

Wilkes University Nesbitt School of Pharmacy

Impact of Pharmacist Monitoring of Serum Triglycerides for Critically III Patients Receiving Propofol Katelin Ivey, PharmD Candidate 2021, Scott Bolesta, PharmD, BCPS, FCCM, FCCP¹ ¹Department of Pharmacy Practice, Wilkes University Nesbitt School of Pharmacy

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Purpose



Post-Pre-Protocol Protocol Characteristic Group p Value Group (n = 209) (n = 203) Mean ± (Standard Deviation) 64.2 (18) Age (years) 64.1 (18) 0.941 Height (cm) 169.3 (16) 169.3 (13) 0.965 Weight (kg) 83.5 (25) 84.4 (28) 0.715 Length of ICU Stay (days) 11.4 (10) 11.0 (11) 0.713 Hours on Propofol 96.6 (105) 92.7 (110) 0.710 Number (%) of Patients Male 57.1% (116) 0.690 59.3% (124) 0.699 Race (white) 93.8% (196) 95.1% (193) Mechanical Ventilation 92.8% (194) 91.6% (186) 0.715 **Outpatient Statin Use** 41.6% (87) 46.8% (95) 0.321

Results

Number of Pharmacist Ordered Triglyceride Concentrations



■ Pharmacist ■ Other



Commonwealth

Health



Pre-Protocol Group (n = 209) Post-Protocol Group (n = 203)



Baseline was Obtained if Propofol was Continued for Greater than 24 Hours



∎Yes ∎No



Conclusion

The implementation of a protocol allowing pharmacists to order serum triglyceride levels in ICU patients receiving propofol for sedation significantly improved appropriate monitoring of serum triglycerides. Additional studies should be conducted to determine the impact of such a protocol on important patient outcomes such as the incidence of pancreatitis, duration of mechanical ventilation and length of stay.