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The ventricular late potentials in children with vasodepressor response of vasovagal syncope

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Objectives: The objective is to discuss Ventricular Late Potentials (VLPs) in children with vasodepressor response of vasovagal syncope (VVS-V).

Methods: 184 children diagnosed as VVS-V by head-up tilt test (HUTT) were enrolled as VVS-V group, 105 age and gender matched healthy individuals without syncope were used as control group, then signal-averaged electrocardiogram were measured.

Results: Heart rate was decreased [(83.98±12.27) vs. (87.28±13.75) bpm, P<0.05] in VVS-V group compared with control group. The prevalence of positive VLPs was not significantly different between the two groups. However, the absolute value of TQRS [(84.89±12.05) vs. (81.21±8.23) ms, P<0.01], RMS40 [(28.73±7.23) vs. (26.89±7.36) μV, P<0.05] and LAS40 [(62.43±19.17) vs. (56.79±1.83) ms, P<0.05] were significantly prolonged in VVS-V group compared with control group, and more patients in VVS-V group had abnormal prolonged LAS40 (94.57% vs. 83.80%, P<0.01).

Conclusions: The prevalence of positive VLPs was not significantly different, TQRS, RMS40, LAS40 were longer in children with VVS-V in comparison with healthy individuals, and the abnormal LAS40 occurred in a higher proportion of VVS-V group.

Biography

Cheng Wang works in the Department of Pediatric Cardiology, Children's Medical Center, Second Xiangya Hospital, Central South University, China. He is a Professor, Chief Physician, Doctoral Tutor, and the Deputy Director for Children's Medical Center and Pediatric Teaching and Research Section at the Second Xiangya Hospital, Central South University and Institute of Pediatrics, Central South University.

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