**Supplemental Table 2A. Clinical and ECG data of the 954 Survey patients according to their countries of origin.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Overall** | **France** | **Netherlands** | **Italy** | **Spain** | **Switzerland** | **Czech Republic** | **Greece** | **Israel** | **UK** | **Denmark** | **Belgium** | **P value** |
| **Number of patients** | 954 | 417 | 133 | 132 | 53 | 52 | 49 | 31 | 28 | 26 | 24 | 9 |   |
| **Number of centers** | 26 | 8 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 |   |
| **Male gender (%)** | 753 (78.9) | 339 (81.3) | 98 (73.7) | 104 (78.8) | 42 (79.2) | 38 (73.1) | 37 (75.5) | 22 (71.0) | 27 (96.4) | 21 (80.8) | 19 (79.2) | 6 (66.7) | 0.181 |
| **VT morphology during clinical course** |  |  |  |  |  |  |  |  |  |  |  |  | **<0.001** |
|  **LBBB-VT** | 882 (92.5) | 397 (95.2) | 123 (92.5) | 118 (89.4) | 43 (81.1) | 47 (90.4) | 43 (87.8) | 31 (100.0) | 26 (92.9) | 24 (92.3) | 23 (95.8) | 7 (77.8) |   |
|  **LBBB-VT + RBBB-VT** | 30 (3.1) | 13 (3.1) | 8 (6.0) | 1 (0.8) | 1 (1.9) | 1 (1.9) | 2 (4.1) | 0 (0.0) | 1 (3.6) | 1 (3.8) | 1 (4.2) | 1 (11.1) |   |
|  **RBBB-VT** | 42 (4.4) | 7 (1.7) | 2 (1.5) | 13 (9.8) | 9 (17.0) | 4 (7.7) | 4 (8.2) | 0 (0.0) | 1 (3.6) | 1 (3.8) | 0 (0.0) | 1 (11.1) |   |
|  **RBBB-VT (with or without LBBB-VT)** | 72 (7.5) | 20 (4.8) | 10 (7.5) | 14 (10.6) | 10 (18.9) | 5 (9.6) | 6 (12.2) | 0 (0.0) | 2 (7.1) | 2 (7.7) | 1 (4.2) | 2 (22.2) | **0.007** |
| **2010 Task Force criteria** |  |  |  |  |  |  |  |  |  |  |  |  | **<0.001** |
|  **Definite** | 858 (89.9) | 371 (89.0) | 132 (99.2) | 127 (96.2) | 44 (83.0) | 38 (73.1) | 33 (67.3) | 31 (100.0) | 26 (92.9) | 24 (92.3) | 23 (95.8) | 9 (100.0) |  |
|  **Borderline** | 60 (6.3) | 27 (6.5) | 1 (0.8) | 4 (3.0) | 5 (9.4) | 14 (26.9) | 6 (12.2) | 0 (0.0) | 2 (7.1) | 0 (0.0) | 1 (4.2) | 0 (0.0) |   |
|  **Possible** | 36 (3.8) | 19 (4.6) | 0 (0.0) | 1 (0.8) | 4 (7.5) | 0 (0.0) | 10 (20.4) | 0 (0.0) | 0 (0.0) | 2 (7.7) | 0 (0.0) | 0 (0.0) |   |
| **Age at first documented VT (years)** | 41.5+15.8 | 41.0+16.1 | 40.2+15.6 | 41.8+14.5 | 44.2+13.9 | 40.9+14.9 | 41.5+18.4 | 36.4+16.9 | 42.5+16.5 | 49.1+15.9 | 42.6+14.5 | 53.0+11.0 | **0.043** |
| **ICD implantation** |  |  |  |  |  |  |  |  |  |  |  |  | **<0.001** |
|  **Yes** | 667 (69.9) | 223 (53.5) | 112 (84.2) | 93 (70.5) | 49 (92.5) | 51 (98.1) | 43 (87.8) | 20 (64.5) | 18 (64.3) | 26 (100.0) | 24 (100.0) | 8 (88.9) |   |
|  **Unknown** | 25 (2.6) | 0 (0.0) | 21 (15.8) | 0 (0.0) | 4 (7.5) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |   |
| **VT ablation performed** |  |  |  |  |  |  |  |  |  |  |  |  | **<0.001** |
|  **Yes** | 550 (57.7) | 235 (56.4) | 42 (31.6) | 112 (84.8) | 48 (90.6) | 13 (25.0) | 43 (87.8) | 9 (29.0) | 17 (60.7) | 13 (50.0) | 15 (62.5) | 3 (33.3) |   |
|  **Unknown** | 9 (0.9) | 0 (0.0) | 8 (6.0) | 1 (0.8) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |   |
| **Death during follow-up** |  |  |  |  |  |  |  |  |  |  |  |  | **0.001** |
|  **Yes** | 106 (11.1) | 48 (11.5) | 21 (15.8) | 8 (6.1) | 1 (1.9) | 2 (3.8) | 6 (12.2) | 10 (32.3) | 6 (21.4) | 3 (11.5) | 0 (0.0) | 1 (11.1) |   |
|  **Unknown** | 28 (2.9) | 21 (5.0) | 0 (0.0) | 1 (0.8) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (3.6) | 5 (19.2) | 0 (0.0) | 0 (0.0) |   |

**Supplemental Table 2B. Genetic results of the Survey 954 patients according to their countries of origin.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Overall** | **France** | **Netherlands** | **Italy** | **Spain** | **Switzerland** | **Czech Republic** | **Greece** | **Israel** | **UK** | **Denmark** | **Belgium** | **P value** |
| **Genetic test performed** | 538 (56.4) | 216 (51.8) | 133 (100.0) | 25 (18.9) | 38 (71.7) | 24 (46.2) | 38 (77.6) | 21 (67.7) | 4 (14.3) | 18 (69.2) | 20 (83.3) | 1 (11.1) | **<0.001** |
|  **No variant identified** | 121 (22.5) | 66 (30.6) | 21 (15.8) | 4 (16.0) | 4 (10.5) | 1 (4.2) | 9 (23.7) | 0 (0.0) | 1 (25.0) | 8 (44.4) | 7 (35.0) | 0 (0.0) |   |
|  **Familial unknown** | 45 (8.4) | 0 (0.0) | 21 (15.8) | 3 (12.0) | 0 (0.0) | 0 (0.0) | 6 (15.8) | 0 (0.0) | 0 (0.0) | 8 (44.4) | 7 (35.0) | 0 (0.0) |   |
|  **Gene variant identified**  | 359 (66.7) | 129 (59.7) | 106 (79.7) | 17 (68.0) | 20 (52.6) | 19 (79.2) | 28 (73.7) | 19 (90.5) | 2 (50.0) | 9 (50.0) | 10 (50.0) | 0 (0.0) | **<0.001** |
|  **Plakophilin 2 (*PKP2)*** | 221 (61.6) | 89 (69.0) | 80 (75.5) | 8 (47.1) | 8 (40.0) | 8 (42.1) | 10 (35.7) | 4 (21.1) | 2 (100.0) | 6 (66.7) | 6 (60.0) | 0 (0.0) | **0.002** |
|  **Desmoglein 2 (*DSG2*)** | 26 (7.2) | 12 (9.3) | 2 (1.9) | 2 (11.8) | 1 (5.0) | 5 (26.3) | 1 (3.6) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 3 (30.0) | 0 (0.0) | **0.02** |
|  **Desmoplakin (*DSP*)** | 26 (7.2) | 7 (5.4) | 1 (0.9) | 3 (17.6) | 4 (20.0) | 1 (5.3) | 8 (28.6) | 1 (5.3) | 0 (0.0) | 1 (11.1) | 0 (0.0) | 0 (0.0) | **0.002** |
|  **Junction plakoglobin (*JUP*)** | 11 (3.1) | 0 (0.0) | 0 (0.0) | 1 (5.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 10 (52.6) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |   |
|  **Desmocollin 2 (*DSC2*)** | 9 (2.5) | 1 (0.8) | 2 (1.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (3.6) | 4 (21.1) | 0 (0.0) | 1 (11.1) | 0 (0.0) | 0 (0.0) |   |
|  **Multiple genes** | 13 (3.6) | 12 (9.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (5.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |   |
|  **Phospholamban (*PLN*)** | 18 (5.0) | 0 (0.0) | 17 (16.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (3.6) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | **0.002** |
|  **Miscellaneous genes**  | 35 (9.7) | 8 (6.2) | 4 (3.8) | 3 (17.6) | 7 (35.0) | 4 (21.1) | 7 (25.0) | 0 (0.0) | 0 (0.0) | 1 (11.1) | 1 (10.0) | 0 (0.0) |  **0.002** |
|  **Variant of Unknown Significance** | 32 (5.9) | 9 (4.2) | 6 (4.5) | 3 (12.0) | 3 (7.9) | 4 (16.7) | 1 (2.6) | 2 (9.5) | 0 (0.0) | 1 (5.6) | 3 (15.0) | 0 (0.0) |   |
|  **Unknown results** | 26 (4.8) | 12 (5.6) | 0 (0.0) | 1 (4.0) | 11 (28.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (25.0) | 0 (0.0) | 0 (0.0) | 1 (100) |   |