Lehigh Valley Health Network LVHN Scholarly Works

Research Scholars

COVID-19 Death Rate Comparison within Hospitals in the Tri-State Area

Emily Vaughan

Danielle Weaver

Kenneth Miller MEd, RRT-NPS

Follow this and additional works at: https://scholarlyworks.lvhn.org/research-scholars

Part of the Medicine and Health Sciences Commons

This Poster is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.

COVID-19 Death Rate Comparison within Hospitals in the Tri-State Area

Introduction

- Vizient is a **clinical database** used amongst the nations hospitals in order to perform benchmarking to improve patient outcomes
- The report builder within the clinical database allows us to generate graphs that shows how Lehigh Valley Health Network's (LVHN) outcomes compare to other hospitals across the nation
- Vizient stratifies hospitals based off size and creates certain cohorts to accurately compare hospitals
- The **objective** of this data review is to determine how LVHN compares to other hospitals in COVID-19 ventilator outcomes



Figure 1. Ramp Graph of LVHN Cedar Crest Campus

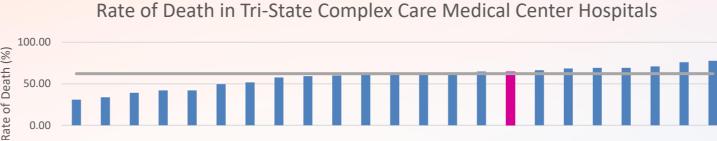


Figure 2. Ramp Graph of LVHN Pocono Campus

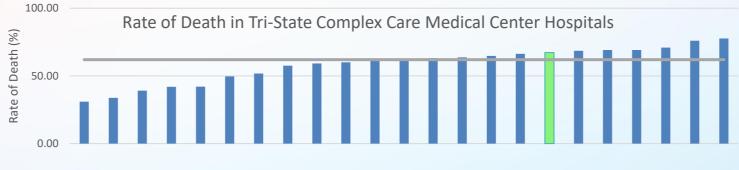
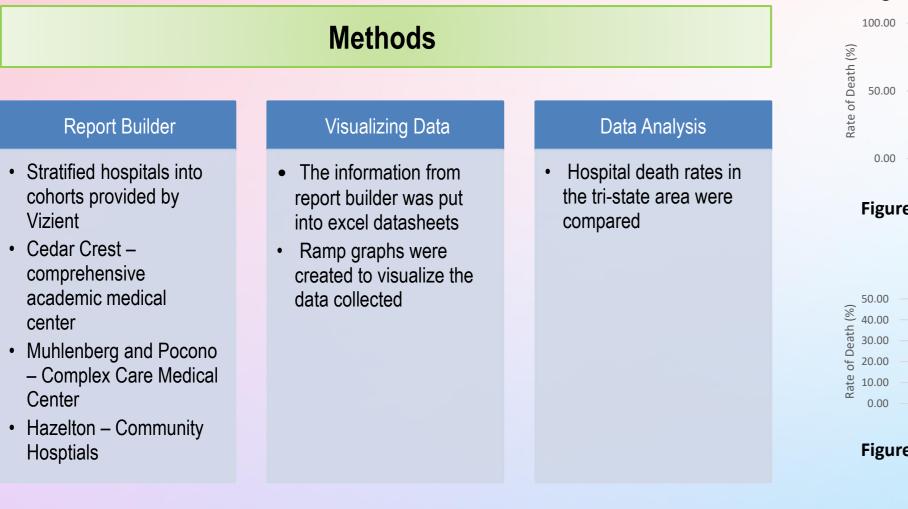


Figure 3. Ramp Graph of LVHN Muhlenberg Campus

		R	ate of De	eath ir
Kate of Death (%)	50.00			
	40.00			
	30.00			
	20.00			
	10.00			
Ľ	0.00			

Figure 4. Ramp Graph of LVHN Hazelton Campus

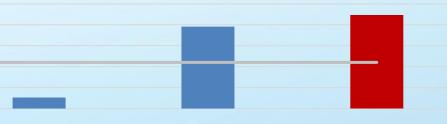


Emily Vaughan, Danielle Weaver, Kenneth Miller MEd, MSRT, ACCS, NPS, AE-C, FAARC

Lehigh Valley Health Network, Allentown, Pennsylvania

Results

n Tri-State Area Community Hospitals



Conclusions

- Death Rate of Mechanically Ventilated Patients
 - LVHN hospitals consistently have death rates higher than the median death rate
- Comprehensive Academic Medical Centers
 - LVHN Cedar Crest Campus has higher death rate than hospitals such as: University of Pennsylvania, Johns Hopkins, and New York University
- Complex Care Medical Center
 - LVHN Pocono (65.0%) has a lower death rate than LVHN Muhlenberg (67.2%)
- Community Hospitals
 - LVHN Hazelton has the highest death right out of the four community hospitals

Future Direction

 Collaborate with other hospitals of similar size to improve patient care at LVHN

Acknowledgements

Dr. Matthew McCambridge and Michele Hartzel for the help and knowledge they provided through the Vizient data collection process



