An 8-year-old boy attended the clinic for assessment of a murmur. He played football 3 times a week and was asymptomatic, with no personal or family history of interest. His blood pressure was 90/50 mmHg, S₁ and S₂ were normal while S₃ and S₄ were absent. He had a 2/6 systolic murmur in the aortic area, without radiation.

What is the interpretation of the electrocardiogram recorded (figure 1)?

1. Sinus bradycardia with short PR. Physiological adaptation to exercise
2. Negative T waves are not normal until V₄ and he presented prolonged QTc
3. Complete atrioventricular block
4. Isorhythmic atrioventricular dissociation of physiological origin, given the patient plays sports

Submit your answer to http://www.revespcardiol.org/en/electroreto/73/08. The answer will be published in the next issue (September 2020). #RetoECG.

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