Treatment regimens*					
Received a sulfonamide for some portion of treatment, n (%)	24 (92)				
Received an oxazolidinone for some portion of treatment, n (%)	19 (73)				
Maintenance immunosuppression reduced, n (%)*					
Tacrolimus reduced/held, n (%)	5 (23)				
Mycophenolate mofetil reduced/held, n (%)	10 (45)				
Prednisone reduced/held, n (%)	2 (9)				
More than one immunosuppressive agent reduced/held, n (%)	5 (23)				
Outcome, n (%)**					
Resolution of infection without relapse	19 (73)				
Relapsed infection	1 (4)				
Treatment ongoing	2 (8)				
Expired	4 (15)				
Expired at 30 days from Nocardia diagnosis	1 (25)				
Expired at 180 days from Nocardia diagnosis	3 (75)				
*treatment data not available for 1 subject					

Conclusion. The epidemiology and risk factors for nocardiosis in this SOT cohort are consistent with established literature. Less than a third of cases occurred in subjects who had received lymphocyte-depleting induction immunosuppression; however, most subjects were lymphocytopenic at diagnosis. While nearly all subjects received a sulfonamide as part of their treatment, the majority also received an agent from the newer drug class of oxazolidinones. Overall outcomes were positive, but treatment varied, thus limiting the ability to determine if a particular combination regimen is beneficial. Multicenter randomized studies are needed to better address knowledge gaps particularly pertaining to treatment.

Disclosures. All Authors: No reported disclosures

1082. Characterization of Ceftriaxone-Resistant Viridans Streptococci Bacteremia Among Patients at a Comprehensive Cancer Center

Paula Marsland, MS¹; Rupali Jain, PharmD²; Frank Tverdek, PharmD³; Paul Hendrie, MD, PhD¹; Catherine Liu, MD⁴; Steven A. Pergam, MD, MPH⁴; Lori Bourassa, PHD MPH¹; ¹University of Washington, Sohool of Medicine, Seattle, WA; ³Seattle Cancer Care Alliance, Seattle, Washington; ⁴Fred Hutchinson Cancer Research Center; University of Washington, Seattle, Washington

Session: P-49. Infections in Immunocompromised Individuals

Background. Viridans streptococci (VS) are opportunistic oral commensals and a common cause of bacteremia, particularly in neutropenic patients. We sought to investigate the prevalence of ceftriaxone (CTX) resistance in VS blood isolates at our medical center among patients with cancer or treated with hematopoietic cell transplant (HCT), and to describe treatment and clinical course.

Methods. In this retrospective single center cohort study, we identified CTX-resistant (CTX-R) VS isolates among patients between January 2005 – June 2020. VS in blood cultures were identified using a combination of biochemicals and mass spectrometry. Susceptibility testing was performed by Kirby Bauer and E-Test. Demographic data, clinical outcomes, and antimicrobial use, including prophylactic, empiric treatment and definitive therapy choices were assessed through electronic medical record review.

Results. Of unique VS with sensitivities (n=693), 27 (3.9%) patients had confirmed CTX-R VS bacteremia over the 15-year period; the majority were S. mitist (23/27 [85%]). 17 (63%) were cancer center patients, of whom 15/17 (88%) had a known hematologic malignancy, 11 (65%) had undergone HCT, and 15 (88%) were neutropenic (absolute neutrophil count ≤500 cells/microliter). Of CTX-R strains, 15/17 (88%) had concomitant resistance to penicillin, erythromycin (12 [71%]), and levofloxacin (12 [71%]); all were sensitive to vancomycin. Most were on levofloxacin prophylaxis (11/17 [65%]) at the time of diagnosis. Initial empiric antibiotic choices primarily included cefepime, ceftazidime, or meropenem, with 16/17 (94%) receiving concomitant empiric vancomycin; 14/17 (82%) were de-escalated to vancomycin once sensitivities were obtained. 2/17 (12%) patients died within 30 days of CTX-R VS bacteremia. Despite increasing susceptibility testing among VS isolates, there did not appear to be an increase in the percentage of CTX-R over time.

Conclusion. VS is a common pathogen in neutropenic cancer patients treated with chemo and/or BMT, and multi-drug resistant CTX-R strains are of concern. In the modern era of ambulatory cancer care, prescribers must be cautious using ceftriaxone monotherapy in the absence of susceptibility information, particularly among patients with hematologic malignancies.

Disclosures. Steven A. Pergam, MD, MPH, Chimerix, Inc (Scientific Research Study Investigator)Global Life Technologies, Inc. (Research Grant or Support)Merck & Co. (Scientific Research Study Investigator)Sanofi-Aventis (Other Financial or Material Support, Participate in clinical trial sponsored by NIAID (U01-AI132004); vaccines for this trial are provided by Sanofi-Aventis)

1083. Clinical Efficacy of Tedizolid for the Treatment of Mycobacterium abscessus complex Infections in Solid Organ Transplant Recipients

Yi Kee Poon, PharmD¹; Marguerite Monogue, PharmD¹; James Sanders, PharmD¹; Ricardo M. La Hoz, MD²; ¹University of Texas Southwestern Medical Center, Arlington, Texas; ²University of Texas Southwestern, Dallas, TX

Session: P-49. Infections in Immunocompromised Individuals

Background. Mycobacterium abscessus complex is a rapidly growing mycobacteria notoriously refractory to therapy due to inherent antimicrobial resistance mechanisms. Tedizolid is an oxazolidinone with *in vitro* activity against many nontuberculous mycobacteria species, including *M. abscessus* complex. This study describes the clinical outcomes of solid organ transplant (SOT) recipients with *M. abscessus* complex infection treated with tedizolid at a single medical center.

Methods. This retrospective cohort study included adult SOT recipients who met the ATS/IDSA criteria for nontuberculous mycobacterial infection and were treated with a multi-drug regimen that included tedizolid for at least four weeks between January 1, 2010 to August 31, 2019. Symptomatic improvement was defined as either decreased cough or sputum production for pulmonary infection and decrease in size of the primary lesion for skin or surgical site infection. The criteria for a microbiologic response was more than one negative culture with the causative species and sustained until the end of treatment. Clinical cure was defined as improvement of symptoms without proven negative cultures during and sustained until the end of treatment. A patient was considered cured if both symptomatic (if applicable) and microbiologic criteria were fulfilled. The clinical outcomes were compared from the initiation of tedizolid-containing regimen to the end of any M. abscessus complex treatment.

Results. Twelve patients were included. *Mycobacterium abscessus abscessus* (7/12, 58%) was the most common subspecies. The distribution of infections were as follows: five (42%) disseminated infections, five (42%) pulmonary infections, five (42%) surgical site infections, and four (33%) skin and soft tissue infections. Six patients were cured or clinically cured for all sites of infection (50%), three patients died (25%), and one patient had two recurrences (Table 1).

Table 1. Patient demographics and outcomes of M. abscessus complex infection.

Pt	Age, yrv Sex	type (days since transplant)*	Co- morbidities	the initial regimen, (MIC)	Companion drugs ^b (MIC)	Marcolide Suceptibiliy	Site(s) of Infection	Species isolated	Surgical intervention/ Source removal	Symptomatic	Radiographic/ Bronchescopy	(days to negative culture)	Clinical outcome							
1	58 F	Bilateral lung (108 d)	DM, HTN	No (32)	Imipenen (16), tigecycline (0.25)	R (sadscable)	Surgical site	M. abscessed species	No	Yes	NA	NA	Clinical cur							
2	55 F	Bilateral lung (221 d)	DM, HTN		Imipenem (8), tigocycline (0.5)	R (inducible)	Bacterenza	M. abscessus abscessus	No	NA	NA	Yes (5 d²)	Cure							
				Yes (32)			Polmonary colonization	M. abscessus bolleti	No	No	NA	Yes (171 d ^a)	NA							
								ssm	M. abscessus abscessus	No	Yes	NA	NA	Clinical eu						
3	64 F		Heart (38 d)	Heart	Heart	Heart	Heart	Heart	Heart	HTN ESRD	Yes	Amikacia intravenous	s	CLABSI	M. abscesna species	Yes	NA	NA	Yes (23 d°)	Cure
,				HIN ESKD	(16)	(16), impenen (8)		Stemal osteomyelitis	M. abscessus bolleti	Yes	Yes	Improved	Yes (15 d²)	Curr						
4	43 M	Bilateral lung (177 d)	DM, HTN, Stroke								Bacteremia		No	NA	NA	Yes (32 d²)				
				Yes (32)	Impenen (8). tigecycline (0.5)	s	ssn	M. abscessus maznilense	Yes	Yes	NA	NA	Death							
								Polmonary colonization		No	No	NA	Yes (22 d²)							
5	28 M	Bilateral lung (0 d)	DM, CF	No (16)	Amitacus subaled (32), bodaquiline (NT), clofazimne (>16), impeness (32), tigecycline (0.12)	R (sadsoble)	Pulmonary (pre- transplant)	M obccessus species	Yes	Yes	Improved	Yes (NA d)	Cure							
							Surgical site		Yes	Yes	NA	NA	Clinical co							
6	58 M	Re- transplant, bilateral lung (31 d)	transplant, bilateral lung	transplant, bilateral lung	transplant.	DM, HTN	Yes (32)	'es Impenen (8).	R	Prámousry (pre- retransplant)	M. abcessus	Yest	No	Improved*	2600	Death				
					204,1111	(32)	tigecycline (0.25)		Surgical Site	abscesses	Yes	Ne	NA	NA	Deeple .					
	28 F	Bilateral httpg (1178 d)	Bilateral hang (1178 d)							Polmonary (pre- tranplant)		Yes	No	Improved*	Nob	Failure				
7				DM, CF	No (2)	Bedaquilme (NT), impenen (16), tigecycline (0.25)	R (inducible)	Pidmonary (hang allograft)	M. abscessus abscessus	Yes	No	Improved*	NA	Fasher						
																Surgical Site' stemal outeomyehris		Yes	Yes	NA
8	77 M	77	Single lung (1045 d)	Single Imag	HTN, COPD	Yes	Azifaromycia (0.5),	5	Bacterennia	M. abscessus	No	NA	NA	Yes (5 df)	Cure					
		(1045 d)			(8)	imipenem (64)		SSTI	abscesses	No	Yes	No	NA	Clinical cu						
9	66	Bilateral	DM, HTN,	Yes	Imperen (8).	R	Polmonary colonization	M. abscessus abscessus	No	NAF	NA	Y (177 d ^a)	NA							
	М	lang (233 d)	Liver disease	(>32)	tigecycline (0.5)	(inducible)	Surgical site		Yes	Yes	NA	NA	Clinical cu							
10	74 M	Single long (600 d)	HTN, chronic anerzia	No (8)	Azifaromycia (0.5), bedaqualine (NT)	s	Polmonary	M. abscessus massiliense	No	No	Worsened	Yes (610 d*)	Desth							
11	71 M	Single lung (68 d)	DM, HTN, COPD, chronic anemia	Yes (16)	Imipesem (8), tigecycline (0.25)	S	Polmonary (empyema)	M. abscessus massifierus	Yes	Yes	Improved	NA	Clinical cu							
12	78	Single Img	DM, HTN	Yes	Impenen (16), tigecycline (0.25)	R	Bacteenza	M. abscessus	N	NA	NA	Yes (68 d²)	Recurrence							
	М	(200 d)	300,000	(32)		(inducible)	SSTI	abscusses	No	Yes	NA	NA								

Blood cultures Brouchoelveoler lavage (BAL) cultur

... Transplant TZD in

Abbreviations CLABSI, central line-associated bloodstream infection. CF, cystic fibrous; COPD, chronic obstruction polaneumy disease; DM, diabetes; ESRD, end-stage renal disease; HTN, hypertension; I, intermediate, MC, minimum inhibitory concentration in mag ind., NA, not applicable; NT, not rested. Pc, potent; R, resistant; S, susceptible; SSTI, skin and out insure infection.

Conclusion. Most patients had multiple sites of infection, and treatment required combination antimicrobial therapy and appropriate surgical management. In this small cohort, tedizolid-containing regimens demonstrated a potential benefit in symptomatic and microbiologic improvement in SOT recipients with *M. abscessus* complex infection.

Disclosures. All Authors: No reported disclosures

^{*}Secondary to transplant *Positive spatian culture pue-transplant and negative BAL cultures post-transplant *Absence of symptoms initially

<sup>Absence of symptoms initially
At the initiation of tedizolid
Patient initiated tedizolid-continuing regiment prior to transplant</sup>