**Table 1** Demographic and laboratory characteristics of patients using levetiracetam

|  |  |
| --- | --- |
| **Age** | 10.93±3.74 (4-17) years |
| **Sex n (%)**  **Male**  **Female** | 16 (53.33%)  14 (46.7%) |
| **Seizure type n (%)**  **Focal**  **Generalised** | 13 (43.3%)  17 (56.7%) |
| **EEG n (%)**  **Normal**  **Abnormal**  **Focal epileptiform discharges**  **Generalised epileptiform discharges** | 6 (20 %)  0 (0%)  13 (43.3%)  11 (36.7%) |
| **Cranial magnetic resonans imaging n (%)**  **Normal**  **Abnormal** | 25 (83.3%)  5 (16.7%) |

**Table 2** Comparison of ECG parameters before and after treatment with levetiracetam

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Pretreatment**  **Mean**±**SD**  **(Min–Max)** | **Posttreatment 6.months**  **Mean**±**SD**  **(Min–Max)** | ***P*  value** |
| **PR interval (sec.)** | 0.136±0.019  (0.11-0.18) | 0.131±0.015  (0.12-0.16) | 0.271 |
| **QTc (sec.)** | 0.411±0.023  (0.4-0.5) | 0.402±0.022  (0.35-0.45) | 0.127 |
| **Heart rate (beat/min.)** | 94.87±12.12  (60-115) | 92.27±9  (71-107) | 0.257 |

**Table 3** Comparison of ECG parameters before and after treatment with levetiracetam between genders

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sex** | **Pretreatment**  **Mean**±**SD**  **(Min–Max)** | |  | **Posttreatment 6.months**  **Mean**±**SD**  **(Min–Max)** | |  |
| **Female** | **Male** | ***P*  value**  **(Pre)** | **Female** | **Male** | ***P*  value**  **(Post)** |
| **PR interval (sec.)** | 0.130±0.015 (0.12-0.16) | 0.140±0.22  (0.11-0.18) | 0.225 | 0.137±0.0149  (0.12-0.16) | 0.131±0.015  (0.12-0.16) | 0.963 |
| **QTc (sec.)** | 0.414±0.024 (0.4-0.5) | 0.408±0.023  (0.4-0.5) | 0.702 | 0.403±0.018 (0.38-0.44) | 0.40±0.025  (0.35-0.45) | 0.815 |
| **Heart rate (beat/min.)** | 96.57±10.70 (80-115) | 93.37±13.41  (60-110) | 0.481 | 92.36±8.168 (75-107) | 92.19±9.94  (71-105) | 0.474 |

**Table 4** Comparison of ECG parameters before and after treatment with levetiracetam between seizure types

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Seizure**  **Type** | **Pretreatment**  **Mean**±**SD**  **(Min–Max)** | |  | **Posttreatment 6.months**  **Mean**±**SD**  **(Min–Max)** | |  |
| **Focal** | **Generalized** | ***P* value**  **(Pre)** | **Focal** | **Generalized** | ***P* value**  **(Post)** |
| **PR interval (sec.)** | 0.140±0.018 (0.12-0.16) | 0.132±0.020  (0.11-0.18) | 0.189 | 0.126±0.012  (0.12-0.16) | 0.134±0.016  (0.12-0.16) | 0.081 |
| **QTc (sec.)** | 0.409±0.023 (0.4-0.5) | 0.412±0.024  (0.4-0.5) | 0.623 | 0.396±0.017 (0.38-0.42) | 0.406±0.024  (0.35-0.45) | 0.966 |
| **Heart rate (beat/min.)** | 90.23±12.61 (60-107) | 98.41±10.79  (78-115) | 0.066 | 92.85±6.90 (85-107) | 91.82±10.52  (71-105) | 0.764 |