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Christopher M. Oermann Children's Mercy Hospital

Stephanie Duehlmeyer Children's Mercy Hospital

Ellen Meier Children's Mercy Hospital

Claire Elson Children's Mercy Hospital

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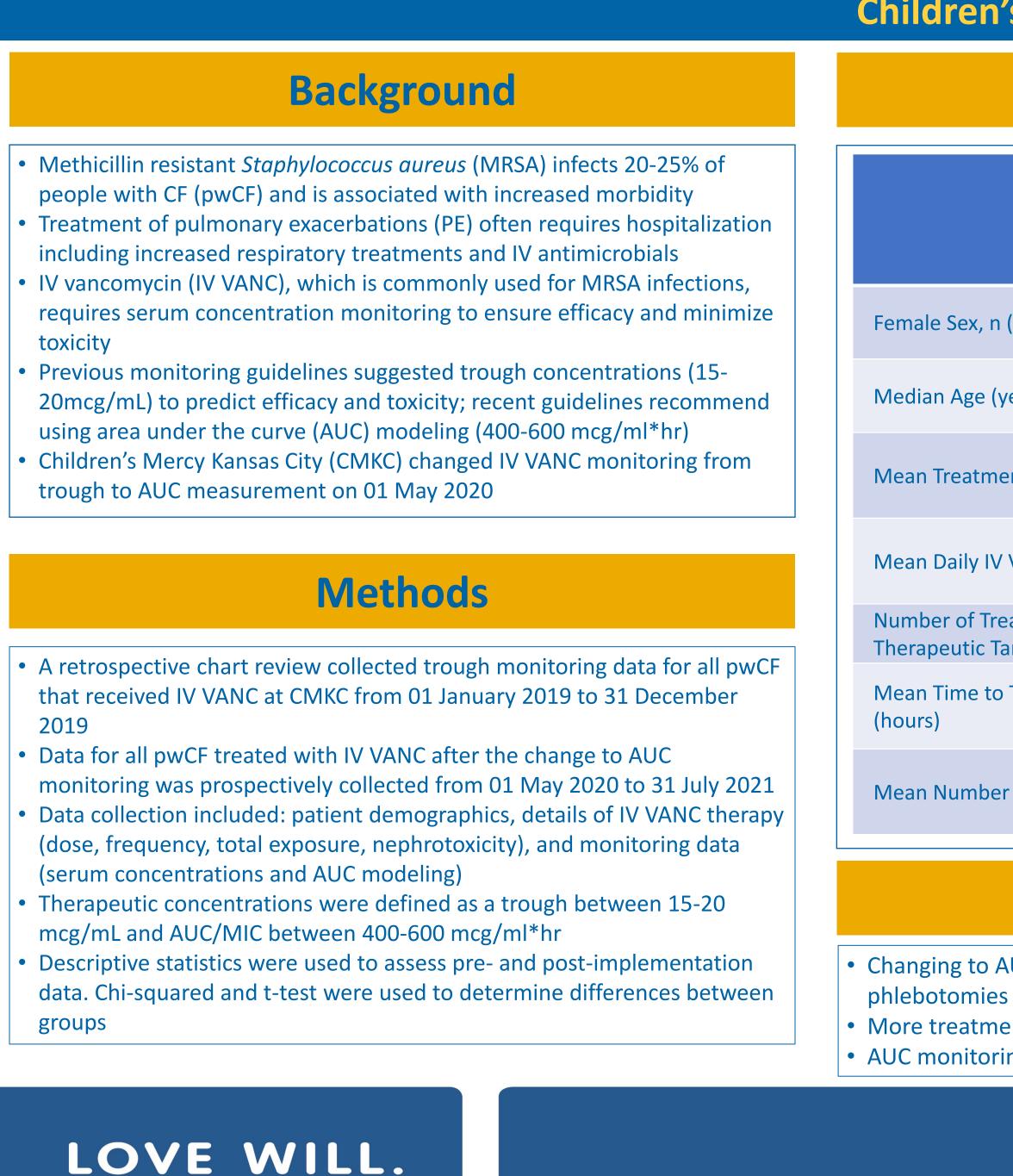
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# Vancomycin AUC Monitoring in Individuals with Cystic Fibrosis Stephanie Duehlmeyer, PharmD, BCPPS; Ellen Meier, APRN; Christopher M Oermann, MD; E. Claire Elson, PharmD, BCPPS



#### 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

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