

## Two Cases of Postural Orthostatic Tachycardia Syndrome

Byung-In Han, M.D., Ji Man Hong, M.D., Se Ho Oh, M.D., Jae Hyuk Lee, M.D.,  
Oh Young Bang, M.D., In Soo Joo, M.D., Kyoong Huh, M.D.

Department of Neurology Ajou University School of Medicine

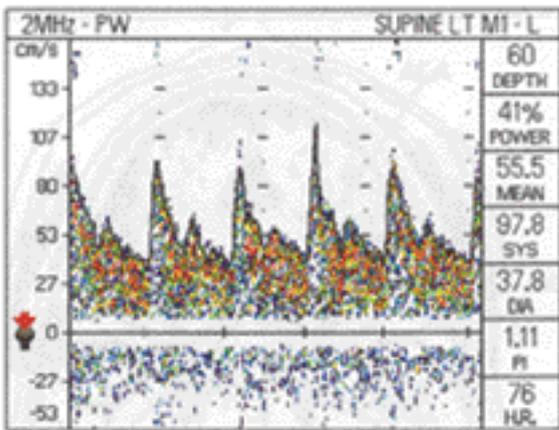
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**Key Words** : Syncope, Transcranial Doppler, Postural Orthostatic tachycardia syndrome

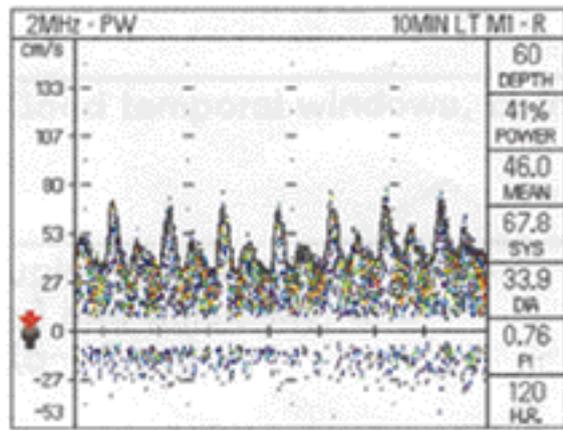
(Postural orthostatic tachycardia syndrome, POTS) , 10-30  
가 가 , . 가 .  
neurally mediated syncope (NMS), orthostatic hypotension, POTS , 15  
,<sup>1</sup> vasovagal, , , , ,  
vasodepressor, primary cerebral POTS 가 , , , , ,  
90/50 mmHg, 76 bpm  
(transcranial Doppler) , 70 10  
80/50 mmHg, 120 bpm 가  
가 . 가  
1  
16 TC22(EME, Germany) 2 MHz probe  
4 60 mm  
30 10  
, 가 10 10  
, 가 가 17% ,  
(10%) pulsatility index(PI)가 32% (31%)가 (Fig. 1).  
propranolol

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\* Address for correspondence  
**Oh Young Bang, M.D., Ph.D.**  
Department of Neurology, Ajou University  
School of Medicine, 5 San 3, Woncheon-dong,  
Paldal-gu, Suwon, 442-749, Korea  
Tel : +82-31-219-5175 Fax : +82-31-219-5178  
E-mail : nmboy@unitel.co.kr

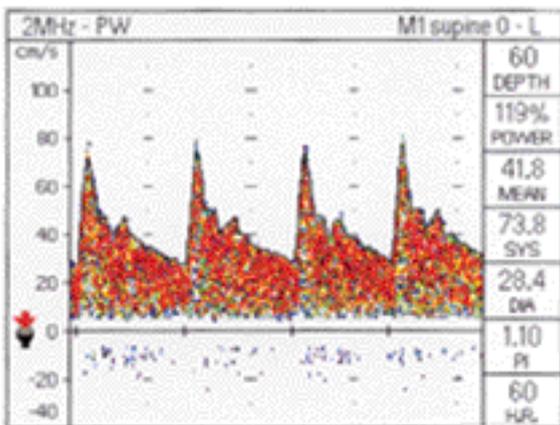
1  
 10  
 100/70 mmHg, 60 bpm  
 가 7  
 10  
 100/70  
 가  
 38.6C  
 mmHg, 127 bpm  
 가가  
 10  
 가  
 15% , PI 25%  
 (Fig. 1) 12  
 , 3  
 80 mmH<sub>2</sub>O, 90/ul,



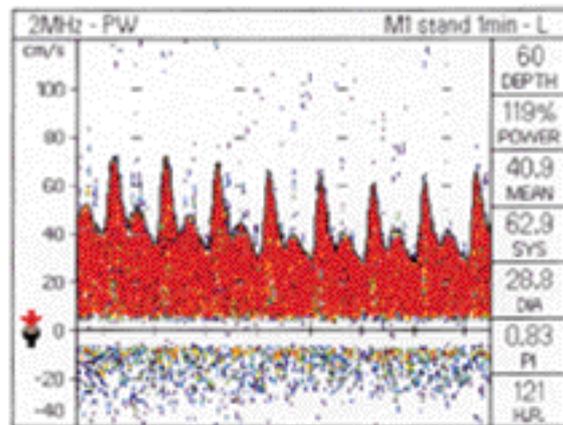
(a) Case 1, Supine



(b) Case 1, Stand 10 minutes



(c) Case 2, Supine



(d) Case 2, Stand 10 minutes

**Figure 1.** Transcranial Doppler findings of the two patients during head-up tilt test. Head-up tilt for 10 minute induces dizziness associated with marked increase in heart rate without significant change in blood pressure. Pulsatility indices decreases due to marked drop in systolic velocity and trivial changes in diastolic velocity.

[% change= (result at supine - result at 10 minutes)/result in supine]

