

عنوان مقاله:

COMPARING THE COMPLIANCE OF BRAIN CT SCAN INTERPRETATIONS OF EMERGENCY MEDICINE PHYSICIANS WITH RADIOLOGISTS REPORTS

محل انتشار:

چهاردهمین کنگره سالانه طب اورژانس ایران (سال: 1398)

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خلاصه مقاله:

Background and Aim : Since access to radiologists at any time of a day is not possible in all health centers, the ability to evaluate and interpret brain CT scans is necessary for emergency medicine physicians. The aim of this study is to compare the efficacy and functionality of brain CT scan interpretation of the emergency medicine team. Methods : In this observational, analytical and sectional study, brain CT scans of 150 patients with head trauma were examined and compared during six months in Hashemi Nejad hospital. Emergency physicians have recorded their interpretations of the disease after that Radiologist recorded their diagnosis by using PACS system simultaneously or after a short time. To specify the degree of compliance of these CT scans interpretations, the kappa coefficient was used. Results : Reports of Brain CT scan by Emergency physicians consistent with the radiologist findings in 131 reports out of 150 reports (87.3%). In 19 cases (12.6%), the results were inconsistent; in 11 cases (7.3%) the findings were false negative, and in 8 (5.3%) findings were false positive. The obtained kappa coefficient was 0.7 ($P < 0.001$), which indicates that the agreement was acceptable. Conclusion : The results indicate the acceptable skill of emergency physicians in the interpretation of brain CT scans. However, due to its high sensitivity and to minimize errors in clinical interpretation, teaching basic concepts of radiology to emergency physicians by professors of medicine or radiologist seems necessary.

کلمات کلیدی:

Brain CT Scan – head trauma- Emergency medicine

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