

# Relationship between myotonic dystrophy and Brugada Syndrome - 2018

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We observe peculiar and many coincidences between both entities:

- 1) Both have autosomal dominant transmission;
- 2) Both are manifested predominantly initially in the productive time of life (between 20 and 30 years old)
- 3) Both present a higher incidence of atrial arrhythmias and paroxysmal AF;
- 4) Both present a higher incidence of ventricular arrhythmias;
- 5) Both may present an extreme deviation of the electric axis of QRS in the frontal plane;
- 6) Both present a frequent prolongation of the PR interval;
- 7) Both have involvement of the intraventricular His system with prolongation of the HV interval in the His electrogram;
- 8) Both present frequent complete RBBB pattern in ECG;
- 9) Our case shows that both can present upwardly convex ST segment elevation from V1 to V2;
- 10) Both present high prevalence of late potentials in signal averaged ECG (Nalos 1987; Milner 1991; Masaki 2000);
- 11) Both are considered channel diseases (Milner 1991)
- 12) Both can affect chromosome 3 (Masaki 2000; Balsler 1999)
- 13) Both may present E point in QRS loop in VCG, which does not coincide with 0 point (**Mahadevan 1992**);
- 14) Both present tendency to sudden cardiac death;
- 15) Both present enhanced risk of arrhythmias with anesthetics.

## References

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