First-Year Incidence of Double-Stranded DNA Virus Infections Following Hematopoietic Cell Transplantation

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INTRODUCTION

Acute lymphoblastic leukemia 232 (14.9%) patients were diagnosed during a subsequent readmission. Among 351 autologous HCT recipients with dsDNA viral infections, 65 (18.5%) patients were diagnosed following a healthcare visit in another place of service (i.e., a non-hospital setting). Among the 604 allogeneic and 351 autologous HCT recipients with an ICD-9 code for dsDNA viral infections, median (IQR) time to first dsDNA viral infection was 70.2 (73.1) and 112.1 (108.9) days, respectively. Median time to first dsDNA viral infection was 50 and 75 days, respectively (Figure 2).

RESULTS

Rate of dsDNA viral infection

904 of 3235 (28.0%) allogeneic HCT recipients and 351 of 4732 (7.3%) autologous HCT recipients had at least one dsDNA viral infection during the 365 day post transplant period (Table 3).

CONCLUSIONS

Almost half of the dsDNA viral infections were diagnosed during initial transplant admission or subsequent readmission. Among the 604 allogeneic and 351 autologous HCT recipients with an ICD-9 code for dsDNA viral infections, median (IQR) time to first dsDNA viral infection was 70.2 (73.1) and 112.1 (108.9) days, respectively. Median time to first dsDNA viral infection was 50 and 75 days, respectively (Figure 2).

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DISCLOSURES

Table 1: Incidence of diagnosis of double-stranded DNA viral infection within 365 days post-transplantation in allogeneic and autologous hematopoietic cell transplantation (HCT) recipients

Table 2: Time to first documented double-stranded DNA viral infection diagnosis within 365 days post-transplantation in allogeneic and autologous hematopoietic cell transplantation (HCT) recipients

Figure 2. Kaplan–Meier curves for time to dsDNA viral infection following hematopoietic cell transplantation (HCT) in allogeneic (a) and autologous (b) HCT recipients. Median time to first dsDNA viral infection was 50 and 75 days, respectively (b) for allogeneic HCT recipients, with 3 of 10 patients diagnosed during the initial transplant admission. Median time to first dsDNA viral infection was 70.2 (73.1) and 112.1 (108.9) days, respectively (b) for allogeneic and autologous HCT recipients, respectively.