**Supplementary Data**

Supplementary table 1: 36 gene panel tested in molecular autopsy cohort

|  |  |  |
| --- | --- | --- |
| **ACTC1**​ | **KCNH2**​ | **PLN**​ |
| **CASQ2**​ | **KCNJ2**​ | **PTPNY**​ |
| **CSRP1**​ | **KCNQ1**​ | **PRKAG2**​ |
| **DES**​ | **KRAS**​ | **RAF1**​ |
| **DSC2**​ | **LAMP2**​ | **RBM20**​ |
| **DSP**​ | **LMNA**​ | **RYR2**​ |
| **DSG2**​ | **MYBPC3**​ | **SCN5A**​ |
| **GAA**​ | **MYH6**​ | **SOS1**​ |
| **GLA**​ | **MYH7**​ | **TMEM43**​ |
| **JUP**​ | **MYL2**​ | **TNNT**​ |
| **KCNE1**​ | **MYL3**​ | **TTN**​ |
| **KCNE2**​ | **PKP2**​ | **TPM1**​ |

Supplementary table 2**:** Pathogenic and likely pathogenic variants found in the SADS molecular autopsy cohort

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Local ID** | **Age** | **Gender** | **Circumstances of death** | **family history of SCD** | **Gene** | **c.DNA** | **Protein** | **ACMG** |
| 16CRY673 | 33 | M | rest | yes | *DSG2* | c.3059\_3062delAGAG | p.Glu1020AlafsTer18 | PVS1,PM2 |
| 17CRY15 | 20 | M | exertion | no | *JUP* | c.1816G>A | p.G606R | PM1 PM2,PP2,PP3 |
| HR233 | 31 | F | unknown | no | *KCNH2* | c.3107delG | p.Gly1036AlafsTer21 | PVS1,PM2 |
| HR263 | 22 | F | sleep | no | *KCNH2* | c.2173C>T | p.Q725X | PVS1,PM2 |
| HR410 | 19 | F | sleep | no | *KCNH2* | c.1520C>T | p.P507L | PS1, PM2, PP3 |
| 15CRY648 | 31 | F | rest | unknown | *KCNH2* | c.1750G>A | p.G584S | PM1,PM2, PP1, PP5 |
| 14CRY201 | 22 | M | rest | no | *KCNH2* | c.872T>C | p.M291T | PM2, PP1, PS4 |
| 15CRY308 | 44 | F | rest | no | *KCNH2* | c.1190G>A | p.R397H | PM2, PS3, PM5, PP3 |
| 15CRY517 | 39 | F | sleep | no | *KCNH2* | c.1888G>A | p.V630I | PS4,PM1,PM5,PP3,PP5 |
| 14CRY390 | 31 | M | . | . | *KCNH2* | c.135C>G | p.N45K | PM1,PM2,PM5,PP3 |
| 17CRY127 | 40 | F | after waking | no | *KCNH2* | c.2738C>T | p.A913V | PM1, PM2, PP1, PP5 |
| HR243 | 54 | F | unknown | yes | *KCNQ1* | c.110\_113delCGCT | p.Ser37TrpfsTer48 | PVS1,PM2 |
| 15CRY199 | 35 | F | light activity | no | *KCNQ1* | c.1009A>G | p.I337V | PM1,PM2, PM5 |
| 15CRY372 | 42 | F | sleep | no | *KCNQ1* | c.1663C>T | p.R555C | PM1,PM2,PP3, PS3, PP5 |
| 15CRY485 | 57 | M | sleep | no | *KCNQ1* | c.1354C>T | p.R452W | PS4, PM5, PP3 |
| 17CRY111 | 46 | F | rest | unknown | *KCNQ1* | c.877C>T | p.R293C | PS4, PM1, PM2, PP2 |
| 14CRY170 | 22 | F | sleep | no | *MYH6* | c.5794A>T | p.K1932X | PVS1, PM2, PP2, PP3 |
| 15CRY598 | 47 | M | rest | unknown | *MYH6* | c.1960C>T | p.R654W | PS1, PM2, PP3, PP2 |
| 15CRY157 | 54 | M | sleep | no | *MYH7* | c.4259G>A | p.R1420Q | PM2,PP1,PP3, PS4, PM5 |
| HR715 | 22 | M | exercise | no | *PKP2* | c.1957delA | p.Arg653GlyfsTer3 | PVS1,PM2 |
| HR66 | 32 | M | rest | no | *PLN* | c.116T>G | p.L39X | PVS1,PM2 |
| HR9 | 18 | M | exertion | no | *RYR2* | c.1259G>A | p.R420Q | PM1,PM2,PM5,PP3 |
| HR306 | 6 | M | . | . | *RYR2* | c.7202G>A | p.R2401H | PS4,PS3,PM1,PM2,PM5,PP3 |
| HR930 | 3 | F | rest | . | *RYR2* | c.12004A>G | p.M4002V | PS2,PM1,PM2,PM5,PP3 |
| 15CRY289 | 20 | M | sleep | no | *RYR2* | c.995G>A | p.R332Q | PM1,PM2,PM5\_supporting, PP3 |
| 14CRY338 | 12 | F | light activity | no | *RYR2* | c.6829T>G | p.C2277G | PM1,PM2,PP3, PM5 |
| HR38 | 41 | M | . | . | *RYR2* | c.13823G>A | p.R4608Q | PM1,PM2,PP3, PM5, PP1 |
| HR36 | 38 | M | exertion | no | *RYR2* | c.5248G>A | p.G1750R | PM2,PP3, PP4\* |
| HR84 | 8 | M | exertion | no | *RYR2* | c.6503A>G | p.H2168R | PM2,PP3,PM5\_supporting |
| 16CRY638 | 44 | M | rest | unknown | *SCN5A* | c.3944C>G | p.S1315X | PVS1,PM2 |
| 14CRY384 | 24 | F | light activity | yes | *SCN5A* | c.673C>T | p.R225W | PM2,PS1\_moderate,PS3, PS4, PP2,PP3 |
| 15CRY504 | 47 | F | . | no | *SCN5A* | c.4850\_4852delTCT | p.Phe1617del | PM2,PM4, PS3 |
| HR87 | 39 | M | . | no | *SCN5A* | c.361C>T | p.R121W | PM2,PP3,PM5\_supporting, PP1, PS3, PS4 |
| 14CRY191 | 27 | F | sleep | no | *SCN5A* | c.5038G>A | p.A1680T | PM2,PP2,PP3, PP1, PM1 |
| 14CRY514 | 24 | M | sleep | no | *SCN5A* | c.3665T>G | p.L1222R | PM1, PM2,PP2,PP3, |

Supplementary Table 3: Variants of uncertain significance identified in the cohort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SADS case** | **Age** | **Gender** | **Circumstances of death** | **Gene** | **c.DNA** | **Protein** | **ACMG criteria** |
| HR47 | 30 | Female | . | *MYH7* | c.3890T>G | p.L1297R | PM2,PP3 |
| HR304 | 13 | Male | sleep | *RYR2* | c.12152C>T | p.A4051V | PM1,PM2, PP3 |
| HR403 | 18 | Male | rest | *RYR2* | c.10681C>G | p.L3561V | PM2, PP3 |
| HR480 | 1 | Male | rest | *SCN5A* | c.3251G>A | p.G1084D | PM2, BP4 |
| HR64 | 42 | Male | sleep | *CACNA1C* | c.2257\_2258ins  CCAAGAACACATTCAGTAGGATATC | p.Val753Alafs\*14 | PM2 |
| HR313 | 11 | Male | . | *JUP* | c.2069A>G | p.N690S | PM2,PP2,BP4 |
| HR307 | 29 | Male | . | *DSP* | c.521G>T | p.C174F | PM2, |
| HR307 | 29 | Male | . | *RBM20* | c.2042A>G | p.Y681C | PM2,PP2 |
| HR311 | 35 | Male | . | *MYH7* | c.4717G>A | p.E1573K | PM2, PP2, PP3 |
| HR314 | 25 | Female | . | *KCNE1* | c.142C>T | p.L48F | PP3 |
| HR316 | 11 | Male | . | *RYR2* | c.3396A>T | p.E1132D | PM2,BP4 |
| HR316 | 11 | Male | . | *SOS1* | c.1168dupA | p.Ile390AsnfsTer4 | PM2 |
| HR316 | 11 | Male | . | *PKP2* | c.2635C>G | p.L879V | PM2 |
| HR316 | 11 | Male | . | *DSC2* | c.2516A>G | p.Y839C | PM2 |
| HR285 | 27 | Male | unknown | *SCN5A* | c.3524G>A | p.R1175H | PM1, PM2 , BP1 |
| HR26 | 28 | Male | death on exertion | *MYH7* | c.3037G>A | p.E1013K | PM2,PP2,PP3 |
| HR292 | 41 | Male | asleep | *MYL2* | c.431delC | p.Pro144LeufsTer3 | PM2 |
| 16CRY515 | 43 | Female | rest | *PRKAG2* | c.684+1G>C |  | PM2 |
| HR34 | 57 | Male | rest | *DSP* | c.2926C>A | p.L976M | PM2 |
| 16CRY700 | 36 | Male | sleep | *RYR2* | c.2296A>G | p.I766V | PM2 |
| 17CRY111 | 46 | Female | rest | *RYR2* | c.9880G>A | p.A3294T | PM2 |
| HR19 | 52 | Female | unknown | *JUP* | c.529C>T | p.R177W | PM2,PP2,PP3 |
| 17CRY74 | 36 | Male | rest | *LMNA* | c.976T>A | p.S326T | PP2,BP4 |
| HR403 | 18 | Male | rest | *RYR2* | c.10681C>G | p.L3561V | PM2, PP3 |
| HR405 | 20 | Female | rest | *TNNT2* | c.53-10\_53-6delTTCTG |  | PM2 |
| HR407 | 20 | Male | rest | *DSP* | c.3140C>T | p.A1047V | PM2 |
| HR408 | 18 | Male | rest | *DSC2* | c.415C>T | p.P139S | PM2 |
| HR411 | 18 | Female | rest | *LMNA* | c.682G>A | p.E228K | PM2,PP2,PP3 |
| HR411 | 18 | Female | rest | *KCNH2* | c.2564G>A | p.S855N | PM2 |
| HR411 | 18 | Female | rest | *KCNH2* | c.2015G>A | p.R672H | PM2,PP3 |
| HR411 | 18 | Female | rest | *MYH7* | c.4079T>A | p.V1360D | PM2 |
| HR412 | 16 | Male | rest | *LMNA* | c.256G>A | p.G86R | PM2,PP2 |
| HR412 | 16 | Male | rest | *PKP2* | c.1643G>T | p.G548V | PM2 |
| HR415 | 15 | Male | rest | *TNNT2* | c.583G>A | p.E195K | PM2,PP2 |
| HR415 | 15 | male | rest | *KCNH2* | c.38C>A | p.T13N | PM1, PP3 |
| HR438 | 2 | Male | febrile | *KCNH2* | c.1052C>T | p.S351L | PP3 |
| HR480 | 1 | Male | rest | *SCN5A* | c.3251G>A | p.G1084D | PM2,BP4 |
| HR480 | 1 | Male | rest | *MYBPC3* | c.2092G>T | p.A698S | PM2,PM5,PP2,BP4 |
| 16CRY111 | 35 | Female | rest | *SCN5A* | c.5435C>T | p.S1812L | PM2, PP3 |
| HR33 | 24 | Male | rest | *DSP* | c.686G>A | p.G229D | PM2 |
| 16CRY809 | 38 | Female | rest | *RYR2* | c.6486G>A | p.M2162I | PM2 |
| 17CRY94 | 36 | Male | rest | *RBM20* | c.2371C>T | p.R791W | PM2,PP2,PP3 |
| 17CRY94 | 36 | Male | rest | *JUP* | c.1066G>A | p.A356T | PM2,PP2 |
| 15CRY632 | 23 | Male | rest | *DSP* | c.5324G>T | p.R1775I | BS1 |
| 16CRY839 | 37 | Male | rest | *DSP* | c.6010G>T | p.V2004F | PM2 |
| 16CRY798 | 26 | Male | rest | *DSC2* | c.857G>T | p.G286V | PM2 |
| 16CRY878 | 41 | Male | sleep | *MYH7* | c.5725C>T | p.R1909W | PM2,PP2,PP3 |
| 17CRY49 | 36 | Male | rest | *RYR2* | c.8941T>C | p.Y2981H | PM2,PM5\_supporting |
| 16CRY771 | 36 | Male | rest | *RYR2* | c.4409G>C | p.G1470A | PM2, PP3 |
| 17CRY174 | 20 | Male | rest | *MYL3* | c.476C>T | p.T159M | PP2,PP3 |
| 16CRY597 | 34 | Female | rest | *PRKAG2* | c.196C>T | p.P66S | PM2 |
| 16CRY808 | 29 | Male | rest | *RYR2* | c.10046C>T | p.S3349L | PM2,PP3, BP5 |
| HR701 | 16 | Male | . | *MYBPC3* | c.529C>T | p.R177C | PP2 |
| 17CRY97 | 27 | Male | . | *RAF1* | c.94A>G | p.I32V | PP5 |
| 17CRY97 | 27 | Male | . | *DSG2* | c.1038\_1040delGAA | p.Lys346del | PM2,PM4 |
| 15CRY197 | 14 | Female | . | *DSG2* | c.1038\_1040delGAA | p.Lys346del | PM2,PM4 |
| 15CRY446 | 58 | Male | . | *DSP* | c.2327C>G | p.A776G | PM2,BP4 |
| 15CRY446 | 58 | Male | . | *DSP* | c.2708A>G | p.Y903C | PM2 |
| 16CRY617 | 9 | Female | sleep | *MYBPC3* | c.2714G>A | p.S905N | PM2,PP2,BP4 |
| HR9 | 18 | Male | exertion | *KCNQ1* | c.1896A>C | p.R632S | PM1, PM2 |
| HR23 | 22 | Male | . | *LMNA* | c.1279C>T | p.R427C | PM2,PP2 |
| HR703 | 20 | Male | . | *MYH7* | c.4441C>T | p.L1481F | PM2,PP3 |
| HR703 | 20 | Male | . | *RBM20* | c.3595G>A | p.E1199K | PM2,PP2 |
| HR717 | 13 | Male | sleep | *RBM20* | c.3595G>A | p.E1199K | PM2,PP2 |
| HR722 | 37 | Female | no | *RBM20* | c.3595G>A | p.E1199K | PM2,PP2 |
| 16CRY531 | 3 | Female | rest | *JUP* | c.551A>T | p.Q184L | PM2,PP2 |
| 16CRY531 | 3 | Female | rest | *JUP* | c.550C>A | p.Q184K | PM2,PP2 |
| 16CRY691 | 51 | Male | rest | *SCN5A* | c.4786T>A | p.F1596I | PM1, PM2, PP3, BP1 |
| HR713 | 16 | Male | exertion | *MYL3* | c.235G>A | p.V79I | PM2,PP2 |
| HR714 | 33 | Mae | rest | *KCNH2* | c.2903C>T | p.P968L | PM1, PP2 |
| 16CRY93 | 36 | Male | rest | *MYH7* | c.4453A>C | p.K1485Q | PM2 |
| 16CRY174 | 19 | Female | sleep | *RBM20* | c.1896G>C | p.R632S | PM2,PP2 |
| 16CRY32 | 35 | Male | sleep | *DSP* | c.5513G>A | p.R1838H | PM2, PP5 |
| 16CRY32 | 35 | Male | sleep | *DSG2* | c.2701A>C | p.K901Q | PM2,BP4 |
| 16CRY398 | 50 | Male | sleep | *PKP2* | c.1385C>G | p.T462R | BP4 |
| 16CRY398 | 50 | Male | sleep | *MYH7* | c.5537G>A | p.R1846H | PM2, PP3 |
| 16CRY146 | 19 | Male | immediately post exertion | *PRKAG2* | c.320C>T | p.P107L | PM2 |
| 16CRY244 | 36 | Male | sleep | *MYH7* | c.4532A>C | p.D1511A | PM2,PP3 |
| HR734 | 37 | Male | rest | *SOS1* | c.890C>T | p.S297L | PM2 |
| 17CRY196 | 40 | Male | rest | *TTN* | c.105301\_105306delTCTGCA | p.Ser35101\_Ala35102del | PM2,PM4 |
| HR202 | 16 | Female | rest | *CSRP3* | c.509-3\_509-2delCA |  | PM2 |
| HR65 | 33 | Male | SADS | *DSG2* | c.2825C>T | p.T942I | PM2 |
| HR909 | 1 | Male | sleep | *PKP2* | c.2560C>T | p.H854Y | PM2 |
| HR910 | 1 | Male | sleep | *KCNQ1* | c.1379G>A | p.G460D | PM2,BP4 |
| HR913 | 2 | Female | sleep | *DSC2* | c.2335G>A | p.G779R | PM2 |
| HR916 | 1 | Female | sleep | *RYR2* | c.5825T>G | p.F1942C | PM2 |
| HR921 | 5 | Male | sleep | *GAA* | c.2725G>A | p.V909M | PM2,PP3 |
| 17CRY15 | 20 | Male | exertion | *JUP* | c.1816G>A | p.G606R | PM2,PP2,PP3 |
| 17CRY15 | 20 | Male | exertion | *LAMP2* | c.214G>A | p.V72M | PM2 |
| HR51 | 21 | Male | rest | *SOS1* | c.688T>G | p.F230V | PM2 |
| HR749 | 27 | Male | rest | *JUP* | c.1398C>A | p.H466Q | PM2,PP2 |
| 15CRY497 | 28 | Female | rest | *JUP* | c.1912A>C | p.N638H | PM2,PP2 |
| HR751 | 17 | Male | exercise | *PRKAG2* | c.500C>A | p.T167N | PM2,PP3 |
| 16CRY537 | 25 | Female | rest | *DSP* | c.3562T>C | p.Y1188H | PM2, PP3 |
| 16CRY538 | 26 | Female | rest | *DSG2* | c.1707G>C | p.Q569H | PM2,BP4 |
| 16CRY7 | 15 | Male | sleep | *DSC2* | c.1766T>C | p.M589T | PM2,BP4 |
| 16CRY521 | 15 | Male | rest | *SCN5A* | c.4396A>T | p.I1466F | PM1,PM2,PP3, BP1 |
| HR502 | 58 | Female | . | *RBM20* | c.3464T>C | p.V1155A | PM2,PP2 |
| 17CRY50 | 42 | Male | rest | *RYR2* | c.11197G>A | p.D3733N | PM2 |
| 16CRY262 | 17 | Female | rest | *LMNA* | c.1978A>G | p.N660D | PM2,PP2 |
| 16CRY875 | 40 | Male | sleep | *LMNA* | c.1634G>A | p.R545H | PP2,PP3 |
| 16CRY636 | 34 | Female | sleep | *DSP* | c.4894G>A | p.D1632N | PM2 |
| 16CRY447 | 51 | Male | rest | *TNNT2* | c.832C>T | p.R278C | PP1,PP2 |
| 16CRY447 | 51 | Male | rest | *PKP2* | c.1292T>C | p.L431S | PM2 |
| 17CRY130 | 24 | Female | rest | *KCNH2* | c.3112G>A | p.V1038M | PM1, PM2 |
| 17CRY130 | 24 | Female | rest | *GAA* | c.2672G>C | p.R891P | PM2 |
| HR75 | 16 | Male | light activity | *RYR2* | c.13079C>T | p.S4360F | PM1,PM2 |
| HR79 | 2 | Male | . | *KCNH2* | c.2075C>A | p.P692H | PM1, PM2,PP3 |
| 14CRY191 | 27 | Female | sleep | *MYL3* | c.559+1G>T |  | PM2 |
| 14CRY191 | 27 | Female | sleep | *DSC2* | c.823A>G | p.T275A | PM2 |
| HR80 | 42 | Male | sleep | *SOS1* | c.3001A>G | p.M1001V | PM2,BP4 |
| HR81 | 43 | Male | sleep | *GAA* | c.658G>T | p.V220L | PM2,BP4 |
| 14CRY332 | 25 | Female | light activity | *RBM20* | c.1633G>A | p.V545I | PM2,PP2 |
| 14CRY332 | 25 | Female | light activity | *JUP* | c.809T>A | p.L270Q | PM2,PP2,PP3 |
| 14CRY397 | 24 | Male | light activity | *MYBPC3* | c.557C>T | p.P186L | PP2 |
| 14CRY116 | 30 | Male | sleep | *DSC2* | c.1583A>G | p.K528R | PM2,BP4 |
| 14CRY116 | 30 | Male | sleep | *DSG2* | c.3167C>T | p.T1056I | PM2,BP4 |
| 14CRY421 | 41 | Male | light activity | *DSC2* | c.2381C>T | p.S794L | PM2,BP4 |
| HR219 | 25 | Male | exercise | *GAA* | c.2671C>G | p.R891G | PM2 |
| 14CRY362 | 38 | Male | sleep | *TPM1* | c.182C>G | p.S61C | PM2,PP2 |
| 14CRY379 | 34 | Female | light activity | *DSP* | c.5417C>G | p.T1806S | BP4 |
| 14CRY628 | 20 | Male | . | *MYH7* | c.2575C>T | p.L859F | PM1,PM2, PP2 |
| 15CRY157 | 54 | Male | sleep | *SOS1* | c.1829T>C | p.I610T | PM2 |
| 15CRY288 | 32 | Female | light activity | *RBM20* | c.2754\_2756delAGA | p.Glu918del | PM2,PM4 |
| 15CRY508 | 37 | Female | sleep | *DSC2* | c.1558A>G | p.I520V | PM2,BP4 |
| 15CRY337 | 19 | Male | . | *LMNA* | c.1657G>A | p.D553N | PM2,PP2 |
| 15CRY337 | 19 | Male | . | *RAF1* | c.793A>G | p.M265V | PM2 |
| 15CRY504 | 47 | Female | . | *DSP* | c.1274G>A | p.R425Q | PM2 |
| 15CRY083 | 32 | Male | sleep | *JUP* | c.1355C>T | p.T452M | PM2,PP2 |
| 15CRY083 | 32 | Male | sleep | *DSC2* | c.577\_624delGGAAACTT  GTATTGTACTCGTCCTGT  AGATCGTGAGCAGTATGAATCT | p.Gly193\_Ser208del | PM2,PM4 |
| 15CRY509 | 32 | Female | light activity | *PKP2* | c.1010G>A | p.S337N | BP4 |
| 15CRY552 | 29 | Female | sleep | *MYBPC3* | c.2801T>C | p.L934P | PM2,PP2,PP3 |
| 15CRY124 | 55 | Female | rest | *TNNT2* | c.732G>T | p.E244D | PP2,PP3 |
| HR304 | 13 | Male | sleep | *RYR2* | c.12152C>T | p.A4051V | PM1,PM2,PP3 |
| HR304 | 13 | Male | sleep | *TTN* | c.66691\_66692delCG | p.Arg22231CysfsTer5 | PVS1\_strong,PM2 |
| 15CRY131 | 38 | Male | sleep | *RAF1* | c.66T>G | p.F22L | PM2 |
| 14CRY604 | 22 | Male | rest | *GAA* | c.868A>G | p.N290D | PM2,PP3 |
| 15CRY132 | 44 | Male | rest | *GAA* | c.258dupC | p.Asn87GlnfsTer9 | PM2 |
| 15CRY485 | 57 | Male | sleep | *DSP* | c.8172G>T | p.Q2724H | PM2, BP4 |
| 15CRY485 | 57 | Male | sleep | *KCNH2* | c.355G>C | p.D119H | PM1, PP3, PP2 |
| 15CRY485 | 57 | Male | sleep | *RBM20* | c.2201G>A | p.R734Q | PP2,BS1 |
| 15CRY485 | 57 | Male | sleep | *TTN* | c.658C>T | p.R220X | PVS1\_strong,PM2 |
| 15CRY531 | 48 | Female | rest | *ACTC1* | c.622C>T | p.R208C | PM2,PP2,PP3 |
| 15CRY531 | 48 | Female | rest | *JUP* | c.436G>A | p.E146K | PM2,PP2 |
| 15CRY284 | 41 | Female | rest | *PKP2* | c.1135C>G | p.H379D | PM2 |

**Supplementary Table 4** : Effect of male sex on molecular autopsy/familial evaluation diagnosis in sudden death irrespective of age (compared to remaining unexplained; data shown as RRR [95% Credible Interval]).

|  |  |  |
| --- | --- | --- |
|  | **Molecular Autopsy diagnosis** | **Familial Evaluation diagnosis** |
| **BrS** | **0.423 (0.071-0.949)** | **0.897 (0.696-0.996)** |
| **LQTS** | **0.141 (0.024-0.398)** | 1.001 (0.995-1.006) |
| **CPVT** | **0.656 (0.233-0.989)** | **0.413 (0.069-0.939)** |
| **Cardiomyopathy** | **0.698 (0.271-0.992)** | **0.756 (0.376-0.994)** |

\*Bold text indicated significant result

**Supplementary Table 5**: Effect of age on molecular autopsy and familial evaluation diagnosis in sudden death population for 1-year increase in age irrespective of sex (compared to remaining unexplained; data shown as RRR [95% Credible Interval]).

|  |  |  |
| --- | --- | --- |
|  | **Molecular Autopsy diagnosis** | **Familial Evaluation diagnosis** |
| **BrS** | 1.011 (0.942-1.083) | 1.004 (0.984-1.024) |
| **LQTS** | 1.030 (0.985-1.077) | **0.944 (0.907-0.980)** |
| **CPVT** | **0.879 (0.812-0.945)** | **0.893 (0.814-0.973)** |
| **Cardiomyopathy** | 0.995 (0.931-1.060) | 0.958 (0.900-1.014) |

**SUPPLEMENTARY FIGURE 1: Overall Cohort by Age and investigations available**

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