



COMMUNITY PHARMACY FOUNDATION
COMPLETED GRANT SYNOPSIS

Title: Evaluation of Data Collection Software for Medication Therapy Management in the Community Pharmacy Setting

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Grant Classification: Practice Advancement (emphasis on technology)

Objectives

- 1) To evaluate Medcompass® as a data collection program for its use in Medication Therapy Management
- 2) Analyze the following MTM outcomes via descriptive statistics for diabetes and hypertension MTM services
 - Diabetes MTM
 - Change in hemoglobin A1c
 - % of patients with hemoglobin A1c < 7% at third MTM intervention
 - Blood Pressure MTM
 - Change in systolic and diastolic blood pressure readings
 - % patients with BP < 140/90 mm Hg
 - % patients at BP goal (<130/80 mm Hg) at third MTM intervention if has diabetes
- 3) To evaluate the acceptance of recommendations made to physicians from MTM interventions
- 4) Evaluate consumer acceptance of, and willingness to pay for participating in the use of the Medcompass® application and the pharmacist MTM intervention.

Methods

For further information and/or materials on this grant, please visit www.CommunityPharmacyFoundation.org and submit your inquiry through **Contact_Us**.

Design	<p>Design: A minimum of 10 participants with a diagnosis of diabetes or hypertension will be enrolled at each of the ten sites.</p> <p>Inclusion Criteria</p> <ol style="list-style-type: none"> 1. Male or female between the ages of 18 and 75 2. Patient on 4 or more chronic medications 3. Patient has at least one chronic medication for treatment of diabetes or hypertension 4. Total monthly cost of medication exceeds \$200 5. Signed consent from the participant <p>Exclusion Criteria</p> <ol style="list-style-type: none"> 1. Participants that cannot obtain transportation to the KHCC 2. Participants that can not speak and/or read English 3. Participants who are pregnant or nursing 4. End-stage renal disease or dialysis <p>Methods: Each participant will elect to complete three MTM interventions for 30 minutes for either diabetes or hypertension. A minimum of 10 participants (5 with diabetes, 5 with hypertension) will be enrolled at each site.</p> <p>Timeline</p> <table border="1" style="margin-left: 40px;"> <tr> <td>Timeline</td> <td>Baseline</td> <td>Week 6</td> <td>Week 12</td> </tr> <tr> <td>Visit</td> <td>Visit 1*</td> <td>Visit 2</td> <td>Visit 3*</td> </tr> </table> <p>* Hemoglobin A1c</p>	Timeline	Baseline	Week 6	Week 12	Visit	Visit 1*	Visit 2	Visit 3*
Timeline	Baseline	Week 6	Week 12						
Visit	Visit 1*	Visit 2	Visit 3*						

Study endpoints	<ul style="list-style-type: none"> • Comparing the Medcompass group to the Control group • Evaluating patient satisfaction of the MTM service and willingness to pay for the MTM service • Physician acceptance rate
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Results

- Reduction in hemoglobin A1c was greater in the Medcompass group compared to the Control group (-1.3% vs -0.98% respectively)
- Reduction in systolic blood pressure was greater in the Medcompass group compared to the Control group (-8.1mmHg vs 0.14mmHg respectively)
- Reduction in diastolic blood pressure was greater in the Medcompass group compared to the Control group (-1.4mmHg vs 0.86mmHg respectively)

Conclusion

- Study provided a small sample size due to enrollment issues and patient's lost to follow-up
- The Medcompass group had a larger percentage of patients meeting recommended goals (BP<140/90 and hemoglobin A1c <7%); a larger reduction in hemoglobin A1c, systolic BP, and diastolic BP; and more overall satisfaction by patients
- The Control group had a larger percentage of patients meeting recommended goals for BP <130/80 if they had diabetes, a reduction in hemoglobin A1c, and a small increase in systolic and diastolic BP
- Overall the Control group's patient satisfaction was less compared to the Medcompass group
- In both groups, physicians were more likely to accept recommendations related to blood pressure medications but less likely to accept recommendations related to diabetes medications