

## SUPPLEMENTARY DATA

**Table S1:** Demographic data of patients (with valproic acid monotherapy) in the hepatotoxicity and control groups

| Demographic characteristics | Cases           | Control        | <i>P</i> value |
|-----------------------------|-----------------|----------------|----------------|
| Number of patients          | 36 (32.1 %)     | 76 (67.9 %)    | N/A            |
| Age (yrs)                   | 5.04 ± 3.28     | 4.66 ± 2.88    | 0.521          |
| Height (cm)                 | 109.00 ± 37.26  | 102.58 ± 25.18 | 0.353          |
| Body weight (kg)            | 25.14 ± 9.92    | 21.42 ± 10.01  | 0.068          |
| BMI (kg/m <sup>2</sup> )    | 20.25 ± 5.51    | 19.60 ± 6.73   | 0.617          |
| TP (g/L)                    | 68.56 ± 8.08    | 66.89 ± 5.17   | 0.262          |
| ALB (g/L)                   | 42.54 ± 8.73    | 42.73 ± 3.71   | 0.897          |
| TBiL (μmol/L)               | 9.35 ± 6.88     | 6.84 ± 2.48    | 0.040          |
| GGT (U/L)                   | 47.58 ± 37.45   | 17.92 ± 13.69  | <0.001         |
| ALP (U/L)                   | 188.28 ± 131.26 | 185.95 ± 59.95 | 0.920          |
| ALT (U/L)                   | 85.00 ± 45.27   | 12.82 ± 7.09   | <0.001         |
| AST (U/L)                   | 98.97 ± 67.48   | 25.49 ± 6.60   | <0.001         |
| GSH (μmol/L)                | 33.52 ± 4.46    | 48.10 ± 3.76   | <0.001         |
| TBARS (μmol/L)              | 2.31 ± 0.44     | 2.07 ± 0.36    | 0.006          |

The bolded data indicated  $P < 0.05$

**Table S2:** Comparison of serum trace elements in hepatotoxicity and control groups (with valproic acid monotherapy)

| Trace elements | Cases (n = 36) | Control (n = 76) | <i>P</i> value |
|----------------|----------------|------------------|----------------|
| Co (ng/mL)     | 0.66 ± 0.12    | 0.72 ± 0.13      | 0.041          |
| Cr (ng/mL)     | 1.58 ± 0.45    | 1.69 ± 0.54      | 0.275          |
| Cu (μg/mL)     | 1.26 ± 0.21    | 1.25 ± 0.17      | 0.722          |
| Fe (μg/mL)     | 1.25 ± 0.13    | 1.16 ± 0.12      | <0.001         |
| Mn (ng/mL)     | 1.95 ± 0.35    | 1.93 ± 0.26      | 0.842          |
| Mo (ng/mL)     | 1.56 ± 0.23    | 1.62 ± 0.18      | 0.185          |
| Se (ng/mL)     | 96.89 ± 11.17  | 106.92 ± 10.31   | <0.001         |
| Sr (ng/mL)     | 38.61 ± 10.53  | 40.03 ± 8.91     | 0.457          |
| Zn (μg/mL)     | 0.84 ± 0.10    | 0.87 ± 0.12      | 0.180          |

The bolded data indicated  $P < 0.05$