

DEVELOPMENT OF COMPUTER-BASED ADHERENCE MONITORING OF IMMUNOSUPPRESSANT ADHERENCE IN KIDNEY TRANSPLANT PATIENTS

CHRIS HAYES, PHARMD, BCMTMS • RACHEL CHELEWSKI, PHARMD, CSP • KEREN RODRIGUEZ, PHARMD, CSP • AUTUMN ZUCKERMAN, PHARMD, BCPS, AAHIVP, CSP • KATIE CRUCHELOW, PHD

HIGHLIGHTS

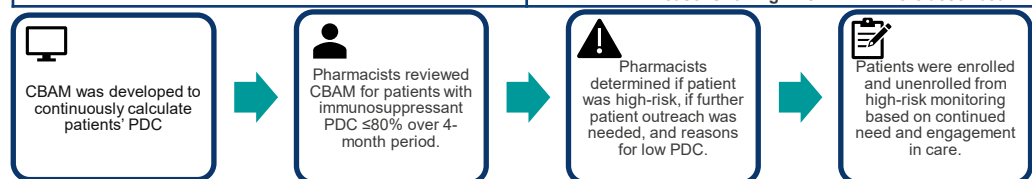
- Transplant pharmacists with access to outpatient pharmacy data are **uniquely positioned to integrate clinical and pharmacy data to develop a comprehensive assessment of medication adherence** in kidney transplant patients.
- The novel computer-based adherence monitoring (CBAM) developed **capitalizes on clinical and pharmacy data to empower targeted adherence monitoring and outreach**, resulting in a **reduction in non-adherence**.
- **The high rate of misidentified non-adherence reasons** highlights the **challenge of using Proportion of Days Covered (PDC) alone as an indicator of adherence**.

PURPOSE

This study evaluated the effect of utilizing CBAM on patients with poor adherence to immunosuppressant therapy (12-month PDC \leq 80% and 4-month PDC \leq 80% at each quarter)

METHODS

Setting	Outpatient transplant pharmacy at a large academic hospital
Sample	Adult patients with a kidney transplant who filled immunosuppressants at the center from 1/1/2022 - 6/30/23
Analysis	<p>Descriptive statistics were used to evaluate:</p> <ul style="list-style-type: none"> The percent of enrolled high-risk at each quarter over 18 months of using CBAM (1/1/2022-6/30/2023) Reasons for high-risk CBAM were described.



Results

Figure 1: All High-Risk Patients with PDC Below 80% (N=305)

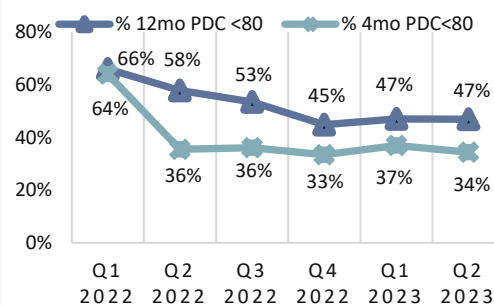


Figure 2: Patients with PDC Below 80% Served by VUMC Pharmacy (N=305)

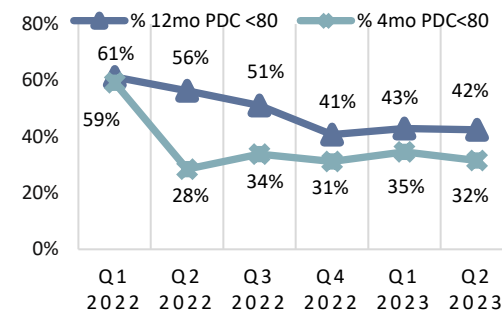


Figure 3: High Risk Reasons (N=305)

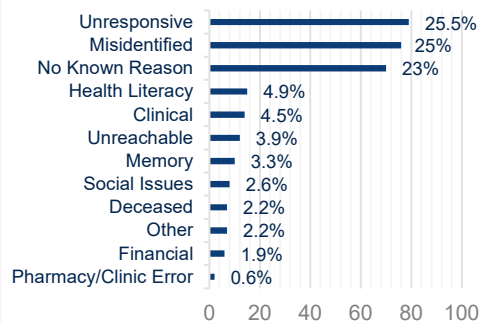
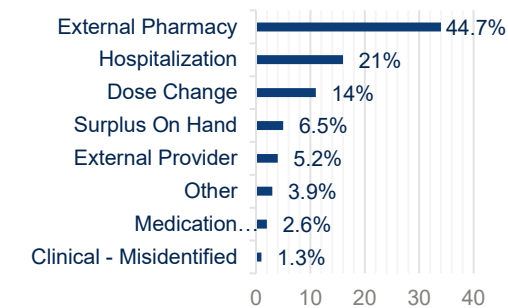


Figure 3: High Risk Misidentified Reasons (N=76)



Acknowledgments and Disclosures: We would like to acknowledge Jacob Bell for his work developing the CBAM software for this project.