

Environmental comfort conditions in intensive care units (ICU) of hospitals in João Pessoa, Paraíba, Brazil

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This study aims to evaluate environmental comfort conditions which are submitted to health professionals in the intensive care unit of the city of João Pessoa-PB. Thus, we studied five ICUs of public hospitals, which were evaluated in the heat, noise and lighting. Measurements were made over a period of three consecutive days in three shifts for each ICU. For the analysis of thermal comfort used, a meter heat stress which led to the globe temperature, dry bulb and wet bulb. The PMV and PPD indices were calculated according to ISO 7730/94. The sound pressure levels were obtained using a decibel meter, and acoustic analysis was based on NBR 10152/87. The illuminance was obtained through a light meter, and further analysis was based on NBR 5413/92. It was found that some ICU professionals were subjected to inadequate levels of heat. The noise levels and lighting can also be found outside the range established by the regulations adopted in all units studied. Much of the staff said she had symptoms related to stay in place as a result of environmental conditions which are submitted. However, they stated that it has not hampered his ability to work for them.

Biography

Luiz Bueno da Silva, has a degree in Science and Mathematical and a M.Sc. on Production Engineering. Since 2001, he also holds a Ph.D. in Production Engineering from the Federal University of Santa Catarina. He did Post-doctoral studies at the Federal University of Pernambuco. He is Associate Professor in the Production Engineering Department, at the Federal University of Paraíba, where he coordinates the Comfort, Efficiency and Safety at Work Research Group, the Laboratory of Applied Quantitative Methods and he is researcher at the Analysis Laboratory of Work. He authored more than 200 papers in international journals and conference proceedings.