Evaluation of QRS voltage variability (Shora sign) as a diagnostic criteria of atrial fibrillation

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Abstract:
Aim of work
To evaluate the importance of QRS voltage variability (Shora sign) as a diagnostic criteria of atrial fibrillation as compared to the conventional ECG diagnostic criteria.

Patients and Methods
* Patient selection
This case-control study will include:
- Group 1: 200 consecutive patients presented to out-patient clinics with paroxysmal, persistent, long standing persistent or permanent AF.
- Group 2: 200 consecutive patients presented to out-patient clinics with any diagnosis rather than AF.

* Inclusion criteria
Patients will be enrolled in this study if they:
- Are 18 years old or older.
- Supply an informed consent.

* Exclusion criteria
Patients will be excluded from this study if they refuse to be involved in the study.

* Method:
After providing informed consent, all patients will be subjected to the following:
1) Proper history taking for the presence of cardiovascular risk factors:
   a. Smoking
   b. Hypertension
   c. Diabetes mellitus
   d. Dyslipidemia
   e. Family history.
2) Complete physical examination:
   a. General examination.
b. Local cardiac examination.
3) 12 lead surface ECG and rhythm strip of lead I for 6 seconds to evaluate QRS voltage changes.
4) Transthoracic echocardiography: Echocardiographic examination will be done for all patients using a 2.5 MHz mechanical transducer with the patient in the left lateral position from multiple windows. The following will be evaluated:
   a. Ejection fraction (EF) by M-mode.
   b. LV dimensions.
   c. Segmental wall motion abnormalities (SWMA) index.
   d. Valvular stenosis or regurgitation.
   e. Left atrium dimension.

Biography:
He is a cardiology resident 18 years CCU ADULT ECHO ICU , CVP , ENTUBATION , MECHANICAL VENTILATION , ARTERIAL CANNULATION ECG , TREADMILL ECG , HOLTER 24 H ECG AND BLOOD PRESSURE interested in AF researches .I found 3 new AF signs. He is going to start his full study. He is searching for excellent serious electro physiologist to join his study to do it in his center.

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