

Table 1: Patient characteristics (N=9)

Demographics	Values
Age, median (range) (y)	49(13-69)
Male sex, n(%)	5(55)
Caucasian, n(%)	6(67)
Hispanic, n(%)	3(33)
Type of malignancy, n(%)	
Diffuse Large B cell Lymphoma	3(33)
Follicular Lymphoma	1(11)
B cell Acute Lymphoblastic Leukemia	2(22)
T cell Acute Lymphoblastic Leukemia	1(11)
Chronic Lymphocytic Leukemia	1(11)
Metastatic sarcoma	1(11)
Clinical characteristics, n(%)	
Chemotherapy within 3mo of CAR-T.	6(67)
Prior hematopoietic stem cell transplant	6(67)
Lab findings, n(%)	
Lymphopenia <1000/mm ³	6(67)
ANC<500/mm ³	4(44)
Albumin, median(range, mg/dl)	3.5(2.7-4.1)
IgG <400mg/dl,receiving IVIG	8(89)*

*IgG levels not documented for the 9th patient

Table 2: CAR-T related factors

CAR-T related factors,n(%)	Values
Cyclophosphamide/Fludarabine conditioning	8(89)
Type of car T	
Anti-CD19 (CD4,CD8)	6(67)
CD8+ cytotoxic T cells	1(11)
Cord blood Natural Killer cells	2(22)
CAR-T toxicities	
Cytokine release syndrome	5(55)
Car T related encephalopathy syndrome	1(11)
Immune related colitis	1(11)

Table 3: NoV Genotypes

NoV Genotypes	Number of patients (n)
GII.2(P16)	2
GII.4(P31)	2
GII.6(P7)	1
GII.12(P16)	1

Conclusion. NoV belonging to various genotypes is an important cause of acute and chronic diarrhea in patients receiving CAR-T cell therapy.

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1099. Opportunistic Infections Among Long Term Survivors of Kidney Transplantation: Defining Risk Factors

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Background. Opportunistic infections (OIs) in kidney transplant recipients (KTR) most commonly occur in the early post-transplant period or with increased immunosuppression, largely as a result of impaired T-cell function. Additionally, age confers susceptibility to infection independent of time post-transplant. The combined impact of cumulative immunosuppression and immunosenescence on infection risk of long-term KT survivors has not been well described.

Methods. We performed a retrospective chart review of patients age ≥ 18 years who underwent KT between 2003 to 2009 and who survived ≥ 10 years post-KT, in order to evaluate the risk factors for OIs. Demographics, comorbidities, immunosuppression, and clinical data for OIs occurring ≥ 10 years of KT were collected. AST ID Working Group on Infectious Disease Monitoring definitions for OIs was used. Risk factors for OIs were assessed by simple logistic regression.

Results. Of 332 KTR, 16 (4.8%) had an OI with 18 total episodes. Of 16 KTR, half were white, 10 (62.5%) were male, median age at time of transplant was 43 (range 25-72) and the median post-transplant follow-up was 14.2 years (range 10.3-37.6). The mean Charlson Comorbidity Index (CCI) at diagnosis was 5.6 (S.D. 3.6). Ten patients (62.5%) were on mycophenolate-based regimens. The mean absolute lymphocyte count (ALC) at the time of OI was 0.78 x 10³/μL (S.D. 0.43). Two (12.5%) had acute rejection within 1 year of OI. Of 18 OI episodes, there were 6 PJP, 2 candida esophagitis, 3 CMV (2 viremia, 1 colitis), 2 cryptococcal infections (1 meningitis, 1 myositis/disseminated), 2 adenovirus (pneumonia, colitis), 2 VZV (herpes zoster) and 1 HSV (esophagitis). Two patients had 2 concurrent OIs (1 had PJP and cryptococcus and 1 had HSV and candida esophagitis). Three died within 30-days of OI diagnosis. OI incidence was associated with years from date of transplant [OR 1.3, p=0.002], cerebrovascular disease [OR 4.45, p=0.02], and lower ALC [OR 5.9, p < 0.05]. CCI also trended towards association [OR 1.24, p=0.09].

