



Exploring Population Health with a COPD Dashboard

Joyce Maygers, DNP, RN

Etter Hoang, MHA

Problem Statement: Chronic obstructive pulmonary disease (COPD) causes significant morbidity and mortality throughout the US and the world, and is a leading cause of hospital admissions and emergency room visits. **Methods:** Our organization used a dashboard application to critically analyze the COPD patient population, comparing key metrics both within our acute hospital and between hospitals in our health system. This dashboard application allows us to view patient level data, aggregate data among groups of patients and providers, and compare outcomes in new ways. The application provides a graphical user interface that is user friendly and requires little training for data analysis. In addition, we are able to merge multiple data sources while maintaining continuity of patient data. During the implementation of the COPD dashboard, we changed to a new EMR system; however we were able to maintain integrity of patient records on many key metrics. A multidisciplinary COPD Clinical Council was convened in 2014 to discuss the care of the COPD patient across the continuum. The COPD Dashboard was constructed using Qlikview©, using the 2015 GOLD guidelines and input from providers, nurses, care managers, respiratory therapists, etc. Over the course of the following 18 months and despite a transition to a new EMR platform, the dashboard was used to analyze and trend several quality and clinical metrics such as readmissions, medication therapy, and emergency department workflows. This presentation will describe the evolution of the clinical council, development of the dashboard, and the key metrics being reviewed in the COPD population.