

Clinical Outcomes	Unique Courses of TZD N = 102
Favorable Outcome (No ADRs requiring discontinuation + clinical cure)	82 (80.4%)
Adverse events requiring discontinuation	8 (8.0%)
Thrombocytopenia	3
GI intolerance	2 ^a
Confusion	1 ^b
Eosinophilia	1 ^b
Thrombocytopenia + lactic acidosis	1
In hospital death/transfer to hospice	5 (4.9%)
Failed therapy/readmission	2 (2.0%)
Ongoing Suppression	1 (1.0%) ^c
Thrombocytopenia	
>50% decrease during treatment course	11 (10.8%)
Total platelets < 50K (Baseline platelet range 16 – 86)	11 (10.8%)
>50% decreased AND total platelets <50K	3 (2.9%)
83K → 40K	
16K → 5K	
86K → 26K	
Baseline Platelets > 100K with >50% decrease	8/85 (9.4%)
Baseline Platelets < 100K with >50% decrease	3/17 (17.6%)

^a Both cases were the same patient who subsequently tolerated 31 day treatment course

^b Persisted after TZD discontinuation and later determined to be unrelated to TZD

^c >350+ days

Conclusion. The safety of prolonged TZD treatment is not well-described. In our experience, TZD was well-tolerated, including among pts who failed alternative therapy. No pt receiving concomitant serotonergic agents developed serotonin syndrome and thrombocytopenia occurred exclusively among pts with low baseline platelets. Treatment courses >14 days were not associated with an increase in the rate of AEs.

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1628. Treatment Heterogeneity in Pseudomonas aeruginosa Pneumonia
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Session: P-71. Treatment of Antimicrobial Resistant Infections

Background. Serious bacterial infections present a unique challenge for studies of real-world evidence. Often, the causative organism is unknown during the initial period of treatment and clinical symptoms change day-to-day, which lead to multiple changes in therapy. While it is assumed approaches to treating specific infectious diseases are mostly similar, we've previously identified substantial treatment heterogeneity, even among organism-specific and site-specific infections.

Methods. Our retrospective cohort study included inpatients with positive *P. aeruginosa* from sputum and bronchoalveolar lavage cultures collected during VA medical center and community living center stays from 01/15-04/18. We included the first positive culture during the admission per patient. Daily antibiotic exposures were mapped from 3 days prior to the culture collection date until discharge or 30 days for longer stays. Heterogeneity was defined as patterns of antibiotic treatment (drug and duration) not shared by any other patient.

Results. Our study included 5,435 patients and 87.4% of patients had different patterns of antibiotic drug and duration. Among patients with changes in therapy (84.0%), 96.9% had different antibiotic treatment patterns, with a median time to first change of 1 day and median of 3 changes. When restricting the analysis to antibiotic classes (rather than drug), Gram-negative antibiotics, and anti-pseudomonal antibiotic classes, heterogeneity was 81.8%, 52.0%, and 48.7%, with median time to first change of 1, 3, and 3 days, and a median of 3, 2, and 2 changes, respectively.

Conclusion. Among inpatients with positive *P. aeruginosa* respiratory cultures, substantial heterogeneity was observed in the national VA Healthcare System. Even at the class level, and restricting the analysis to anti-pseudomonal antibiotic classes, approximately 50% of patients had different treatment patterns during their inpatient stay. Current methods to assess treatment do not adequately account for the extensive heterogeneity observed in infectious diseases and it remains unclear how local or national treatment guidelines affect heterogeneity.

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1629. Vancomycin Resistance in Enterococcus faecium Clinical Isolates Responsible for Bloodstream Infections in US Hospitals Over Ten Years (2010-2019) and Activity of Oritavancin

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Session: P-71. Treatment of Antimicrobial Resistant Infections

Background. *Enterococcus faecium* (EFM) causes difficult-to-treat infections due to its intrinsic resistance (R) and ability to acquire R to many antimicrobials. This study evaluated the vancomycin (VAN)-R rates over time and the activity of oritavancin (ORI) against a collection of EFM causing bloodstream infections (BSI).

Methods. A total of 1,081 BSI EFM isolates collected from 36 US hospitals in a prevalence mode design during 2010-2019 were evaluated. Bacterial identification was confirmed by MALDI-TOF MS. Susceptibility testing was performed by reference broth microdilution. For comparison, the ORI breakpoint for VAN-susceptible *E. faecalis* was applied to EFM. Isolates were characterized as VanA or VanB phenotypes based on their susceptibility (S) to VAN and teicoplanin (TEC). The VanB phenotype was confirmed by PCR and/or whole genome sequencing.

Results. Overall, 72.3% (782/1,081) of EFM were VAN-R (Table). VanA was the most common phenotype (97.7%; 764/782). The yearly VAN-R rates decreased from 81.8% in 2010 to 58.7% in 2019. A total of 18 (2.3%) isolates exhibited a VanB phenotype (TEC MIC, 0.5-8 mg/L); however, the *vanB* gene only was confirmed in 9 EFM isolates (TEC MIC, 0.5-1 mg/L), which were all collected in 2010-2012. The remaining 9 (50.0%) VanB phenotype EFM isolates carried a *vanA* gene (TEC MIC, 4-8 mg/L). ORI was very active against VAN-susceptible EFM (MIC_{50/90} ≤ 0.008/≤0.008/mg/L), VanA (MIC_{50/90} 0.03/0.12 mg/L; MIC₁₀₀ 0.5 mg/L), and VanB (MIC_{50/90} ≤ 0.008/0.015 mg/L; MIC₁₀₀ 0.03 mg/L) subsets. Only linezolid (LZD) and ORI (MIC, ≤ 0.12 mg/L) showed > 95.0% S against EFM and VAN-R subsets. Daptomycin (DAP)-R rarely was observed (0.8%), but it was more frequently found in the last 5 years. However, 49.9% of EFM isolates showed elevated DAP MICs (2 and 4 mg/L). ORI inhibited 77.8%, and 100.0% of DAP-R and LZD-nonsusceptible EFM isolates at ≤ 0.12 mg/L, respectively.

Conclusion. VAN-R rates among EFM causing BSI in the US decreased during 2010-2019. VanA remains the most common phenotype, whereas *vanB*-carrying isolates became rarer in later years. Interestingly, half of VanB-phenotype isolates carried a *vanA* gene. ORI was very active against EFM causing BSI, including isolates R to VAN, DAP, and/or nonsusceptible to LZD.

Table 1

Organism / resistant subset (n)	Occurrence (%) per study year										Oritavancin MIC _{50/90} (mg/L)
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	
<i>E. faecium</i> (1,081)	26 ^a	13 ^b	7 ^a	7 ^a	7 ^a	9 ^a	9 ^a	9 ^a	9 ^a	9 ^a	50/17
Vancomycin MIC _{50/90} (mg/L)	0.03/0.06	0.03/0.12	0.03/0.12	0.03/0.06	0.015/0.06	0.03/0.12	0.015/0.03	0.015/0.06	0.015/0.06	0.015/0.06	0.03/0.06
Oritavancin MIC _{50/90} (mg/L)	61.8	74.6	79.9	75.7	69.9	66.7	65.2	67.8	66.7	58.7	72.3
VanA phenotype (784)	79.8	72.5	77.6	75.7	64.9	65.6	65.2	66.7	64.4	57.6	70.7
VanB phenotype (18)	2.2	2.2	1.3	0.0	4.1	1.1	0.0	1.1	2.2	1.1	1.7
Linezolid MIC _{50/90} (mg/L)	1.9	1.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<0.008/0.015
Daptomycin MIC _{50/90} (mg/L)	0.0	1.4	0.0	0.0	0.0	2.2	2.2	0.0	0.0	3.3	0.8
Daptomycin MIC _{2-4 mg/L} (540)	63.9	59.4	64.5	55.7	71.6	28.9	43.5	23.3	35.6	28.3	50.0
Linezolid NS (13)	2.2	0.7	0.0	1.4	1.4	0.0	2.2	0.0	2.2	0.0	1.2
Oritavancin MIC _{50/90} (mg/L)	63.3	91.3	90.6	90.0	91.9	83.3	77.2	85.6	81.1	77.2	87.3

^a Number of *E. faecium* isolates
^b resistant; NS, nonsusceptible

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1630. What is Treatment Time Zero Among Hospitalized Patients with Bacteremia?

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Session: P-71. Treatment of Antimicrobial Resistant Infections

Background. Common operational definitions of antibiotic exposures in infectious diseases research do not accurately reflect actual treatment, as daily changes in clinical presentation (i.e. improvement, worsening) and clinical information (i.e. causative organism, susceptibilities) lead to frequent changes in treatment, both within empiric and definitive treatment periods. Common definitions create periods of 'ignored' exposures, and we've previously shown that antibiotic treatments during 'ignored' periods vary widely. Therefore, we assessed the distribution of important time points for antibiotic treatments for *Staphylococcus aureus* bacteremia.

Methods. Our retrospective cohort study included hospital admissions in the national Veterans Affairs (VA) Healthcare System with *S. aureus* positive blood cultures from 2010 to 2018. Admissions with inappropriate initial antibiotic therapy for *S. aureus* were excluded. We implemented daily exposure mapping to identify antibiotic exposures and changes in treatment on each day of the admission until discharge, or 30 days post-admission for longer stays, and in relation to the culture final report date.

Results. We identified 21,947 admissions meeting our inclusion criteria. Antibiotic initiation most often occurred on the culture collection date (68.7%) or the day after (22.6%). Median time to the culture final report date from the culture collection date was 4 days (interquartile range [IQR] 3 to 5). Among those with changes in therapy (n=19,392, 88.4%), median time to first change in therapy was 2 days prior to the culture final report date (IQR -3 to -1). The first change in therapy occurred before the culture final report date for 76.3% of admissions and on the culture final report date for 11.9% of admissions. Further changes were common on the culture final report date (49.5%) and the day after the final report date (45.3%).

Conclusion. Changes in antibiotic therapy are common prior to finalization of culture reports. While initial culture results and provider knowledge of these initial results are not date/time-stamped, initial change within a reasonable period from culture collection appears to be more accurate in defining empiric and definitive treatment periods than commonly used operational definitions.

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1631. Mycobacterium septicum: A 6-year Clinical Experience from a Tertiary Hospital and Reference Laboratory

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Session: P-72. Tuberculosis and other Mycobacterial Infections

Background. *Mycobacterium septicum* is a rapidly growing non-tuberculous mycobacterium. It is a ubiquitous organism capable of causing infections in both healthy and immunocompromised individuals. Only a few cases have been reported to date, and standard therapeutic regimens, and optimal treatment duration have not been defined.

Methods. We conducted a retrospective chart review of all patients seen at Mayo Clinic in Rochester, MN from July 2014 to March 2020 from whom *Mycobacterium septicum* was isolated in culture by our clinical microbiology laboratory.

Results. There were 12 patients identified with *M. septicum* infection – 7 males and 5 females. The average age was 67 years, with an age range of 48 to 80 years. Seven of 12 isolates obtained were from sputum samples. Only one patient was on immunosuppressive medication. Three cases were considered clinically significant infections for which directed anti-mycobacterial therapy was instituted. In two of these three cases, co-infection with *Mycobacterium avium* complex (MAC) was seen. Underlying structural lung disease was present in the two cases of pulmonary infections. Peritoneal dialysis catheter-related peritonitis was seen in the third case. All the isolates were susceptible to amikacin, ciprofloxacin, imipenem, linezolid, moxifloxacin, and trimethoprim-sulfamethoxazole (TMP-SMX). The isolates were resistant to clarithromycin and doxycycline.

Patient Characteristics, Associated M. septicum Illness, and Therapy Provided

Case	Age (y)	Sex	Site of infection	Immunosuppression	Structural lung disease	Diagnosis	Therapy	Outcome
1	78	M	Upper lobe pneumonia	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
2	48	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
3	48	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
4	74	M	Peritoneal dialysis catheter	No	No	Non-tuberculous mycobacteria	Amikacin + rifampin + linezolid + trimethoprim-sulfamethoxazole	Death
5	78	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
6	78	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
7	80	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
8	78	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
9	78	M	Shoulder	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
10	78	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
11	80	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution
12	80	M	ECG	No	No	Non-tuberculous mycobacteria	None	Spontaneous resolution

Immunosuppression: steroids and/or other immunosuppressive agent use

Antimicrobial Susceptibility Profiles of the Mycobacterium septicum Isolates, MIC (mcg/mL) and Interpretation

Isolate	Amikacin	Clarithromycin	Ciprofloxacin	Clarithromycin	Doxycycline	Imipenem	Linezolid	Moxifloxacin	Moxifloxacin	Spiramycin	Tobramycin	TMP-SMX
1	4 (S)	32 (I)	25 (I)	16 (R)	8 (R)	2 (S)	2 (S)	25 (S)	2 (S)	1 (S)	1 (S)	25 (S)
2	2 (S)	64 (I)	25 (S)	8 (R)	16 (R)	4 (S)	4 (S)	25 (S)	2 (S)	25 (S)	1 (S)	25 (S)
3	2 (S)	32 (I)	25 (S)	16 (R)	16 (R)	2 (S)	2 (S)	25 (S)	2 (S)	25 (S)	1 (S)	25 (S)
4	8 (S)	32 (I)	25 (S)	16 (R)	16 (R)	4 (S)	4 (S)	25 (S)	2 (S)	25 (S)	1 (S)	25 (S)
5	2 (S)	128 (R)	25 (S)	16 (R)	16 (R)	2 (S)	2 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)
6	2 (S)	32 (I)	25 (S)	16 (R)	16 (R)	2 (S)	2 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)
7	2 (S)	32 (I)	8 (R)	16 (R)	16 (R)	2 (S)	2 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)
8	2 (S)	64 (I)	25 (S)	8 (R)	16 (R)	2 (S)	2 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)
9	4 (S)	32 (I)	25 (S)	8 (R)	8 (R)	4 (S)	4 (S)	25 (S)	2 (S)	25 (S)	1 (S)	25 (S)
10	2 (S)	32 (I)	25 (S)	8 (R)	16 (R)	4 (S)	4 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)
11	4 (S)	32 (I)	25 (S)	8 (R)	16 (R)	4 (S)	4 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)
12	2 (S)	32 (I)	25 (S)	16 (R)	8 (R)	2 (S)	4 (S)	25 (S)	2 (S)	25 (S)	2 (S)	25 (S)

% susceptibility	Amikacin	Clarithromycin	Ciprofloxacin	Clarithromycin	Doxycycline	Imipenem	Linezolid	Moxifloxacin	Moxifloxacin	Spiramycin	Tobramycin	TMP-SMX
Mycobacterium septicum (n=12)	100	0	100	0	0	100	100	0	100	N	100	100

S: susceptible, R: resistant, NI: no interpretation, ND: not done, MIC: minimum inhibitory concentration

Patient Demographics and Specimen Source of Mycobacterium septicum Isolates

Characteristic	Number (%)
Patient demographics	
Mean age (range), years	66.9 (48-80)
Male	7 (58.3%)
Female	5 (41.7%)
Specimen source	
Sputum	7 (58.3)
Tissue	
Lymph node	1 (8.3)
Leg	1 (8.3)
Shoulder	1 (8.3)
Calf	1 (8.3)
Peritoneal fluid	1 (8.3)

Conclusion. *M. septicum* is an unusual cause of non-tuberculous mycobacterial infection. The presence of a foreign body may increase the risk of infection. Individuals with underlying structural lung disease are also likely to be at increased risk of developing pulmonary infection. Generalized treatment recommendations are limited by the lack of prospective controlled trials; hence, optimal antibiotic regimen and treatment duration have not been firmly established. Susceptibility testing should be performed to guide treatment selection, but the use of combination therapy with potentially empiric agents like amikacin, ciprofloxacin, imipenem, linezolid, moxifloxacin, and TMP-SMX as demonstrated in this small study, can be considered. A high rate of macrolide resistance was noted in our study.

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1632. Comparing the epidemiology and clinical characteristics of childhood tuberculosis through active and passive case finding

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Session: P-72. Tuberculosis and other Mycobacterial Infections

Background. Childhood tuberculosis can be found via passive case finding (PCF), diagnosing a symptomatic child, and active case finding (ACF), discovering a child through contact tracing. Most high prevalence areas perform PCF, but as ACF is introduced, the clinical and radiologic findings may differ. We compare clinical, radiographic, microbiologic and epidemiological characteristics of children diagnosed through PCF and ACF.

Methods. A retrospective cohort study of all patients diagnosed with TB from 01/01/2012-12/31/2019 at Texas Children's Hospital. ACF is TB in a child who had not previously sought care before identified via contact tracing, immigration screening, or screening for incarceration. Severity of disease was based on location of illness, imaging and bacteriology/histopathology. Associations between PCF/ACF and demographics, disease severity, and microbiology were analyzed.

Results. Of 178 patients, 80 (45%) were diagnosed via ACF. ACF patients were more likely to be US-born (OR: 2.29, [95% Confidence interval (CI): 1.12-4.67]) and younger (mean 6.18 vs 8.84 years, p= 0.016). Only 2.5% of ACF patients had extrapulmonary disease, compared to 45% of the PCF group (p< 0.0001). All 14 severe extrathoracic cases were in the PCF group (10 central nervous system disease, 3 ocular disease, 1 spondylitis). Fewer patients in the ACF group had severe intrathoracic findings (11% vs 39%, p< 0.001): miliary disease (0% vs 10%, p=0.006), cavity (1% vs 9%, p=0.04), and multilobar involvement (7.5% vs 22.4%, p=0.006). ACF patients had more hilar/mediastinal adenopathy (OR: 2.51, [CI: 1.34-3.72], p=0.004). ACF patients were less often cultured (38% vs 89%, p< 0.0001) and had less microbiological confirmation by cultures or PCR (21% vs 52%, p< 0.0001).

Conclusion. Patients in the ACF group were younger, had less severe clinical manifestations, and had almost no extrathoracic disease. Clinicians need to be aware that the common clinical and radiographic presentations in children differ between PCF and ACF.

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