antibiotics were administered in the office for pre-procedure prophylaxis. To enhance antibiotic prescribing in these specialized clinics, interventions should focus on non-visit prescriptions and provide education for APPs, alongside adjustments to default durations in electronic orders. Further evaluation is essential to assess the appropriateness of single doses for pre-procedure prophylaxis.

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Poster Presentation - Top Poster Abstract **Subject Category:** Antibiotic Stewardship

Evaluation of Predictors Associated with Slow Clinical Response with Extension of Outpatient Parenteral Antimicrobial Therapy

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Background: Outpatient parenteral antimicrobial therapy (OPAT) provides a safe and effective alternative to prolonged hospitalization for patients with infectious diseases requiring elongated antimicrobial therapy. One study found that 35.6% of OPAT episodes met the composite definition for treatment failure, with unplanned extension of OPAT as the most common reason for treatment failure. Our study sought to identify factors predicting higher likelihood of extension of OPAT due to slow clinical response to treatment and determine how therapy extension relates to complications. Method: This retrospective cohort study included all patients aged ≥18 years discharged on OPAT between April 2022 and October 2022. Demographic, treatment, outcome, and complications data were extracted through chart review. The primary outcome was the proportion and predictors of OPAT extension due to slow clinical response to treatment. The secondary outcomes were OPAT complication rate, 30-day ED visit and 30-day readmission rates related to OPAT complications. We used univariable and multivariable logistic regression models for the primary outcome of slow clinical response requiring OPAT extension. Variables with p < 0.1 in the univariable analyses were included in the multivariable model. Result: 231 patients received OPAT during the six-month study. Among them, 40 (17.3%) patients required an extension of therapy. In univariable analysis, patients who had slow clinical response requiring extension of OPAT were more likely to have intraabdominal infection (odds ratio [OR], 2.435; 95% confidence interval[CI], 1.053-5.628), receipt of metronidazole (OR, 3.729; 95% CI, 1.413-9.842), and were more likely to be followed up through office visit (OR, 5.033; 95%CI, 1.164-21.759) or combination of office visit and telemedicine (OR, 2.223; 95%CI 1.041-4.747). Other variable comparisons are detailed in Figure 1. In the multivariable regression analysis, the independent predictor associated with extended of OPAT was follow-up via office visit (adjusted OR, 4.630; 95% CI, 1.024-20.694). Rates of complications related to intravenous access and antibiotic were similar between patients with and without extension; 15% vs. 11% (p=0.430) and 7.5% vs. 7.3% (p=1.000), respectively. There were no significant differences in 30-day ED visits and readmission rates between the 2 groups: 7.5% vs. 5.8%(p=0.715) and 12.5% vs. 7.3% (p=0.338). Conclusion: Our study highlights patient's office visit follow-up is associated with the OPAT extension due to slow clinical response. However, extended therapy did not result in a significant increase in complications or hospital readmissions. These findings suggest the importance of careful patient selection and monitoring for OPAT, potentially guiding more efficient and targeted healthcare practices.

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Characteristics	Slow Clinical Response with OPAT extension		factors of Slow Clinical Response Requi Univariable regression		Multivariable regression	
	Yes	No n=191	OR (95% CI)	p value	aOR (95% CI)	p value
Age in years, median (IQR)	n= 40 63 (52, 78)	62 (52, 73)	1.005 (0.982 - 1.028)	0.679		
Gender				0.969		-
Female	15 (37.5)	71 (37.2)	Reference	2323		
Male	25 (62.5)	120 (62.8)	0.986 (0.488 - 1.994)			
Race				0.734		
White Others	30 (75.0) 10 (25.0)	148 (77.5) 43 (22.5)	Reference 1.147 (0.550 – 2.533)			
Others Ethnicity	10 (22.0)	45 (22.5)	1.147 (0.550 - 2.555)			-
Non-Hispanic	38 (95.0)	173 (90.6)	Reference			
Hispanic	2 (5.0)	18 (9.4)	0.506 (0.113 ~ 2.273)	0.374		١.
Charlson						
comorbidity index		33-353033	25.335.0			
• 0	5 (12.5)	21 (11.0)	Reference	10000		-
• 1-2	8 (20.0)	49 (25.7)	0.868 (0.201-2.343)	0.547	-	-
• 3-4	8 (20.0)	55 (28.8)	0.611 (0.179 - 2.080)	0.431	-	-
• >5 SUD	19 (47.5) 2 (5.0)	66 (34.6) 16 (8.4)	1.203 (0.402 - 3.635) 0.576 (0.127 - 2.609)	0.735		
IVDU	0	9 (4.7)	0.770 (0.127 - 2.007)	0.999		-
Insurance	- 0	7 (4.7)	-	9.399	-	·
Commercial	13 (32.5)	66 (34.6)	Reference			
Medicare	22 (55.0)	93 (48.7)	1.201 (0.565 = 2.555)	0.634	-	
Medicaid	4 (10.0)	28 (14.7)	0.725 (0.217 - 2.419)	0.601	-	
Others	1(2.5)	4(2.1)	1.269 (0.131-12.292)	0.837		
Primary language						
English Non-English	36 (90.0) 4 (10.0)	1175 (91.6) 16 (8.4)	Reference	0.740		
Penicillin allergy	5 (12.5)	34 (17.8)	1.215 (0.384 - 3.849) 0.660 (0.241 - 1.807)	0.418		·
Discharge location	2 (44-2)	34 (11.4)	0.000 (0.241 - 1.001)	0.450		_
• Home	29 (72.5)	123 (64.4)	Reference			
• SNF	29 (72.5) 11 (27.5)	68 (35.6)	0.686 (0.323 = 1.459)	0.328	_	-
Indications	22.10.1102	10224-006			6/3	
• B&J	14 (35.0)	76 (39.8)	0.815 (0.400 - 1.660)	0.573		
Primary PSI SSTI	9 (22.5) 8 (22.0)	63 (33.0) 29 (15.2)	0.590 (0.265 - 1.314) 1.397 (0.585 - 3.332)	0.197		
• 3511 • IAI	10 (25.0)	29 (13.2)	2.435 (1.053 - 5.628)	0.037	2.181 (0.865 -	0.098
• 1/11	10 (23.0)	25 (12.0)	2.437 (2.457 - 3.424)	0.05	5 500)	0.094
IE CIED infection	5 (12.5)	17 (8.9)	1.462 (0.506 - 4.225)	0.483		
Others	5 (12.5)	24 (12.6)	0.994 (0.355 - 2.785)	0.991		-
Access						
Central Peripheral	30 (75.0) 10 (25.0)	141 (73.8) 50 (26.2)	Reference 0.940 (0.429 - 2.061)	0.877	0.1	
Antibiotic class	10 (23.0)	20 (20.2)	0.540 (0.425 - 2.001)	0.211		-
Penicillin	8 (20.0)	40 (20.9)	0.944 (0.404 - 2.207) 1.288 (0.650 - 2.554)	0.894	2	
 Cephalosporin 	22 (55.0)	93 (48.7)	1.288 (0.650 - 2.554)	0.469		
 Carbapenems 	7 (17.5)	24 (12.6)	1.475 (0.588 - 3.707)	0.407	-	
 Glycopeptodes 	8 (20.0)	43 (22.5)	0.860 (0.369 = 2.005)	0.728	2 000 00 000	
Metronidazole	8 (20.0)	12 (6.3)	3.729 (1.413 - 9.842)	0:008	2.091 (0.605 = 7.230)	0.244
Others	4 (10.0)	28 (14.7)	0.647 (0.214 - 1.959)	0.441		
Number of						
Antibiotics	21.002.0	121 /62 5	2.4			
•1	21 (52.5) 17 (42.5)	131 (68.8) 56 (29.3)	Reference 1.894 (0.929 – 3.859)	0.079	1.490 (0.651 -	0.345
**	17 (42.3)	20 (29.3)	1.694 (0.929 - 3.839)	0.079	3.411)	9,343
• 3	2 (5.0)	4(2.1)	3.119 (0.537 - 18.107)	0.205	1.390 (0.170 -	0.758
		10.400		1000000	11.350)	
Frequency	22 (66 %)	103 (53 0)	2.4			
• <=2 /day • >2 /day	22 (55.0) 18 (45.0)	103 (53.9) 88 (46.1)	Reference 0.958 (0.483 = 1.899)	0.901		
Office visit	10 (40.0)	30 (40.1)	-3-0 (v.465 = 1.679)	0.501		_
• No (n=42)	2 (4.8)	40 (95.2)	Reference	25.0000		
• Yes (n=189)	38 (20.1)	151 (79.9)	5.033 (1.164 - 21.759)	0:031	4.630 (1.024 -	0.047*
Telehealth visit					20.694)	
• No (n=161)	25 (15.5)	136 (84.5)	Reference			
• Yes (n=70)	15 (21.4)	55 (78.6)	1.484 (0.728 - 3.026)	0.278		
Both office and				-		
telehealth visit	200000000		100000000000000000000000000000000000000			
• No (n=184)	27 (14.7)	157 (85.3)	Reference			
• Yes (n=47)	13 (27.7)	34 (72.3)	2.223 (1.041 - 4.747)	0:039	1.462 (0.645 -	0.363
Time from hospital	10 (7, 15)	9 (7, 12)	1.023 (0.984 - 1.063)	0.251	3,312)	
discharge to first		- (-,)				1
OPAT follow up,						1
days, median (IQR)						_
Missed appointment	22,022.00	155 (51.0)	2.4			
•0	32 (80.0) 6 (15.0)	155 (81.2) 21 (11.0)	Reference 1.384 (0.517 – 3.702)	0.517	21	
	2 (5.0)	15 (7.9)	0.646 (0.141 - 2.964)	0.574 0.285		
•>1						

Presentation Type:

Poster Presentation - Top Poster Abstract **Subject Category:** Antibiotic Stewardship

Implementing an Antimicrobial Stewardship Lecture Series for Family Medicine Residency Programs in South Carolina

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Background: Family medicine physicians are one of the leading prescribers of antimicrobials in both the inpatient and ambulatory setting, however appropriate education on antimicrobial stewardship (AS) is lacking. The Antimicrobial Stewardship Collaborative of South Carolina (ASC-SC)