

Sudden Unexplained Nocturnal Death: (SUNDS): Identical to BrS?

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	SUNDS	BrS
Without apparent structural heart disease	Yes	Yes
M a l e predominance	Yes	Yes
Age presentation predominance	Young adult	Young adult
Predominant time of events	Nocturnal sleep predominance	Nocturnal sleep predominance
H i g h e s t geographic area prevalence	Southeast Asia	Southeast Asian: epidemiology
E C G pattern phenotype	Type 1 or 2 BrP (Nademanee K,1997.)	Type 1 or 2 BrP
Event triggers after large meals, especially with foods rich in carbohydrates	Yes	Yes: Positive full stomach test. (Takanori Ikeda 2006)
Fever	Predispose to trigger events	Predispose to trigger events
Genotype	Allelic	Allelic. Currently is not possible considered both equal entities.

Positive Family history	Rare	40% of cases: Possible different degrees of genetic and environmental contribution to the 2 disorders
M u t a t i o n presence	8 %	»30%
Desmoplakin (DSP) gene mutation(Qianhao Zhao 2016)	Possible. In the southern Chinese Han population,	<i>ABCC9, AKAP9, CACNA1C, CACNA2D1, CACNB2, DSG2, GPD1L, HCN4, KCND2, KCND3, KCNE3, KCNE5, KCNH2, KCNJ8, MOG1, PKP2, RANGRF, SCN5A, SCN10A, SCN1B, SCN2B, SCN3B, SEMA3A, TRPM4.</i> (genetic discrepancy)

- Nademanee K, Veerakul G, Nimmannit S, Chaowakul V, Bhuripanyo K, Likittanasombat K, Tunsanga K, Kuasirikul S, Malasit P, Tansupasawadikul S, Tatsanavivat P. Arrhythmogenic marker for the sudden unexplained death syndrome in Thai men. Circulation. 1997; 96:2595–2600.**
- Takanori Ikeda 1, Atsuko Abe, Satoru Yusu, Kentaro Nakamura, Haruhisa Shiguro, Hisaaki Mera, Masayuki Yotsukura, Hideaki Yoshino. The Full Stomach Test as a Novel Diagnostic Technique for Identifying Patients at Risk of Brugada Syndrome. J Cardiovasc Electrophysiol, 17 (6), 602-7 Jun 2006 DOI: 10.1111/j.1540-8167.2006.00424.x**
- Qianhao Zhao 1, Yili Chen 2, Longlun Peng 2, Rui Gao 3, Nian Liu 4, Pingping Jiang 3, Chao Liu 3, Shuangbo Tang 1, Li Quan 5, Jonathan C Makielski 6, Jianding Cheng 7. Identification of Rare Variants of DSP Gene in Sudden Unexplained Nocturnal Death Syndrome in the Southern Chinese Han Population. Int J Legal Med, 130 (2), 317-22 Mar 2016. PMC4951159 DOI: 10.1007/s00414-015-1275-2**