## Supporting information

**Supplementary Table 1.** Breakdown of subjects by centres

|  |  |  |
| --- | --- | --- |
|  | **Total count** | **Percentage (%)** |
| UCL | 268 | 34.9 |
| ULB | 90 | 11.7 |
| IGG | 23 | 3.0 |
| EKUT | 72 | 9.4 |
| SEIN | 54 | 7.0 |
| UKB | 2 | 0.3 |
| RCSI | 188 | 24.5 |
| BHSCT | 4 | 0.5 |
| UMCU | 3 | 0.4 |
| ULIV | 63 | 8.2 |

**Supplementary Figure 1**. Distribution of AED start dates



**Supplementary Figure 2**. AED treatment duration.



**Supplementary Table 2.** Order of AED use

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **AED** | **N 1** | **N 2** | **N 3** | **N 4** | **N 5** | **N 6** | **N 7** | **N 8** | **N 9** | **N 10** |
| **CBZ** | 29.2 | 22.4 | 15.7 | 10.6 | 8.5 | 5.6 | 2.6 | 1.9 | 1.8 | 1.8 |
| **CLB** | 7.1 | 12.0 | 10.2 | 11.7 | 11.7 | 10.8 | 8.6 | 8.6 | 5.5 | 13.8 |
| **GBP** | 8.1 | 9.4 | 12.6 | 15.7 | 13.9 | 9.0 | 12.1 | 7.2 | 4.0 | 8.1 |
| **LEV** | 4.6 | 8.4 | 14.3 | 11.4 | 13.9 | 11.0 | 10.2 | 10.5 | 5.7 | 10.0 |
| **LTG** | 9.9 | 14.5 | 16.9 | 16.0 | 11.3 | 12.4 | 7.7 | 5.2 | 2.8 | 3.3 |
| **OXC** | 6.9 | 11.1 | 10.6 | 11.6 | 9.5 | 10.1 | 11.1 | 7.4 | 5.8 | 15.9 |
| **PGB** | 1.6 | 6.3 | 4.7 | 6.3 | 7.1 | 10.2 | 7.9 | 14.2 | 15.7 | 26.0 |
| **TPM** | 5.6 | 8.7 | 9.2 | 11.0 | 13.3 | 15.6 | 12.0 | 9.7 | 6.4 | 8.7 |
| **VGB** | 3.7 | 13.0 | 13.0 | 14.9 | 18.2 | 14.5 | 10.0 | 5.6 | 4.5 | 2.6 |
| **VPA** | 24.0 | 18.7 | 18.4 | 14.6 | 10.6 | 3.6 | 4.7 | 2.3 | 0.9 | 2.2 |

**Supplementary Figure 3**. Frequencies of patients' age distribution



**Supplementary Table 3.** Reasons for AED discontinuation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **AED** | **ADR** | **Both efficacy and ADR** | **Lack of efficacy** | **Other** | **Remission** | **Unknown** |
| **CBZ** | 56 | 11 | 122 | 43 | 17 | 235 |
| **CLB** | 8 | 1 | 35 | 17 | 2 | 108 |
| **GBP** | 10 | 5 | 63 | 7 | 2 | 93 |
| **LEV** | 43 | 24 | 64 | 35 | 3 | 98 |
| **LTG** | 56 | 10 | 103 | 20 | 2 | 157 |
| **OXC** | 31 | 8 | 29 | 8 | 3 | 31 |
| **PGB** | 9 | 5 | 20 | 3 | NA | 24 |
| **TPM** | 57 | 26 | 77 | 26 | 1 | 109 |
| **VGB** | 24 | 6 | 66 | 14 | 5 | 114 |
| **VPA** | 39 | 28 | 119 | 37 | 16 | 214 |