Abstract

Background:

Electrocardiographic changes are well known to appear with acute cerebrovascular events.

Objectives:

To determine if QT dispersion (QTD) is increased in patients with acute stroke and if this could be related to changes in neurologic function.

Methods:

Our study conducted on 40 adult patients of both sexes (mean age 62 ± 9 years old, 42.5% male)diagnosed as acute cerebrovascular stroke after doing CT brain. QTD was calculated from admission electrocardiogram .Modified Rankin Scale was used to assess functional status after 3 months.

Results:

Patients with intracerebral haemorrhage showed higher QTD compared to ischaemic patients (67±16 msec vs 52 ± 26 msec ,P value; 0.04). Patients with prolonged QTD showed lower score on Glasgow coma scale (11.36 \pm 3.78 vs 14.53 ± 1.06 ,P value; 0.003). as well as lower functional outcome assessed by modified Rankin scale (4.64 \pm 1.41 vs 2.13 \pm 0.99,p value; 0.001). compared to these with normal QTD.

Conclusion:

QTD may be used as apredictor of functional outcome and mortality following acute neurological events.

Key words:

stroke, QT dispersion.