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TeleStroke

Telestroke is well proven as a valid tool for acute stroke assessment and has been utilized successfully to manage patients remotely in many parts of the world, though it is underutilized in the Middle East and North Africa region. Given the challenges associated with the COVID-19 pandemic, such as risk of physician exposure to infection, implementation of a telestroke system is critical to provide consultant stroke physician coverage ¹⁾.

TeleStroke (TS) considerably improves quality of stroke care (for instance, by increasing thrombolysis) and may be valuable for the management of intracranial hemorrhages in rural hospitals and hospitals lacking neurosurgical departments, given that surgical/interventional therapy is only recommended for a subgroup of patients.

The accuracy of diagnosing stroke in intravenous thrombolysis (IVT)-eligible patients evaluated via TS is similar to evaluations at the John Nasseff Neuroscience Institute, United Hospital at Allina Health, St. Paul, MN, United States. Continued efforts should be made to minimize exposure of stroke mimic (SM) patients to IVT in both settings ²⁾.

The aim of a study was to analyze the frequency, anatomical locations of intracranial hemorrhage, risk factors, and the proportion of patients transferred to specialized hospitals. We evaluated teleconsultations conducted between 2008 and 2010 in a large cohort of patients consecutively enrolled in the Telemedical Project for Integrated Stroke Care (TEMPiS) network. In cases in which intracranial hemorrhage was detected, all images were re-examined and analyzed with a focus on frequency, location, risk factors, and further management. Overall, 6187 patients presented with stroke-like symptoms. Intracranial hemorrhages were identified in 631 patients (10.2%). Of these, intracerebral hemorrhages were found in 423 cases (67.0%), including 174 (41.1%) in atypical locations and 227 (53.7%) in typical sites among other locations. After 14 days of hospitalization in community facilities, the mortality rate in patients with intracranial hemorrhages was 15.1% (95/631). Two hundred and twenty-three patients (35.3%) were transferred to neurological/neurosurgical hospitals for diagnostic workup or additional treatment. Community hospitals are confronted with patients with intracranial hemorrhage, whose management requires specific neurosurgical and hematological expertise with respect to hemorrhage subtype and clinical presentation. TeleStroke networks help select patients who need advanced neurological and/or neurosurgical care. The relatively low proportion of interhospital transfers shown in this study reflects a differentiated decision process on the basis of both quidelines and standard operating procedures ³⁾.

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