REAL WORLD USE OF DALBAVANCIN AND ORITAVANCIN FOR OPTIMIZED OUTPATIENT ANTIMICROBIAL THERAPY IN PATIENTS INAPPROPRIATE FOR STANDARD THERAPY

UnityPoint Health Hospitals, Des Moines, IA

Total of 36 patients received LaLGP

• Most common pathogen: S. aureus

Included in sub-group analysis.

SOB with CHF & endocarditis

Non-ABSSSI Indications for LaLGP

Cardiac Device related Endocarditis

• 4 patients lost to follow-up

30% MRSA

• 26% MSSA

• Back pain

Bacteremia

Endocarditis

Osteomyelitis

Septic arthritis

Tenosynovitis

Prosthetic Joint Infection

Bursitis

Spinal

• Pt #1: somnolence

RESULTS

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• Median duration of therapy prior to LaLGP was 7 days

Adverse Drug Event (ADE) occurred in 3 patients in Non-ABSSSI

• Pt #2: chest pain, pruritis (improved with slowed infusion)

• Pt #3: pruritic rash & diarrhea within 24 hours of 2nd dose

N (%) 5 (22)

1 (4)

1 (4)

2 (9)

2 (9)

2 (9)

6 (26)

3 (13)

1 (4)

Table 1

• 2 patients seen in ED within 30 days in Non-ABSSSI:

BACKGROUND

- Long acting lipoglycopeptide antibiotics (LaLGP) are currently
- approved for acute bacterial skin and soft tissue infections (ABSSSI) with broad-spectrum coverage against most gram-
- positive cocci. Multiple non-randomized studies have
- shown promise in treatment of bacteremia, endocarditis,
- pneumonia, and osteomyelitis. [1, 2]
- The aim of this review was to evaluate treatment failure by
- evaluating readmission or Emergency department (ED) visits for
- same indication. Length of therapy and adverse drug events
- (ADE) were also described.

METHODS

- Retrospective review of adults who received LaLGP from July
- 2016 to February 2022 within an integrated health system
- which includes 3 hospitals and 2 outpatient infusion centers.

CONCLUSION

- LaLGP were utilized for various indications other than ABSSSI
- with most patients having received 1-2 doses after initial lead-in
- therapy. There was an acceptable adverse drug event rate of
- 16% and readmission rate of 0% with only 2% returning to the
- ED.
- LaLGP are an acceptable alternative when daily outpatient
- antimicrobial therapy is not feasible.
- This appears to be a safe and effective alternative for non-
- ABSSSI indications

REFERENCES

1. Thomas G, Henao-Martínez AF, Franco-Paredes C, Chastain DB. Treatment of osteoarticular, cardiovascular, intravascular-catheter-related and other complicated infections with dalbavancin and oritavancin: A systematic review. Int J Antimicrob Agents. 2020;56(3):106069. doi:10.1016/j.ijantimicag.2020.106069

Justification for Use over Standard Therapy	N (%)	
Substance Abuse	16 (48)	
Contraindications to venous access	5 (15)	
Social Barriers (transportation/financial)	3 (9)	
Allergy	1 (3)	
"Best Alternative"	5 (15)	
Patient preference	2 (6)	
Not specified	3 (9)	

Table 2

Table 3	ABSSSI N (%)	Non-ABSSSI N (%)
Agent Selection		
Dalbavancin	6 (50)	2 (9)
Oritivancin	6 (50)	21 (91)
Number of doses		
1	9 (75)	8 (35)
2	3 (25)	5 (22)
3	0 (0)	2 (9)
4	0 (0)	2 (9)
5	0 (0)	4 (17)
6	0 (0)	1 (4)
8	0 (0)	1 (4)
Adverse Drug Event		
Yes	0 (0)	3 (16)
No	12 (100)	15 (79)
Not Specified	0 (0)	1 (5)
Readmission for same indication (30 days)		
Yes	2 (17)	0 (0)
No	10 (83)	19 (100)
ED visit for same indication (30 days)		
Yes	0 (0)	2 (11)
No	12 (100)	17 (90)

2. Gatti M, Andreoni M, Pea F, Viale P. Real-World Use of Dalbavancin in the Era of Empowerment of Outpatient Antimicrobial Treatment: A Careful Appraisal Beyond Approved Indications Focusing on Unmet Clinical Needs. Drug Des Devel Ther. 2021;15:3349-3378. Published 2021 Aug 3. doi:10.2147/DDDT.S313756

