Intermitent AF in patient without apparent structural heart disease and spontaneous type 1 Brugada pattern – 2008

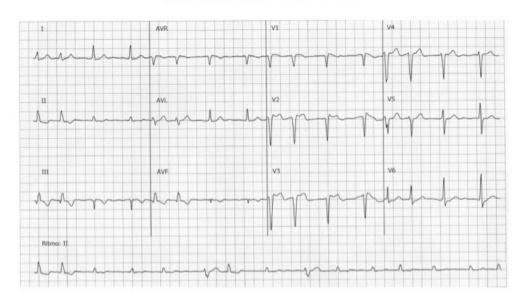
Dr. Bortolo Martini

De M. G

Male, no family history, normal 2d echo Syncope in 2006

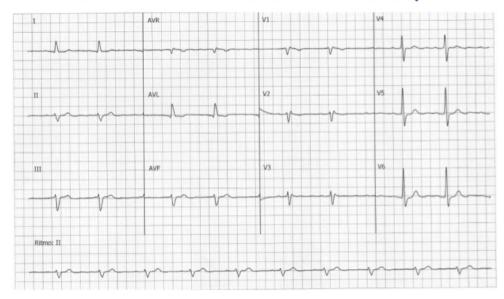
Masculino, sin história familiar de relevancia, Eco normal hace 2 dias Antecedente de síncope 2 años atrás.

19 november 2008 came to ED because of palpitations El 19 de noviembre de 2008 se presenta al departamento de emergencias con queja de palpitaciones y se realiza este ECG



20 november 2008

ECG realizado el 20 de noviembre un dia después.



Question Pregunta

- · What will be your behaviour?
- Cual deverá ser nuestra futuro comportamiento?
- · Please answer if you want to see next slide!
- Por fabor respondan si desean ver la próxima diapositiva!

OPINIONES DE COLEGAS

Dear Bortolo:

First ECG diagnosis (November 19):

Rhythm: atrial fibrillation with appropriate ventricular response.

The first two QRS complexes are wider than the last two QRS complexes (third and fourth QRS complexes) (please see II lead): Aberrancy of intra ventricular conduction by left posterior fascicle?: The first two QRS complexes have qR pattern in inferior leads and rS in VL lead with deeper S wave in V2-V3. The third and fourth complexes have not these dromotropic features.

Repolarization: Saddle-back type ST-segment elevation (type 2 Brugada pattern) on the first 3 beats and type 1 Brugada pattern in the fourth one (ST segment elevation ≥ 2mm convex to the top followed by a negative T wave) on V2 lead

Second ECG (November 20) Sinus rhythm.

Left anterior fascicular block: Why?

Because:

- 1) Extreme left axis deviation of QRS axis in the left superior quadrant beyond 30° (≈ 45°);
- 2) qR pattern in VL and I (CCW rotation on FP)
- 3) Vector from initial 10 to 20 ms heading below and to the right: initial q wave in VL and I leads
- 4) QRS loop with counterclockwise rotation
- 5) rS pattern in inferior leads with SIII > SII: this criterion differentiates it from Right End Conduction Delay of the right branch and SI-SII-SIII syndrome, where SII > SIII; and
- 6) Final s wave in left precordial left leads V5-V6.
- 7) The triphasic qRs pattern in right precordial leads I think that is consequence of LSFB and not by incomplete RBBB.

Brugada pattern disappear.

Conclusion

- 1) Intermittent AF in patient without apparent structural heart disease
- 2) Spontaneous type 1 Brugada pattern (only in fourth beat V2 lead)

3) Intermittent intraventricular dromotropic disturbances: LAFB and LPFB??? Alternating???

All this aspects are suggestive of Brugada syndrome I think Please I would like some thinks about this case.

- 1) Which the age and ethnic of this patient? Caucasian? Asian? or other
- 2) Between the ECG of November 19 and the ECG of day 20 it had some therapy?

The rhythm change was spontaneous? Thank in advance.

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