Table S1: Seizure severity and serum vitamin level of the patients at baseline and after 1, 3 and 6 months of multivitamin supplementation.

| Characteristics | Baseline | 1 month | 3 months | 6 months |
|-----------------|----------|---------|----------|----------|
| Frequency, 28 days | 8.12±17.24 | 6.26±13.90 | 3.21±6.94 | 2.06±3.89 |
| Response, % | 0 | -19.29±70.53 | -39.53±55.99 | -40.37±57.57 |
| Vitamins | | | | |
| B6, nmol/L | 240.73±233.02 | 189.27±143.49 | 169.68±143.80 | 200.75±237.34 |
| B9, ng/ml | 8.26±4.13 | 37.88±22.63 | 56.62±52.84 | 48.40±32.38 |
| D, ng/ml | 27.70±13.91 | 30.92±12.52 | 34.17±11.89 | 33.90±11.55 |
| E, nmol/mL | 29.46±45.13 | 35.00±56.61 | 40.18±61.03 | 29.47±51.44 |
| Q10, ng/ml | 2,953.44±1,161.09 | 2,742.68±960.48 | 2,332.63±595.32 | 1,725.32±450.91 |

Data are presented as mean±SD. Abbreviations: B6, pyridoxal 5′-phosphate (PLP); B9, total folate; D, total 25-hydroxyvitamin D; E, total human vitamin E; Q10, total coenzyme Q10.
Figure S1: Correlations between serum vitamin levels in the refractory epilepsy patients.

**Correlations between vitamin levels and treatment response**

|       | vit. B6 | Folate | Vit. D | Vit. E | Co-Q10 | Frequency | Response |
|-------|---------|--------|--------|--------|--------|-----------|----------|
| vit. B6 | 1.000  | -0.096 | -0.365 | 0.128  | -0.036 | 0.181     | -0.041   |
| Folate | -0.095 | 1.000  | 0.105  | 0.010  | **-0.286** | -0.085  | 0.158    |
| Vit. D | -0.365 | 0.105  | 1.000  | -0.025 | -0.194 | -0.152    | -0.339   |
| Vit. E | 0.128  | 0.010  | -0.025 | 1.000  | -0.032 | -0.021    | 0.133    |
| Co-Q10 | -0.036 | **-0.286** | -0.194 | -0.032 | 1.000  | 0.072     | 0.345    |