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## Evaluation of GRADIENT Echo (1,5 tesla) Sequence in Patients with CVA that Occurred up to 72 Hours

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Article Info	ABSTRACT
<i>Article type:</i> Original article	<ul> <li>Background and Aim: based on various studies , GRE (gradient echo)(3 TESLA) can detect pneumobra and also shows the association of SVS with cardiac origin in GRE t2*(according totransesophageal echo),so we intend to consider the ability of GRE with 1.5 Tesla in the detection of pneumobra and also the association of SVS(susceptibility vessel sign ) with atrial fibrillation For the first time,so, we evaluated the association of SVS with atrial fibrillation in patients with stroke who have been referred within 72 hours.</li> <li>Materials and Methods: The statistical population consisted of 20 patients over the age of 18 years who referred to Valiasr Hospital in Zanjan with cva diagnosis, based on the absence of bleeding in BRAIN CT ,different MRI sequences Waere done for them.Due to the fact that this study was a pilot study, sampling method was in available sampling. Information from various BRAIN MRI sequences including DWI (diffusion-weighted imaging )/ GRE T2 * / ADC(apparent diffusion coefficient)/ T1 / T2 / FLAIR(Fluid-attenuated inversion recovery), presence or absence of atrial fibrilation and NIHSS( National Institutes of Health Stroke Scale)items were collected from clinical examination and ekg , and inserted to special chart for statistical analysis.</li> <li>Results: A total of 20 patients with ischemic stroke were enrolled in this study, the mean of the infarction area was DWI = 65ml and the mean NIHSS = 9, GRE T2 *, 50% of patients with SVS and 50% had not XS. Of the 20 patients, 35% had AF and 65% had not AF in the EKG. Of the 20 patient, 35% had subcortical lesions and 65% had not tar in the DWI sequence of RMI4 and out of 7 patients (35%) who had DWI in subcortical lesion on DWI / GRE T2 * MATCH or MISMACHT was observed and there was no DWI / GRE T2 * MATCH or MISMACHT was observed and there was no DWI / GRE T2 * MATCH or MISMACHT was observed and there was no DWI / GRE T2 * MATCH or MISMACHT was observed and there was no DWI / GRE T2 * MATCH or MISMACHT was observed and there was no DWI</li></ul>
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