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THE EFFECTIVENESS OF BONE PROCUREMENT WORKSHOP IN IMPROVING KNOWLEDGE AND SKILL OF ORTHOPAEDIC SURGEONS AND PARAMEDICS

Suhaili Mohd¹, Norimah Yusof¹, Lai LL¹, Hossain MG², Saravana Ramalingam¹, Suzina SA Hamid³, Ng Wuey Min¹, Azura Mansor^{1*}

¹Department of Orthopaedic Surgery (NOCERAL), Faculty of Medicine, University of Malaya, Lembah Pantai, Kuala Lumpur, 50603, Malaysia.

²Department of Statistic, University of Rajshahi, Rajshahi-6205, Bangladesh

³Tissue Bank, School of Medical Science, Universiti Sains Malaysia, 16150 Kubang Kerian, Kelantan, Malaysia

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*Corresponding author:

Azura Mansor

Email:

azuramansor@um.edu.my

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SUMMARY

Bone allograft procurement must be performed by trained personnel. Improper handling during procurement will lead to contamination hence jeopardizing quality of the procured bones and expose bone recipients to risks of infection in post-operative phase. Bone procurement workshop has been organised every 2 years by Malaysian Association of Cell and Tissue Banking (MACTB) since 2013 to improve knowledge and enhance skill of personnel who has been or will be involved in bone procurement. This study evaluated the effectiveness of the workshop contents as well as teaching materials by assessing the knowledge on bone procurement among the participants before and after the workshop. Bone procurement workshop was held for 2 days in 2017 for doctors and paramedics. The knowledge on bone procurement was evaluated in pre- and post-assessments by answering self-administered questionnaire before and after the workshop, respectively. A total of 50 attended the workshop however only 15 (55.6%) doctors and 12 (44.4%) paramedics completed the assessments. Overall, the mean total score for the post-assessment (61.4%) was significantly higher ($p < 0.05$) than that of the pre-assessment (32.2%). The mean values of correct responses for the post-assessment was significantly higher ($p < 0.05$) than that of the pre-assessment in all five topics given during the workshop, similarly in the respective group of the doctors and paramedics. In the pre-assessment, the doctors had the highest score in Surgical Approach & Reconstruction (50%) while the paramedics in Donor Screening & Selection Criteria (33.3%). In the post-assessment, the doctors managed to score the highest in Donor Screening & Selection Criteria (70%) while the paramedics in Packaging & Transportation (65.8%). The workshop was effective in increasing knowledge of the participants which will be useful in enhancing their skill when they do bone procurement. The assessments convinced that the workshop can qualify the participants as trained personnel in bone procurement.