Prevalence of Brugada syndrome in 2 heart centres in Malaysia; our current data

Ahmad Shukri Saad
Ahmad Faiz Mohd Ezanee
Ru Hoi Tan
Ummu Aiqah Noorazmi
Yi Zhi Cheng
Joel Matthews
Izatul Nadzirah Ismail
Chew Wei Leong
Kantha Rao Narasamuloo
Sathvinder Singh Gian Singh
Hazleena Mohamed Hasnan
Hidayatul Alimi Keya Nordin
Dharmaraj Karthikesan
Ahmad Suhaimi Mustafa
Siti Hajar Mohd Khirrudin
Saravanan Krishnan

Introduction: Brugada syndrome carries a devastating outcome. We aimed to establish the prevalence of Brugada sign by ECG criteria (type I, 2 & 3) & syndrome at 2 heart centres; Hospital Sultanah Bahiyah Heart centre & Queen Elizabeth II Hospital, Sabah Heart centre.

Methods: Patient presented with ECG changes fulfilling criteria of Brugada type I, 2 & 3 were included in the study beginning 5th September 2017 until 23rd June 2019.

Result: Total of 35 patients met the inclusion criteria (mean age 42.1, 97.2% male). The 12-lead ECGs of these patients were reviewed and clinical information was recorded. There were 14 patients with type 1 ECG (40%), 17 patients with type 2 ECG (48.57%) & 4 with type 3 ECG (11.43%). Only 6 consented for provocation test; 5 use flecainide & 1 uses ajmaline as agent respectively. There were 4 positive provocation tests; all use flecainide & all subsequently undergone ICD implantation.

Conclusion: Our data may not reflects true prevalence of Brugada syndrome in Malaysia. National Multicentre collaboration will give elicit better picture of true prevalence.