DEVELOPMENT OF A PHARMACY COLLABORATIVE PRACTICE AGREEMENT TO IMPROVE EFFICIENCY AND MANAGEMENT OF PRESCRIBING IN A RENAL TRANSPLANT CLINIC

VANDERBILT VUNIVERSITY MEDICAL CENTER

Rachel Chelewski, PharmD, CSP¹ I Keren Johnson, PharmD, CSP¹ I Autumn Zuckerman, PharmD, BCPS, AAHIVP, CSP² I Megan Peter, PhD² I Josh DeClercq, MS³ I Leena Choi, PhD³ I Anthony Langone, MD⁴

¹ Vanderbilt Transplant Pharmacy, ² Vanderbilt Specialty Pharmacy, ³ Vanderbilt University Medical Center, Department of Biostatistics, ⁴ Vanderbilt University Medical Center, Department of Medical Specialties

BACKGROUND

Post-transplant patients require complex medication regimens to ensure the survival of the transplanted organ and patient overall well-being. These regimens are frequently adjusted, initiated, or discontinued after transplantation. Pharmacists integrated in transplant clinics can optimize patients' posttransplant medication use and safety.1

7/2014

 TN Pharmacist Association & TN Medical Association finalized legislation approving

7/2015

 Vanderbilt Renal Transplant Clinic & Vanderbilt Transplant Pharmacy developed a CPPA

12/2015

 Vanderbilt University Medical Center (VUMC) Pharmaceutical and Therapeutics Committee and VUMC Medical Board approved proposed CPPA

11/2016

 VUMC legal department defined the CPPAs and auditing requirements

2/2017

 TN Board of Pharmacy and the TN State Attorney General approved CPPA

3/2017

CPPA initiated in Renal Transplant Clinic

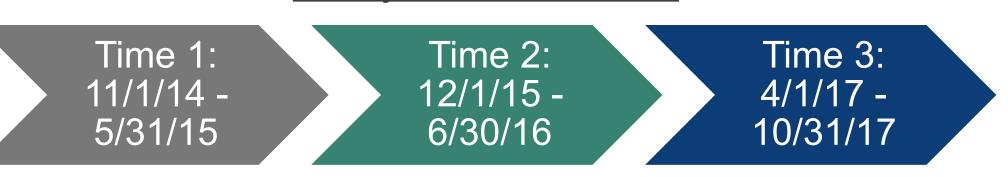
OBJECTIVE

Assess the impact of a Collaborative Pharmacy Practice Agreement (CPPA) between pharmacists and physicians on Rx volume, clinic workload, and safety outcomes.

METHODS

Retrospective cohort comparing the proportion of immunosuppressant prescriptions authorized by each clinician type (Pharmacist, Nurse, Physician) across three 7month intervals.

Study Time Intervals



 Before Pharmacists Prior to CPPA

 Established **CPPA**

Inclusion

- Adult patients 18+ years old
- Post renal transplant followed by Renal Transplant Clinic
- One or more immunosuppressant prescriptions authorized in all three time intervals

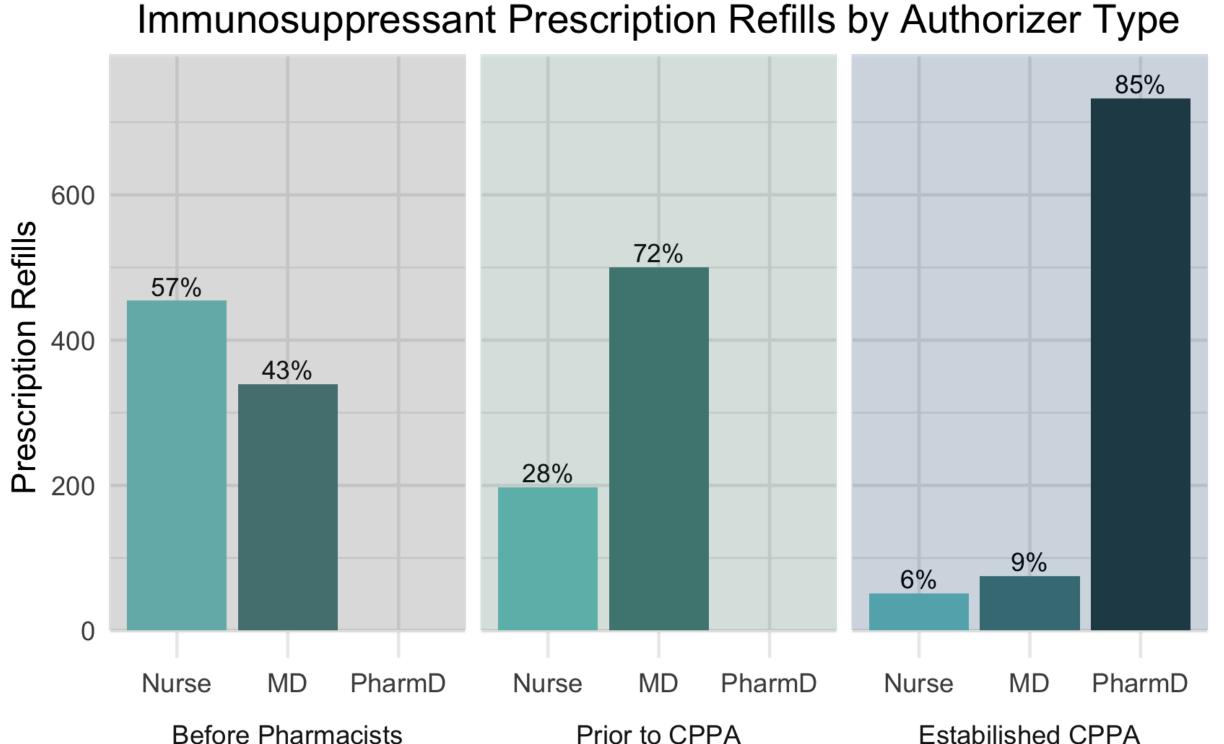
Exclusion

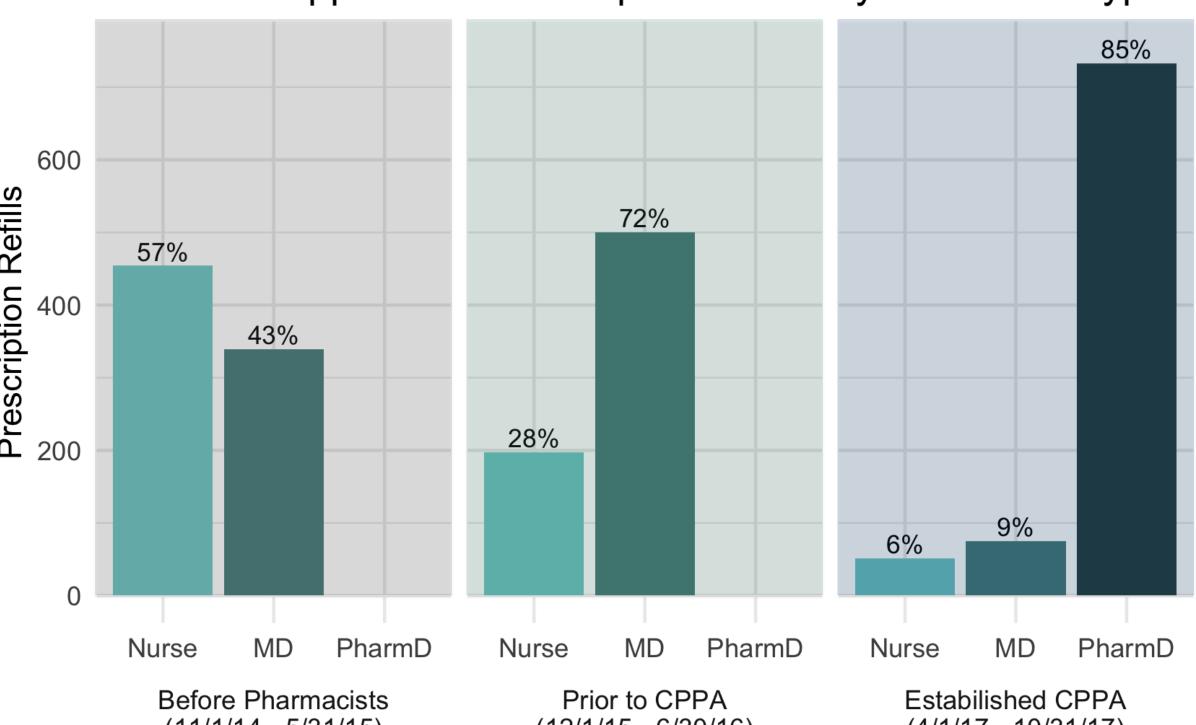
- Failed renal transplant
- Discharged from Renal Transplant Clinic
- Re-transplanted between 11/1/14 10/31/17

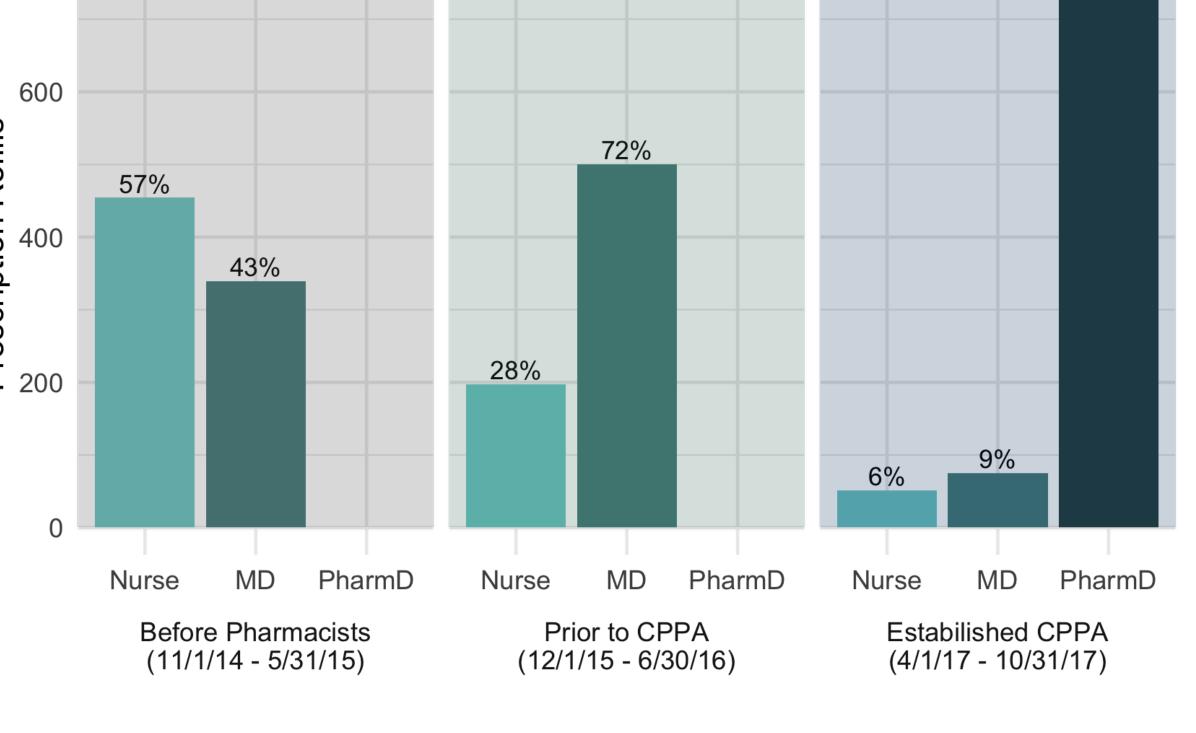
Measures

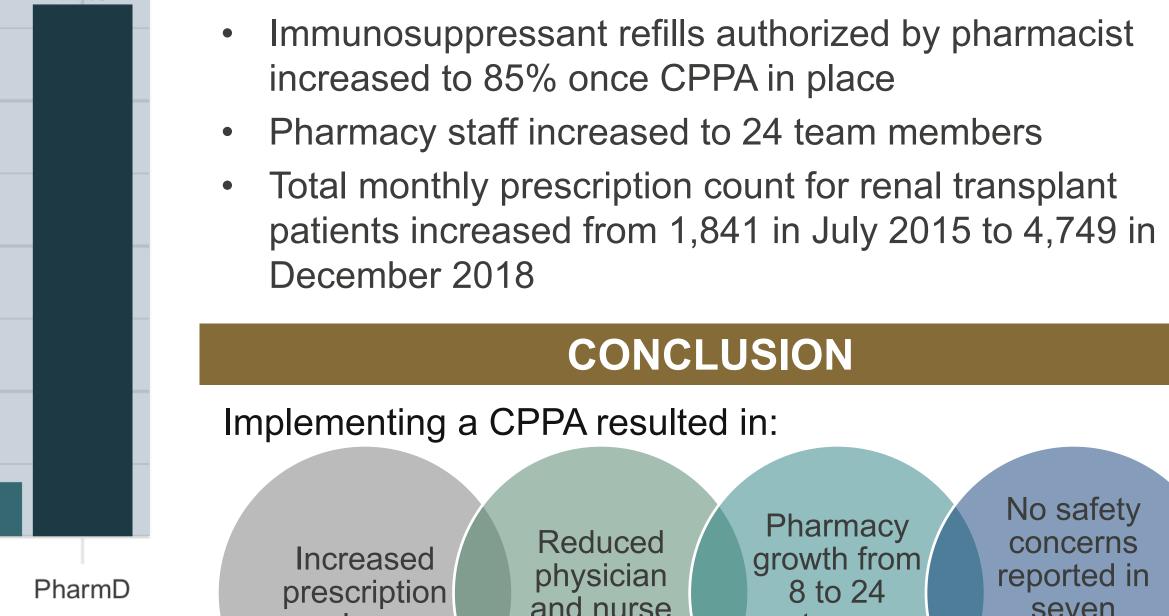
- Number of safety incidents as measured by Veritas quarterly reports
- Number of pharmacy staff members
- Number of immunosuppressant prescription refills authorized
- Total prescriptions filled including nonimmunosuppressants for renal transplant patients

RESULTS







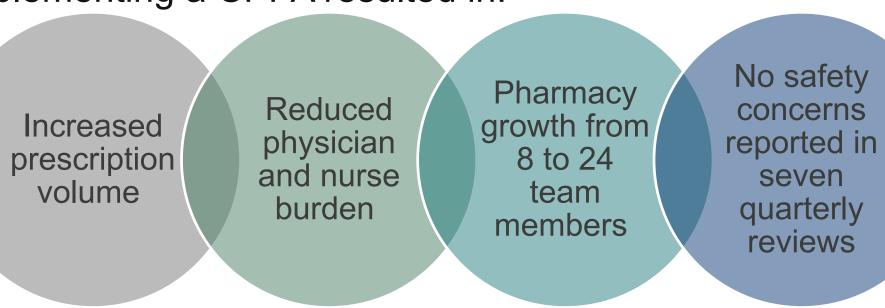


CONCLUSION

Reviewed 2,349 prescriptions during study time frame

Implementing a CPPA resulted in:

319 patients included in final results



This streamlined process from prescribing to dispensing prescriptions ensures close monitoring of posttransplant patients, while allowing physicians and nurses to dedicate more time to focus on patient care.

FUTURE DEVELOPMENT OF CPPA

VUMC is actively working to initiate CPPAs in other clinics across Vanderbilt. Our goal is to continue to expand services provided by pharmacists with a CPPA.

REFERENCES & ACKNOWLEDGEMENTS

Kidney Disease: Improving Global Outcomes (KDIGO) Transplant Work Group. KDIGO Clinical Practice Guideline for the Care of Kidney Transplant Recipients. Am J Transplant 2009;9:S1-157.

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