Supplementary Material
## Supplementary Table 1. Clinical data of PWE according to caregivers’ psychiatric groups.

| PWE data          | Caregivers with depression N = 29 | Caregivers without depression N = 81 | *p*-value | Caregivers with anxiety N = 31 | Caregivers without anxiety N = 74 | *p*-value | Caregivers with depression plus anxiety N = 16 | Caregivers without depression plus anxiety N = 84 | *p*-value |
|-------------------|-----------------------------------|--------------------------------------|-----------|-------------------------------|-----------------------------------|-----------|-----------------------------------------------|-----------------------------------------------|-----------|
| BDI-II scores     | 22 [3-46]                         | 9 [0-41]                             | <0.001    | 16 [0-36]                     | 9 [0-41]                          | 0.041     | 22.5 [3-36]                                  | 8 [0-46]                                      | 0.007     |
| BAI scores        | 18 [1-47]                         | 8 [0-50]                             | 0.015     | 14 [0-39]                     | 8 [0-50]                          | 0.18      | 17 [1-39]                                    | 8.5 [0-50]                                    | 0.06      |
| LAEP scores       | 44.5 [21-68]                      | 37 [19-76]                           | 0.026     | 43 [19-68]                    | 37 [19-76]                        | 0.22      | 45.5 [26-68]                                 | 36.5 [19-76]                                  | 0.038     |
| Age               | 29 [6-52]                         | 34 [3-67]                            | 0.28      | 29 [6-52]                     | 34 [3-67]                         | 0.09      | 27 [6-52]                                    | 34 [3-67]                                     | 0.06      |
| Type of epilepsy  |                                  |                                      |           |                               |                                   |           |                                               |                                               |           |
| Focal             | 24 (82.8%)                        | 59 (74.7%)                           |           | 26 (83.9%)                    | 54 (74%)                          |           | 14 (87.5%)                                   | 62 (74.7%)                                    |           |
| Genetic           | 3 (10.3%)                         | 11 (13.9%)                           |           | 4 (12.9%)                     | 10 (13.7%)                        |           | 3 (12.5%)                                    | 11 (13.3%)                                    |           |
| Generalized       |                                  |                                      |           |                               |                                   |           |                                               |                                               |           |
| Unknown           | 2 (6.9%)                          | 9 (11.4%)                            |           | 1 (3.2%)                      | 9 (12.3%)                         |           | 0 (0%)                                       | 10 (12%)                                      |           |
| Genetic related   |                                  |                                      | 0.75      |                               | 1                                 |           |                                               |                                               |           |
| Yes               | 22 (75.6%)                        | 57 (70.4%)                           |           | 22 (71%)                      | 54 (73%)                          |           | 11 (68.8%)                                   | 60 (72.3%)                                    |           |
| No                | 7 (24.1%)                         | 24 (29.6%)                           |           | 9 (29%)                       | 20 (27%)                          |           | 5 (31.3%)                                    | 23 (27.7%)                                    |           |
| Seizure control   |                                  |                                      | 0.84      |                               | 0.84                              |           |                                               |                                               | 0.5       |
| Recurrent         | 21 (72.4%)                        | 52 (68.4%)                           |           | 21 (72.4%)                    | 48 (67.6%)                        |           | 13 (81.3%)                                   | 53 (66.3%)                                    |           |
| Fluctuating       | 2 (6.9%)                          | 8 (10.5%)                            |           | 4 (13.8%)                     | 7 (9.9%)                          |           | 1 (6.3%)                                     | 9 (11.3%)                                     |           |
| Seizure-free      | 6 (20.7%)                         | 16 (21.1%)                           |           | 4 (13.8%)                     | 16 (22.5%)                        |           | 2 (12.5%)                                    | 18 (22.5%)                                    |           |

*Footnotes Supplementary Table 1: PWE – People with Epilepsy; N – number of caregivers; BDI-II – Beck Depression Inventory-II; BAI – Beck Anxiety Inventory; LAEP – Liverpool Adverse Events Profile; *p*-value for chi-square test of association between categorical variables and for Kruskal-Wallis test of comparison of medians for quantitative variables.*
**Supplementary Table 2.** Sociodemographic and Clinical data (Epilepsy groups and Caregivers), according to epilepsy type.

|                      | FE  | GGE | Caregivers |
|----------------------|-----|-----|------------|
|                      | N = 417 | N = 74 | N = 191 |
|                      | Median [range] | Median[range] | Median [range] |
|                      | or N (%) | or N (%) | or N (%) |
| **Median Age**       | 43 [18-83] | 33 [18-60] | 47 [18-82] |
| **Gender**           |        |      |            |
| Women                | 252 (60%) | 48 (65%) | 137 (72%) |
| Men                  | 165 (40%) | 26 (35%) | 54 (28%) |
| **Employment status**|        |      |            |
| Unemployment         | 269 (65%) | 38 (51%) | 92 (48%) |
| Employment           | 148 (35%) | 36 (49%) | 99 (52%) |
| **Marital Status**   |        |      |            |
| Married              | 189 (45%) | 20 (27%) | 111 (58%) |
| Non-Married          | 228 (55%) | 54 (73%) | 80 (42%) |
| **Years of Education**| 11 [0-18] | 11 [0-18] | 10 [0-18] |
| **Clinical depression**|      |      |            |
| N                    | 372      | 69    | 174        |
| Yes                  | 161 (43%) | 22 (32%) | 56 (32%) |
| No                   | 211 (57%) | 47 (68%) | 118 (68%) |
| BDI-II Score         | 11 [0-57] | 9 [0-49] | 7 [0-56] |
| **Suicidal Ideation**|        |      |            |
| N                    | 404      | 73    | 186        |
| Yes                  | 82 (20%)  | 8 (11%)  | 20 (11%)  |
| No                   | 322 (80%) | 65 (89%) | 166 (89%) |
| **Clinical anxiety** |        |      |            |
| N                    | 376      | 64    | 168        |
| Yes                  | 141 (38%) | 23 (36%) | 55 (33%) |
| No                   | 235 (62%) | 41 (64%) | 113 (67%) |
| BAI Score            | 10 [0-58] | 7 [0-50] | 7 [0-51] |
| **Concurrent clinical depression and anxiety**|  |  | |
| N                    | 346      | 60    | 160        |
| Yes                  | 95 (28%)  | 14 (23%)  | 35 (22%)  |
| BDI-II score         | 24 [14-57] | 30 [14-49] | 24 [14-56] |
| BAI score            | 25 [14-56] | 30 [17-50] | 29 [15-51] |
| **ASD adverse events**|  |  | |
| N                    | 371      | 69    | NA         |
| Yes                  | 100 (27%) | 17 (25%) | 8 (5%)   |
| No                   | 271 (73%) | 52 (75%) | 49 (95%) |

**Footnotes Supplementary Table 2:** FE – Focal Epilepsy; GGE – Genetic Generalized Epilepsy; BDI-II – Beck Depression Inventory-II; BAI – Beck Anxiety Inventory; ASD – Antiseizure Drugs; LAEP – Liverpool Adverse Events Profile; *p-value for chi-square test of association between categorical variables and for Kruskal-Wallis test of comparison of medians for quantitative variables.
### Supplementary Table 3. Clinical Data of PWE according to the seizure outcome.

|                    | Recurrent seizures | Fluctuating | Seizure-free | *p-value |
|--------------------|--------------------|-------------|--------------|----------|
|                    | N = 332            | N = 78      | N = 133      |          |
| Median [range] or N (%) |                  |             |              |          |
| Median Age         | 41 [18-73]         | 40 [18-70]  | 41 [18-83]   | 0.6      |
| Gender             |                    |             |              |          |
| Women              | 200 (60%)          | 44 (56%)    | 82 (62%)     | 0.75     |
| Men                | 132 (40%)          | 34 (44%)    | 51 (38%)     |          |
| Clinical depression|                    |             |              |          |
| N                  | 295                | 74          | 124          |          |
| Yes                | 140 (48%)          | 28 (38%)    | 36 (29%)     | 0.002    |
| No                 | 155 (52%)          | 46 (62%)    | 88 (71%)     |          |
| BDI score          | 13 [0-57]          | 11 [0-41]   | 6 [0-47]     | < 0.001  |
| Suicidal Ideation  |                    |             |              |          |
| N                  | 320                | 77          | 132          |          |
| Yes                | 81 (25%)           | 6 (8%)      | 12 (9%)      | < 0.001  |
| No                 | 239 (75%)          | 71 (92%)    | 120 (91%)    |          |
| Clinical anxiety   |                    |             |              |          |
| N                  | 292                | 71          | 125          |          |
| Yes                | 131 (45%)          | 20 (28%)    | 31 (25%)     | < 0.001  |
| No                 | 161 (55%)          | 51 (62%)    | 94 (75%)     |          |
| BAI Score          | 11 [0-58]          | 8 [0-54]    | 5 [0-48]     | < 0.001  |
| Concurrent clinical depression and anxiety |        |             |              |          |
| N                  | 270                | 67          | 116          |          |
| BDI-II score       | 26 [14-57]         | 21 [14-41]  | 23 [14-47]   | 0.37     |
| BAI score          | 26 [14-56]         | 25 [14-54]  | 23 [14-48]   | 0.35     |
| ASD adverse events |                    |             |              |          |
| N                  | 291                | 73          | 125          |          |
| Yes                | 98 (34%)           | 15 (20%)    | 20 (16%)     | < 0.001  |
| No                 | 193 (66%)          | 58 (80%)    | 105 (84%)    |          |
| LAEP score         | 39 [19-76]         | 34 [19-73]  | 33 [19-73]   | < 0.001  |

*Footnotes Supplementary Table 3: BDI-II – Beck Depression Inventory-II; BAI – Beck Anxiety Inventory; ASD – Antiseizure drugs; LAEP – Liverpool Adverse Events Profile; *p-value for chi-square test of association between categorical variables and for Kruskal-Wallis test of comparison of medians for quantitative variables.*
### Supplementary Table 4. Variables in the equation for Clinical Depressive Symptoms in PWE.

| Factors                           | B   | S.E  | Wald  | df | Sig.    | Exp.(B) | C.I for Exp(B) |
|----------------------------------|-----|------|-------|----|---------|---------|----------------|
| Age                              | 0.001 | 0.009 | 0.009 | 1 | 0.924 | 1.001 | 0.983 1.019 |
| Women                            | 0.505 | 0.236 | 4.579 | 1 | 0.032 | 1.657 | 1.043 2.632 |
| Education (In Years)             | 0.053 | 0.035 | 2.316 | 1 | 0.128 | 1.054 | 0.985 1.128 |
| Unemployment                     | 0.294 | 0.239 | 1.508 | 1 | 0.219 | 1.342 | 0.839 2.146 |
| Type of Epilepsy                 |     |      | 4.411 | 2 | 0.110 |      |                |
| Focal                            | 0.761 | 0.364 | 4.359 | 1 | 0.037 | 2.139 | 1.048 4.369 |
| Unknown                          | 0.732 | 0.476 | 2.368 | 1 | 0.124 | 2.079 | 0.818 5.282 |
| Seizure control                  |     |      | 2.566 | 2 | 0.277 |      |                |
| Recurrent seizures               | 0.434 | 0.276 | 2.459 | 1 | 0.117 | 1.543 | 0.897 2.653 |
| Fluctuating seizures             | 0.408 | 0.373 | 1.199 | 1 | 0.274 | 1.504 | 0.724 3.121 |
| Clinical anxiety symptoms        | 2.082 | 0.234 | 79.076 | 1 | < 0.001 | 8.018 | 5.067 12.685 |
| Constant                         | -3.199 | 0.726 | 19.415 | 1 | < 0.001 | 0.041 |                |

**Footnotes Supplementary Table 4:** PWE – People with Epilepsy; B – Beta; S.E – Standard Error; df – Degrees of Freedom; Exp(B) – Exponential Beta; C.I – Confidence Interval
## Supplementary Table 5. Variables in the equation for Suicidal Ideation in PWE.

| Factors                | B    | S.E  | Wald  | df | Sig. | Exp.(B) | C.I for Exp (B) |
|------------------------|------|------|-------|----|------|---------|-----------------|
| Age                    | -0.025 | 0.010 | 6.197 | 1  | 0.013 | 0.975   | 0.956          |
| Women                  | 0.244 | 0.278 | 0.770 | 1  | 0.380 | 1.276   | 0.740          |
| Unemployment           | 0.463 | 0.290 | 2.546 | 1  | 0.111 | 1.589   | 0.900          |
| Type of Epilepsy       | 5.927 | 2     | 5.27  | 1  | 0.111 | 1.589   | 0.900          |
| Focal                  | 1.151 | 0.492 | 5.48  | 1  | 0.019 | 3.161   | 1.206          |
| Unknown                | 0.748 | 0.624 | 1.437 | 1  | 0.231 | 2.113   | 0.622          |
| Seizure control        | 10.651 | 2   | 0.005 |   |      |         |                |
| Recurrent seizures     | 0.944 | 0.365 | 6.679 | 1  | 0.010 | 2.570   | 1.256          |
| Fluctuating seizures   | -0.220 | 0.587 | 0.140 | 1  | 0.708 | 0.803   | 0.254          |
| Clinical anxiety       | 1.655 | 0.274 | 36.367 | 1  | < 0.001 | 5.233   | 3.056          |
| symptoms               |       |      |       |    |      |         |                |
| Constant               | -3.394 | 0.690 | 24.198 | 1  | < 0.001 | 0.034   |                |

**Footnotes Supplementary Table 5:** PWE – People with Epilepsy; B – Beta; S.E – Standard Error; df – Degrees of Freedom; Exp(B) – Exponential Beta; C.I – Confidence Interval.
### Supplementary Table 6. Variables in the equation for Clinical Anxiety Symptoms in PWE.

| Factors                      | B     | S.E   | Wald  | df   | Sig.   | Exp(B) | C.I for Exp (B) |
|------------------------------|-------|-------|-------|------|--------|--------|-----------------|
| Age                          | 0.006 | 0.009 | 0.439 | 1    | 0.507  | 1.006  | 0.988           |
| Women                        | 0.727 | 0.248 | 8.606 | 1    | 0.003  | 2.068  | 1.273           |
| Education (In Years)         | -0.052| 0.035 | 2.174 | 1    | 0.140  | 0.949  | 0.886           |
| Unemployment                 | 0.407 | 0.251 | 2.642 | 1    | 0.104  | 1.503  | 0.920           |
| Seizure control              |       |       | 7.682 | 2    | 0.021  |        |                 |
| Recurrent seizures           | 0.751 | 0.288 | 6.788 | 1    | 0.009  | 2.120  | 1.205           |
| Fluctuating seizures         | 0.214 | 0.398 | 0.288 | 1    | 0.591  | 1.238  | 0.567           |
| Type of epilepsy             |       |       | 1.962 | 2    | 0.375  |        |                 |
| Focal Epilepsy               | -0.401| 0.364 | 1.214 | 1    | 0.271  | 0.670  | 0.328           |
| Unknown Epilepsy             | -0.007| 0.483 | < 0.001 | 1 | 0.988 | 0.993 | 0.385           |
| Clinical Depressive symptoms | 2.084 | 0.234 | 79.039 | 1 | < 0.001 | 8.034 | 5.075           |
| Constant                     | -2.172| 0.711 | 9.338 | 1    | 0.002  | 0.114  |                 |

**Footnotes Supplementary Table 6**: PWE – People with Epilepsy; B – Beta; S.E – Standard Error; df – Degrees of Freedom; Exp(B) – Exponential Beta; C.I – Confidence Interval
**Supplementary Table 7.** Variables in the equation for combined Clinical Anxiety and Depression Symptoms in PWE.

| Factors                              | B     | S.E   | Wald   | df  | Sig.  | Exp.(B) | C.I for Exp (B) |
|--------------------------------------|-------|-------|--------|-----|-------|---------|-----------------|
| LAEP                                 | 2.983 | 0.291 | 104.904| 1   | 0.000 | 19.755  | 11.162          | 34.964          |
| Seizure control                      |       |       | 1.237  | 2   | 0.539 |         |                 |                 |
| Recurrent seizures                   | 0.341 | 0.353 | 0.931  | 1   | 0.335 | 1.406   | 0.704           | 2.811           |
| Fluctuating seizures                 | 0.000 | 0.510 | 0.000  | 1   | 1.000 | 1.000   | 0.368           | 2.718           |
| Type of epilepsy                     | 0.608 |       | 0.738  | 1   |       |         |                 |                 |
| Focal Epilepsy                       | 0.280 | 0.460 | 0.369  | 1   | 0.543 | 1.323   | 0.537           | 3.260           |
| Unknown Epilepsy                     | 0.457 | 0.594 | 0.593  | 1   | 0.441 | 1.579   | 0.493           | 5.054           |
| Unemployment                         | 0.229 | 0.308 | 0.551  | 1   | 0.458 | 1.257   | 0.687           | 2.300           |
| Women                                | 0.659 | 0.316 | 4.353  | 1   | 0.037 | 1.933   | 1.041           | 3.590           |
| Familial history of epilepsy         | 0.165 | 0.301 | 0.298  | 1   | 0.585 | 1.179   | 0.653           | 2.129           |
| Familial history of psychiatric symptoms | 0.298 | 0.351 | 0.719  | 1   | 0.396 | 1.347   | 0.677           | 2.678           |
| Constant                             | -3.316| 0.596 | 30.914 | 1   | 0.000 | 0.036   |                 |                 |

**Footnotes Supplementary Table 7:** PWE – People with Epilepsy; LAEP – Liverpool Adverse Events Profile; B – Beta; S.E – Standard Error; df – Degrees of Freedom; Exp(B) – Exponential Beta; C.I – Confidence Interval
Supplementary Table 8. Variables in the equation for Clinical Depressive Symptoms in Caregivers.

| Factors                        | B    | S.E  | Wald | df  | Sig. | Exp.(B) | C.I for Exp (B) |
|--------------------------------|------|------|------|-----|------|---------|-----------------|
| Age                            | 0.002| 0.009| 0.039| 1   | 0.844| 1.002   | 0.985 1.019     |
| Women                          | 0.489| 0.229| 4.547| 1   | 0.033| 1.630   | 1.040 2.555     |
| Marital Status (Non-married)   | 0.072| 0.230| 0.099| 1   | 0.753| 1.075   | 0.685 1.687     |
| Clinical anxiety symptoms      | 2.102| 0.225| 86.963| 1  | < 0.001| 8.181 | 5.260 12.724    |
| Constant                       | -1.623| 0.431| 14.163| 1  | < 0.001| 0.197 |                 |

Footnotes Supplementary Table 8: B – Beta; S.E – Standard Error; df – Degrees of Freedom; Exp(B) – Exponential Beta; C.I – Confidence Interval
Supplementary Table 9. Variables in the equation for Anxiety Clinical Symptoms in Caregivers.

| Factors                        | B     | S.E  | Wald  | df | Sig.   | Exp.(B) | C.I for Exp (B) |
|--------------------------------|-------|------|-------|----|--------|---------|-----------------|
| Age                            | 0.006 | 0.009| 0.391 | 1  | 0.532  | 1.006   | 0.988 1.024     |
| Women                          | 0.693 | 0.240| 8.327 | 1  | 0.004  | 1.999   | 1.249 3.201     |
| Education (In Years)           | -0.066| 0.34 | 3.748 | 1  | 0.053  | 0.936   | 0.875 1.001     |
| Marital Status (Non-married)   | 0.502 | 0.238| 4.448 | 1  | 0.035  | 1.652   | 1.036 2.635     |
| Clinical Depressive symptoms   | 2.127 | 0.228| 87.281| 1  | < 0.001| 8.389   | 5.369 13.107    |
| Constant                       | -1.867| 0.622| 9.023 | 1  | 0.003  | 0.155   |                 |

Footnotes Supplementary Table 9: B – Beta; S.E – Standard Error; df – Degrees of Freedom; Exp(B) – Exponential Beta; C.I – Confidence Interval
