most of professionals showed poor skills to attend to CRA in a simulated situation. Subjects showed an increased in knowledge and skills about CPR after training (p-value=0.003). Conclusion: Primary health care professionals must be continuously trained to assist urgencies and emergencies, like CRA.

**Keywords :** primary health care, professional training, cardiopulmonary resuscitation, cardiorespiratory, emergency

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