البحث الرابع

عنوان البحث باللغة الإنجليزية:

Value of Lung Ultrasound in Predicting Intensive Care Unit Length of Stay after Adult Cardiac Surgery: A Prospective Observational Study.

نوع البحث:

بحث مشترك منشور مشتق من رسالة علمية و سبق تقييمه في لجنة ترقية د. مهدي أحمد عبدالهادي لدرجة استاذ مساعد الدورة (14) بتاريخ 2023/11/17 وتم تقييمه جيد و حصل على 73.33%.

المشرفين على البحث حسب الترتيب:

د. محمد أحمد حامد، د. ماجد لبيب بولس، د. رنا أحمد عبدالغفار، د. محمد حسن رجب د. مهدي أحمد عبدالهادي.

مكان و تاريخ النشر:

ملخص البحث الرابع باللغة الإنجليزية:

Background: The lung ultrasound score was predictive for prolonged intensive care stay in pediatric cardiac surgery, so we evaluate the role of the lung ultrasound score in predicting the length of postoperative intensive care stay after adult cardiac surgeries.

Methods: Our study collected data from 191 adult patients admitted to the ICU following elective cardiac surgery. Lung ultrasound examinations were done after 12 hours of ICU admission, and six lung areas were examined on each side, scoring each area. The primary outcome is to find the association between the total LUS score and the ICU length of stay in days.

Results: We found a strong correlation between LUS total score and prolonged intensive care stay (more than 3 days) with a median of 3 and an IQR of 3 in patients with short ICU stay compared to a median of 6.5 and an IQR of 8 in patients with prolonged ICU stay with p-value less than 0.001. The total LUS score was also significant when implemented as a continuous variable with other predictors in the multivariate logistic regression model with an adjusted odds ratio of 1.66 and a p-value of <0.001.

Conclusion: the postoperative total lung ultrasound score after cardiac surgery is helpful in the Prediction of prolonged intensive care stay and hospital stay as there is a strong correlation between both.