THE HICKORY PROJECT¹

An Employer and Health Plan Diabetes Collaboration

Description:

A longitudinal, 3-year (2007-2009), quasi-experimental, multisite, pre-/post-enrollment study was conducted to assess the long-term clinical and financial outcomes of a chronic care management model for patients with diabetes, using the Asheville care management model that was successful in the management of several chronic diseases.

The Hickory Project study is a report on the results of the first 3 years of working with Hickory Springs Manufacturing Company, headquartered in Hickory, NC. The company has 4,500 self-funded health plan members located in more than 60 operational facilities in the United States. American Health Care, a clinical pharmacy services provider, recruited, trained, and monitored healthcare professionals (aka, intensive chronic care managers) in best practices, patient counseling, and documentation.

Interventions:

Similar to the Asheville Project, participants received the following:

- · One-on-one counseling
- Blood pressure assessment
- Medication assessment
- · Laboratory review
- · Health knowledge assessment
- · Lifestyle education
- Goal-setting guidance

The intensive chronic care manager's role was to schedule sessions with patients on a regular basis (ie, an average of every 3 months) to determine if there was a treatment plan in place by their physician and to determine:

- What is the plan?
- Is the plan appropriate?
- Does the patient understand the plan?
- Is the patient following the plan?
- Is the plan working?

The patients' physicians remained the primary decision makers; however, recommendations were made to physicians when deficiencies were identified. When deficiencies warranted further assessment or when therapy changes had to be considered, patients were referred back to their physicians.

Results:

A total of 95 patients were in the program for 1 year or longer. Of these, 54 patients participated all 3 years and had at least a 1-year history of claims data plus 3 years of program period claims data. The results were as follows:

- The percentage of patients who achieved the American Diabetes Association's (ADA) A1C less than 7% goal increased from 38% at the start of the study (or at enrollment) to 53%.
- The percentage of patients who achieved the recommended LDL-C goal of less than 100 mg/dL increased from 46% to 67%.
- The percentage of patients achieving the recommended systolic blood pressure goal of less than 130 mm Hg increased from 55% to 72%.
- · The percentage of patients achieving the recommended diastolic blood pressure goal of less than 80 mm Hg increased from 60% to 71%.
- Only 37% of patients entering the study had the ADA-recommended annual eye examination in the year before the study, which increased to 61% by the end of the study.
- The number of patients regularly self-testing blood glucose levels increased from 79% at baseline to 97% at the end of the study.

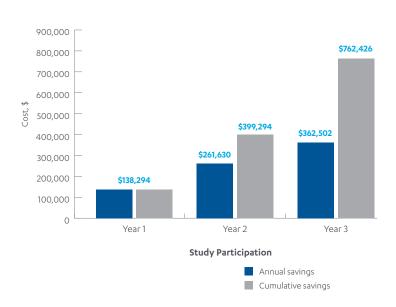
THE HICKORY PROJECT1

The return on investment average during the 3 years of this study was \$8.48 for every \$1 spent on the program using a trended/projected cost comparison.

Medical and Prescription Costs for Patients Enrolled for 3 Years

\$11,848 \$10,235 \$8,974 \$10,107 \$8,212 Cost, \$ \$6.233 \$4 642 \$3.524 1 year Before Enrollment Year 1 Year 2 Year 3 **Study Participation** Medical Cost, PPPY

Projected Annual and Cumulative Savings for 54 Participants Enrolled for 3 Years



These results demonstrate that it may be possible to produce improvements in clinical outcomes and reductions in healthcare costs for patients with diabetes using a chronic care model that offers frequent patient follow-up, a focus on appropriate medication therapy, adherence to clinical practice guidelines, and a reduction in prescription co-payments for antidiabetes medications as an incentive for participation.



Reference: 1. Bunting BA, Lee G, Knowles G, Lee C, Allen P. The Hickory project: controlling healthcare costs and improving outcomes for diabetes using the Asheville project model. Am Health Drug Benefits. 2011;4(6):343-350.



CarePath Healthy Engagements is a comprehensive program designed to help improve the lives of people living with type 2 diabetes and assist those that care for them. CarePathHealthyEngag

This information has been developed by Janssen Pharmaceuticals, Inc., and made widely available to support patient and provider education.

Perscription Cost, PPPY

PPPY indicates per participant per year.

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