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11-2021

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Recommended Citation

Oermann, Christopher M.; Duehlmeyer, Stephanie; Meier, Ellen; and Elson, Claire, "Vancomycin AUC monitoring in individuals with cystic fibrosis at a pediatric institution" (2021). *Posters*. 243. https://scholarlyexchange.childrensmercy.org/posters/243

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Vancomycin AUC Monitoring in Individuals with Cystic Fibrosis Stephanie Duehlmeyer, PharmD, BCPPS; Ellen Meier, APRN; Christopher M Oermann, MD; E. Claire Elson, PharmD, BCPPS



Children's Mercy Kansas City, Kansas City, Missouri

Results

	Trough Monitoring 01.01.2019 to 12.31.2019 25 individuals received 42 courses of IV VANC	AUC Monitoring 05.01.2020 to 07.31.2021 12 individuals received 20 courses of IV VANC	
n (%)	14 (56)	7 (58)	
(years)	14 (4-20)	16 (8-20)	
nent Duration (days)	10.46 <u>+</u> 4.88	9.87 <u>+</u> 2.93	p = 0.608 95% Cl = -1.76 to 2.98
V VANC Exposure (mg/kg/day)	71.34 <u>+</u> 10.63	75.68 <u>+</u> 11.91	p = 0.153 95% Cl = -10.34 to 1.66
reatment Courses Achieving Target (n, %)	18 (43)	19 (95)	p≤0.0001
o Therapeutic Concentration	86.33 <u>+</u> 75.80	28.37 <u>+</u> 25.98	p = 0.0037 95% Cl = 21.16 to 100.53
er of Phlebotomies	4 <u>+</u> 2	4 <u>+</u> 2	p = 0.86 95% Cl = -0.96 to 0.79

Conclusions

• Changing to AUC monitoring for IV VANC among pwCF was not associated with a significant change in daily IV VANC exposure, duration of treatment, or number of

• More treatment courses achieved therapeutic targets with AUC monitoring compared to trough monitoring • AUC monitoring resulted in a significant decrease in mean time to therapeutic concentration by 57.96 hours

Poster Number: 254

