Development and Implementation of Clinical Dashboards for Clinical Outcomes¬ Measures Reporting Within Health System Specialty Pharmacy Services

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BACKGROUND

- The need to create standardized collection methods and a reporting framework for defined clinical outcomes measures (COMs) is an identified requirement and developing area in health system specialty pharmacy services (HSSP).

- As we begin to understand which key COMs demonstrate positive patient impact across various disease states and the value these COMs hold to key stakeholders, it becomes imperative that there is a method to standardize the reporting of this data in a consistent and actionable way.

- To accomplish this, Trellis Rx implemented technology-enabled clinical dashboards that reflect key identified COMs defined in disease-specific protocols leveraged by pharmacists and patient liaisons working onsite at our partner health systems.
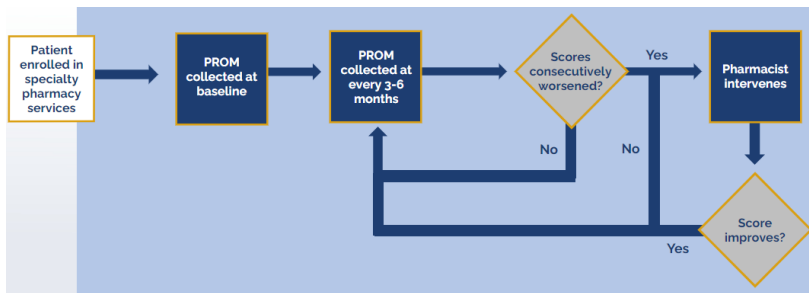
OBJECTIVE

Illustrate how incorporating technology-enabled clinical dashboards into an HSSP workflow optimizes patient care and outcomes measures reportability.

METHODS

- Multi-center, descriptive study evaluating disease-specific, technology-enabled clinical dashboards.

- Disease state-specific clinical protocols defining key COMs were developed by clinical subcommittees based on current clinical guidelines, recent research, and specialty pharmacy organization recommendations.

- Once defined, the disease-specific protocols were implemented in Trellis Rx's specialty pharmacy technology platform, Arbor® and adopted by pharmacists and patient liaisons across Trellis Rx's partner health systems.

- Arbor's advanced algorithms trigger automated alerts and interventions enabling consistent and streamlined collection of COMs and other relevant data across Trellis Rx's partner health systems.

- Finally, real-time, disease-specific dashboards were created via Arbor to monitor compliance with the disease-specific protocols, ensure appropriate collection of COMs, leverage COM data to drive patient care, and enable consistent reporting on COMs to stakeholders.
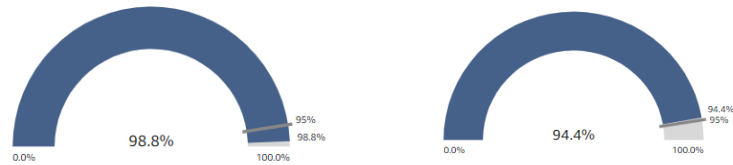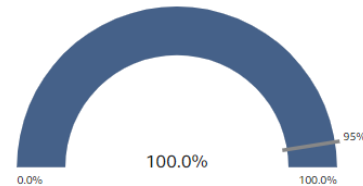
Rheumatology COM Protocol Framework

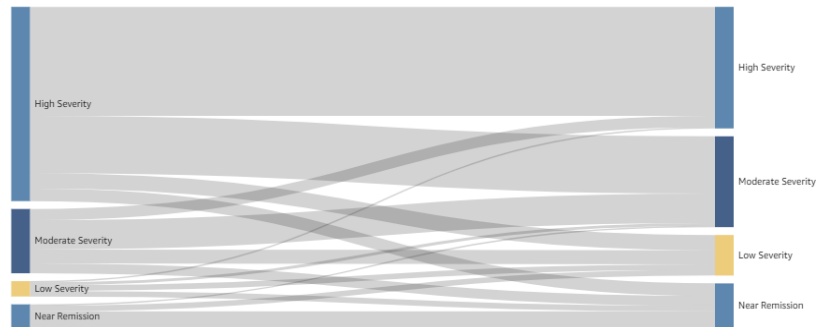

RESULTS

Rheumatology Dashboard Reporting Framework Example

% Patient with Baseline PROM

98.8%

% Patient with PROM in Last 6 Months

94.4%

% Patient with Completed Intervention when Score Worsens Consecutively

100.0%

Change in RAPID3 Severity: Baseline to Most Recent

CONCLUSIONS

Defining COMs

This project describes the importance of defining COMs for various disease states. This allows for consistent monitoring and reporting of COMs using disease-specific, technology-enabled clinical dashboards.

Reporting Framework

Data reporting framework is critical to optimizing patient care, confirming clinical goals and metrics are achieved, and ensuring the accurate reporting of outcomes data.

Sharing Information

Dashboards provide meaningful information to share with key stakeholders and is essential to accurately track benchmark data to further standardize care in the specialty pharmacy space.

REFERENCES

1. Patel K, Chim YL, Grant J, Wascher M, Nathanson A, Canfield S. Development and Implementation of Clinical Outcome Measures for Automated Collection Within Specialty Pharmacy Practice. J Manag Care Spec Pharm. 2020 Jul;26(7):901-909. doi: 10.18553/jmcp.2020.26.7.901. PMID: 32584676.

2. Anna M Hu, PharmD, BCPS, Marc J Pepin, PharmD, BCPS, BCGP, Mohamed G Hashem, PharmD, BCPS, Rachel B Britt, PharmD, BCPS, Sara R Britnell, PharmD, BCPS, William E Bryan, III, PharmD, BCPS, Jamie N Brown, PharmD, FCCP, BCPS, BCACP, Development of a specialty medication clinical dashboard to improve tumor necrosis factor-α inhibitor safety and adherence monitoring, American Journal of Health-System Pharmacy, 2021;, zxab454, https://doi.org/10.1093/ajhp/zxab454