**Supplementary Material**

**Table S1. Genetic Data – Patients with positive phenotype**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  **Cases** | Family sreening/Proband | Searched gene | Mutated gene | cDNA alteration | Protein alteration | Clinical significance  |
| 1 | Family screening | SCN5A | Exon 14 of SCN5A | c2066G>A | p.Arg689His | Pathologic  |
| 2 | Family screening  | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 3 | Family screening | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 4 | Proband | 4 genes\* | CACNA1C | c1409A>T | p.Glu470Val | Uncertain |
| 5 | Family screening | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 6 | Family screening | SCN5A | Exon 6 of SCN5A | c.664C>T | p.Arg222STOP | Pathologic |
| 7 | Family screening | SCN5A | Exon 6 of SCN5A | c.664C>T | p.Arg222STOP | Pathologic |
| 8 | Family screening | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |

Table S1 – Genetic data of patients with a positive phenotype for Brugada Syndrome. \* SCN5A, SCN10A, CACNA1C and CACNB2. \*\* No information available.

**Table S2. Genetic Data –Patients with negative phenotype/positive genotype**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  **Cases** | Family sreening/Proband | Searched gene | Mutated gene | cDNA alteration | Protein alteration | Clinical significance  |
| 1 | Family screening | SCN5A | Exon 14 of SCN5A | c2066G>A | p.Arg689His | Pathologic  |
| 2 | Family screening  | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 3 | Family screening  | SCN5A | Exon 28 of SCN5A | c6046G>A | p.Val2016Met | Pathologic |
| 4 | Family screening  | SCN5A | Exon 28 of SCN5A | c6046G>A | p.Val2016Met | Pathologic |
| 5 | Family screening  | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 6 | Family screening  | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 7 | Proband  | SCN5A | Exon 12 of SCN5A | C1571C>A | p.Ser524Tyr | Uncertain |
| 8 | Family screening  | SCN5A | SCN5A | c.664C>T | p.Arg222 | Pathologic |
| 9 | Family screening  | SCN5A | SCN5A | c.664C>T | p.Arg222 | Pathologic |
| 10 | Family screening  | SCN5A | Exon 17 of SCN5A | c.3157G>A | p.Glu1053Lys | Pathologic |
| 11 | Family screening  | SCN5A | SCN5A | c.664C>T | p.Arg222 | Pathologic |
| 12 | Family screening  | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 13 | Family screening  | SCN5A | SCN5A | Unknow\*\* | Unknow\*\* | Pathologic |
| 14 | Family screening  | SCN5A | SCN5A | c.3987delC | p.Ala1330Profs\*6 | Pathologic |

Table S2 – Genetic data of patients with negative phenotype/positive genotype for Brugada Syndrome. \* SCN5A, SCN10A, CACNA1C and CACNB2. \*\* No information available.