Supplementary Material

Application of Plasma Metagenomic Next-generation Sequencing Improves Prognosis in Hematology Patients with Neutropenia or Hematopoietic Stem Cell Transplantation for Infection

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Table S1 Detection positive rates of pathogen in HSCT and non-HSCT groups

|  |  |  |  |
| --- | --- | --- | --- |
| Pathogen | Group | Positive Rate | P Value |
| Total | HSCT | 84.44% | 0.259 |
| Non-HSCT | 90.74% |
| Bacteria | HSCT | 33.3% | 0.664 |
| Non-HSCT | 37.0% |
| Virus | HSCT | 20.0% | 0.959 |
| Non-HSCT | 20.4% |
| Fungi | HSCT | 62.2% | 0.179 |
| Non-HSCT | 73.1% |

Table S2 Comparison of Adjustment and non- Adjustment groups

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Hospitalization Day, Median (quartile) | Time of  Neutropenia, Median (quartile) | CRP, Median (quartile) | PCT, Median (quartile) | IL-6, Median (quartile) |
| Adjustment | 50(35-73.5) | 7 (0-20) | 95(44.9-154) | 0.47(0.27-1.46) | 112.2(39.8-258.5) |
| Non- adjustment | 43(28-72) | 0(0-7) | 69.39(18-118) | 0.505(0.17-1.55) | 71.85(17.9-226.3) |
| P Value | 0.275 | **0.002** | **0.048** | 0.684 | 0.161 |

Table S3 Comparison of HSCT and non- HSCT groups

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Time of  Neutropenia, Median (quartile) | CRP, Median (quartile) | PCT, Median (quartile) | IL-6, Median (quartile) |
| HSCT | 2(0-7) | 73.9(17.9-145) | 0.61(0.34-2.52) | 65.9(16.4-296) |
| Non- HSCT | 0(0-13.5) | 76.25(23.45-137) | 0.43(0.18-1.16) | 106.1(31.7-208) |
| P Value | 0.842 | 0.992 | 0.124 | 0.596 |