Lehigh Valley Health Network LVHN Scholarly Works

Patient Care Services / Nursing

Data Dashboard: Making the Electronic Medical Record Work for You

Erin M. Conahan RN, CNRN Lehigh Valley Health Network, Erin M.Conahan@lvhn.org

Claranne Mathiesen RN, MSN, CNRN Lehigh Valley Health Network, Claranne.Mathiesen@lvhn.org

Follow this and additional works at: https://scholarlyworks.lvhn.org/patient-care-services-nursing

Published In/Presented At

Conahan, E. Mathiesen, C. (2019, February 5-8). Data Dashboard: Making the Electronic Medical Record Work for You. Poster Presented at: International Stroke Conference American Stroke Association, Honolulu, Hawaii.

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.

Data Dashboard: Making the Electronic Medical Record Work for You Erin Conahan, MSN, RN, ACNS-BC, CNRN, SCRN, PHRN and Claranne Mathiesen, MSN, RN, CNRN, SCRN, FAHA Lehigh Valley Health Network, Allentown, Pa.

BACKGROUND

Stroke care is becoming increasingly complex in the 21st century. In order to assure optimal patient outcomes, our health network developed a stroke care pathway based on evidence-based practices and expert consensus. Overall goals for the project include increased adherence to practice standards and defined process metrics. This project is part of a larger institutional initiative for specific disease states. An integral aspect of the project was the development and implementation of a dashboard allowing for a global view of the stroke population as well as the ability to drill down to the patient or provider level.

PURPOSE

The purpose of the dashboard is to use data to evaluate trends and develop data driven interventions. This tool is available to key stakeholders including administration, quality, program leadership and care providers.

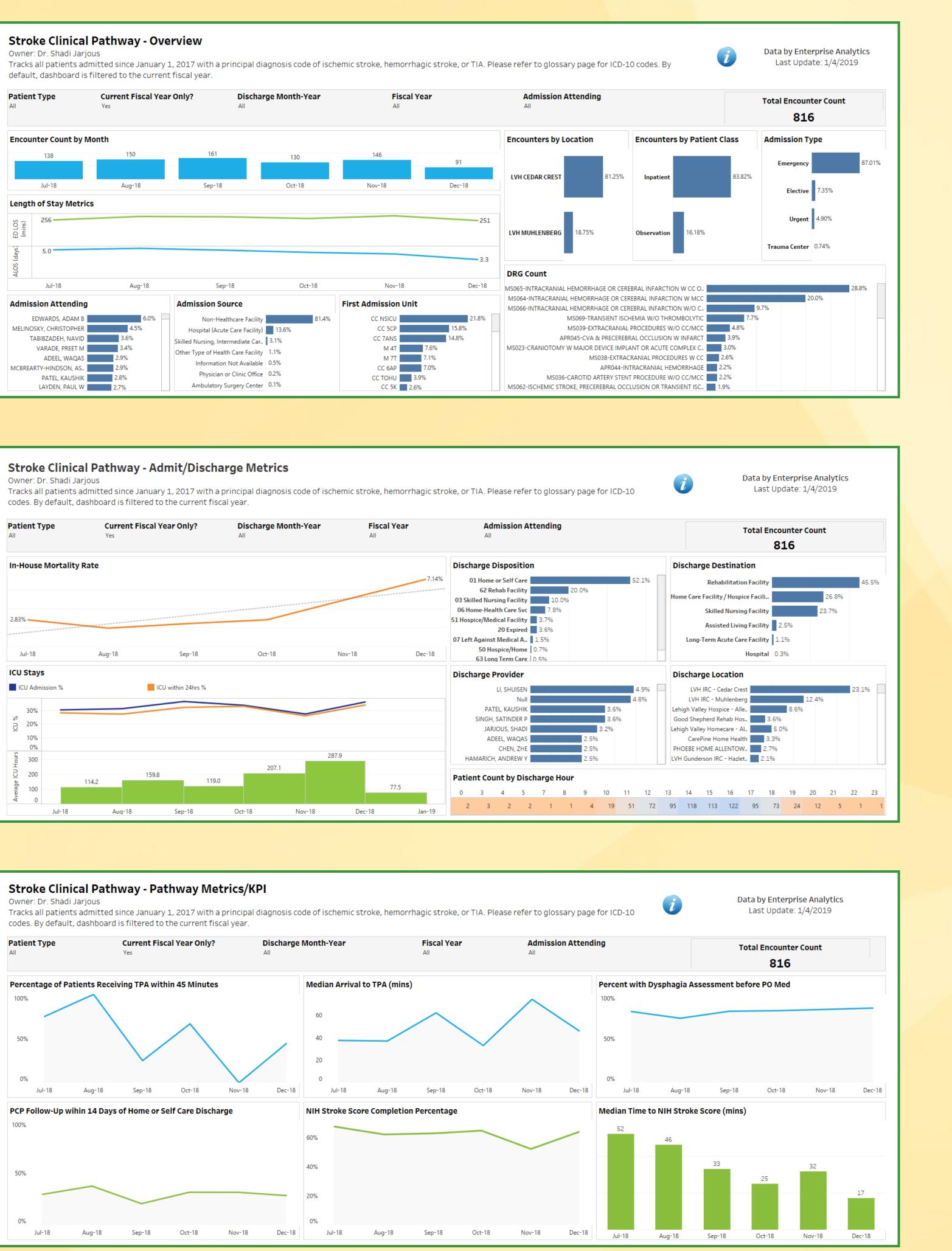
© 2019 Lehigh Valley Health Network

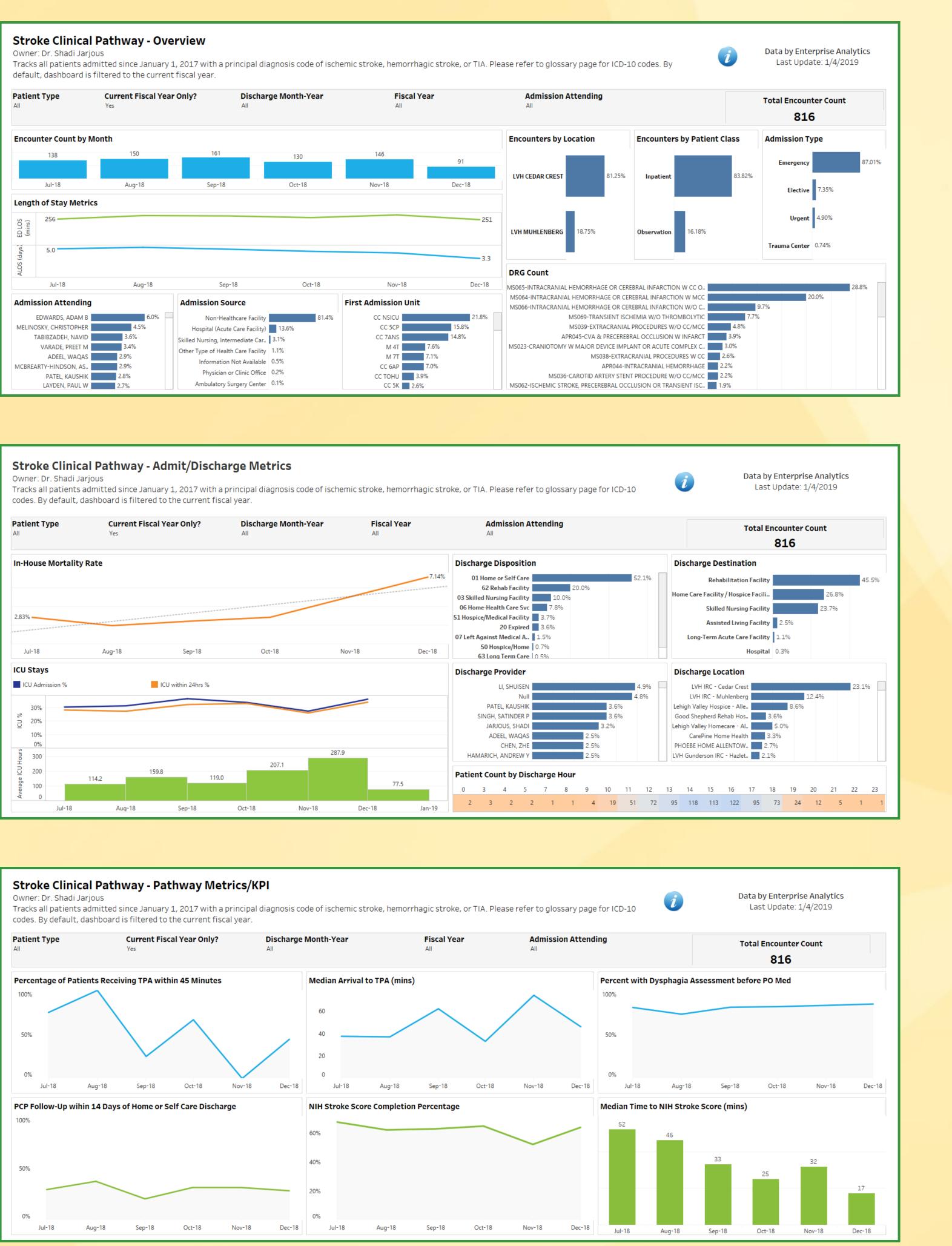
METHODS

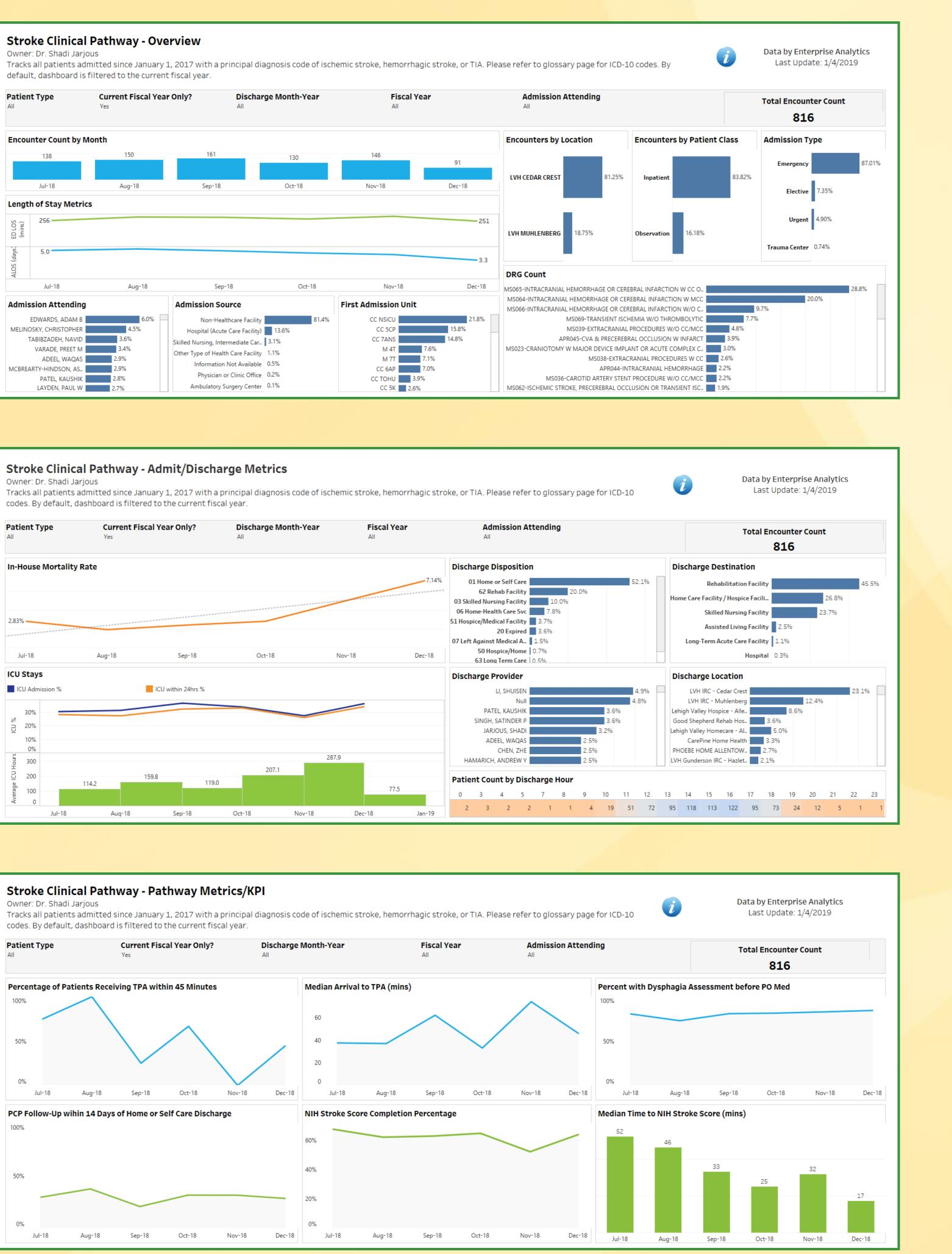
The pathway initiative is a collaboration between quality, clinical, and data analytic teams. It used a multidisciplinary approach and included input from services throughout the care continuum. Clinical pathways for stroke alert, reperfusion, neurointerventional care, and nursing care were developed and recently launched. The dashboard autopopulates from discreet fields within the electronic medical record. It is an informational tool that allows for data transparency through the use of interactive charts and graphs which provides temporal trending.

RESULTS

Utilization of this approach supports system level data trending and analysis. Preliminary results demonstrate improved provider engagement, reduction in variability in several care processes, and data transparency through accessible real-time reporting.







Disease specific dashboards using automatic data feeds from the electronic medical record allow for evaluation of program efficiencies, population trends, and provider level data without additional manual abstraction or analysis. Evaluating data in real time allows for identification of variations in practice, real-time interventions targeting identified variances, as well as determining the effectiveness of interventions on quality and cost of care.

Ghazisaeidi, M., Safdari, R., Torabi, M., Mirzaee, M., Farzi, J., & Goodini, A. (2015). Development of Performance Dashboards in Healthcare Sector: Key Practical Issues. Acta Informatica Medica, 23(5): 317-321.

Hill Golden, S., Hager, D., Gould, L.J., Mathioudakis, N., & Pronovost, P.J. (2017). A Gap Analysis Needs Assessment Tool to Drive a Care Delivery and Research Agenda for Integration of Care and sharing of Best Practices Across a Health System. The Joint Commission Journal on Quality and Patient Safety, 43: 18-28.

Katzan, I.L., Fan, Y., Speck, M., Morton, J., Fromwiller, L., & Modic, M., (2015). Electronic Stroke CarePath: Integrated Approach to Stroke Care. Circulation Cardiovascular Quality and Outcomes, 8:S179-S189.

Stadler, G.G., Donlon, K., Siewert, J.D., Franken, T., & Lewis, N.E. (2016). Improving the Efficiency and Ease of Healthcare Analysis Through Use of Data Visualtization Dashboards. Population Health, 4(2): 129-136.

CONCLUSIONS

REFERENCES

ACKNOWLEDGEMENTS

We would like to acknowledge the contributions of the entire Stroke Care Pathway development and oversight committee.

Lehigh Valley Health Network

