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### **Assessment of nurses' knowledge and interventions regarding oxygen therapy and related complications in Beirut hospitals**

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**Field of Research:** Targeted therapy in cancer

Oxygen therapy is the administration of oxygen as a medical intervention, which can be for a variety of medical conditions. Patients can be harmed by receiving too little or too much oxygen. In addition, assessment of need for oxygen in most cases is a nursing responsibility. Therefore, the aim of this study was to assess knowledge and practice of nurses regarding oxygen therapy. This is a quantitative descriptive, hospital-based study conducted between June 2016 and August 2017 on a convenient sample of 87 participants working in several different departments. The study covered 87 nurses in three hospitals; standard closed-ended questionnaire was used to collect the data that considered of 56 questions: 11 questions that focus on the demographics of the participants and 45 questions about clinical data divided into clinical part I, II, and III where clinical part I was about nurses' knowledge regarding assessment of oxygen therapy, clinical part II was about nursing interventions pre, intra and post-oxygen therapy and clinical part III was about nurses' awareness related to the complications of oxygen therapy. The current study showed that 9 out of 87 participants had high level of awareness (10.3%), 14 had moderate level of awareness (16.1%) and 64 had low level of awareness (73.6%) regarding the part related to clinical data. Moreover, the clinical data was divided into 3 parts where the awareness of clinical part I about nurses' knowledge regarding assessment of oxygen therapy was (55.1%) which is low level of awareness; whereas, the awareness of nurses related to clinical part II about nursing interventions pre, intra & post-oxygen therapy was (45.11%) which is low level of awareness. Also, the awareness of nurses related to the complications of oxygen therapy was (77.2%). Using P-Value and Chi-Square test statistical results revealed that the clinical data part I related to nurses' knowledge regarding assessment of oxygen therapy ( $0.004 < 0.05$ ) had relation with the awareness of the nurses. In addition, nursing interventions pre, intra & post-oxygen therapy with P-Value (0.034) revealed a strong relation with nurses' awareness. Moreover, results indicated that nurses' awareness is related to the complications of oxygen therapy. Future recommendations were discussed.

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