**Table 3.** Binary regression model for risk factors influencing mortality after COVID-19 diagnosis in pediatric allogeneic HSCT recipients

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Univariate | | Multivariate | |
| Variable | Events | OR  (95% CI) | *p*  value | OR  (95% CI) | *p*  value |
| Age (years)  0.0-5.0  5.1-10.0  10.1-15.0  >15.0  Sex  Male  Female  Diagnosis  Malignant  PIDa  Other nonmalignant  Donor  Related  Unrelated  HLAb match  Well (10/10)  Partially (9/10)  Mismatched (≤8)  Conditioning  Myeloablative  Reduced  GVHDc prophylaxis  Calcineurin inhibitors based  PTCyd  T-cell depletion (in vivo/ex-vivo)  No  Yes  At COVID-19 diagnosis  aGVHD grade ≥2  No  Yes  cGVHD  No  Yes  Corticosteroid usage  No  Yes  Comorbidity  No  Yes  Time after HSCT to COVID-19 diag.  -3-100 days  101-180 days  >180 days  LRTDe  No  Yes  MIS-Cf  No  Yes  ANCg (µL)  ≤0.5.103  0.501-0.999.103  ≥1.103  ALCh (µL)  ≤0.2.103  0.201-0.499.103  ≥0.5.103  Platelet (µL)  ≤75.103  76-149.103  ≥150.103 | 2/46  2/65  1/37  4/36  5/118  4/66  6/108  2/25  1/51  5/102  4/82  1/112  5/45  3/27  9/166  0/17  7/150  2/30  10/150  3/58  4/132  5/49  9/170  0/11  4/124  3/49  6/135  5/58  4/40  2/43  3/101  2/128  7/56  6/176  3/8  3/24  1/11  5/149  4/25  3/23  2/136  4/40  4/47  1/97 | 1.00  0.70 (0.09-5.15)  0.61 (0.05-7.01)  2.75 (0.47-15.94)  1.00  1.46 (0.38-5.63)  1.00  1.48 (0.28-7.80)  0.34 (0.04-2.90)  1.00  0.99 (0.26-3.83)  1.00  13.87 (1.57-122.40)  13.87 (1.38-139.19)  1.00  0.95 (0.82-1.32)  1.00  1.46 (0.29-7.39)  1.00  0.69 (0.14-3.46)  1.00  3.64 (0.93-14.15)  1.00  1.00 (0.98-1.02)  1.00  2.73 (0.70-10.55)  1.00  1.40 (0.34-5.84)  3.63 (0.77-17.01)  1.59 (0.26-9.89)  1.00  1.00  9.00 (1.81-44.83)  1.00  17.00 (3.28-88.23)  4.11 (0.91-18.49)  2.88 (0.31-27.07)  1.00  12.76 (2.20-74.07)  10.05 (1.58-63.91)  1.00  10.67(1.15-98.66)  8.93 (0.97-82.27)  1.00 | 0.331  0.725  0.692  0.259  0.584  0.494  0.645  0.324  0.994  0.049  0.018  0.025  0.607  0.648  0.656  0.063  1.000  0.146  0.642  0.251  0.102  0.617  0.007  0.001  0.161  0.065  0.355  0.012  0.005  0.014  0.102  0.037  0.053 | -  -  -  -  1.00  8.84 (0.82-95.05)  8.42 (0.63-111.62)  -  -  -  1.00  3.01 (0.52-17.44)  -  -  -  -  1.00  1.85 (0.24-14.14)  1.00  9.55 (1.06-86.21)  -  10.66 (1.25-90.67)  4.01 (0.43-37.26)  1.00  - | 0.174  0.072  0.106  0.219  0.554  0.044  0.096  0.030  0.222 |

a*PID*, primary immunodeficiency; b*HLA*, human leukocyte antigen; c*GVHD*, graft-versus-host disease; d*PTCy*, posttransplant cyclophosphamide; e*LRTD*, lower respiratory tract disease; f*MIS-C*, multisystem inflammatory syndrome in children; g*ANC*, absolute neutrophil count; h*ALS*, absolute lymphocyte count