An accurate electrocardiographic algorithm for differentiation of tremor-induced pseudo-ventricular tachycardia and true ventricular tachycardia.

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摘要

Abstract

Tremor-induced electrocardiographic artifacts could be misdiagnosed as ventricular tachycardia (VT). However, there has been no electrocardiographic algorithm effectively differentiating pseudo-VT. In this study, we used 3 electrocardiographic "signs": "Sinus" sign, "Spike" sign, and "Notch" sign, and created an electrocardiographic algorithm. The algorithm was prospectively tested in 98 electrocardiographs (37 tremor-induced pseudo-VT and 61 true VT) Thirty-six out of 37 (97.3%) tremor-induced pseudo-VTs could be accurately diagnosed. In conclusion, this is the first study to systemically analyze the tremor-induced pseudo-VT. Our new electrocardiographic algorithm provides a useful tool for a rapid and accurate diagnosis.

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