Table

Anti-tubercular drugs plasma concentration and therapeutic range references.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Anti tubercular drugs  | Time after dose, h(Cmax, Ctrough) | Patient 1dose mg/day | Patient 1Drug plasma concentration mg/L | Patient 1 AUC0-24 (hr\*mg/L) | Patient 2dose mg/day | Patient 2Drug plasma concentration mg/L | Patient 2 AUC0-24 (hr\*mg/L) | Expected therapeutic references mg/L(Cmax and Cut-off Cmax) | Expected range of AUC0-24 (hr\*mg/L) |
| Isoniazid  | 2 |  300 (4.6)\* | 0.395 | 4.75 | 250 (6.4)\* | 5.05 | 37.61 | Cmax 9-15[5]Cut-off Cmax 3.0 [5] | 10.52 -111.80 [8,9] |
| 5 | ND | 2.2 |
| 24 | < 0.007 (LOD) | 0.03 |
| Rifampin  | 2 |  600 (9.2)\* | 9.671 | 116.40  | 600(15)\* | 12.67 | 145.37 | Cmax 9.65- 24.99 [6]Cut-off Cmax 8.0 [7] | 47.40.-142.73 [6] |
| 5 | ND | 9.64 |
| 24 | 0.029 | 0.72 |
| ethambutol  | 2 |  1200 (18.5)\* | 4.547 | 54.58 | 1000 (25)\* | 7.08 | 57.43 | Cut-off Cmax 2.0 [6] | ND |
| 5 | ND | 2.94 |
| 24 | < 0.010 (LOD) | 0.70 |
| pyrazinamide  | 2 | 2000 (30.7)\* | 47.269 | 5832.50 | 1000 (25)\* | 32.53 | 337.22 | Cmax 21.70- 42.64 [6]Cut-off Cmax 35.0 [7] | 303.35-541.36 [6] |
| 5 | ND | 21.54 |
| 24 | 13.346 | 1.84 |

Note: area under the concentration-time curve (AUC0-24); lower limit of detection (LOD);

 \*mg per Kg per day; ND=unavailable.