

Problem

There is a need to address medication non-adherence among the elderly

Background

Elderly medical non-adherence costs over 14 billion annually¹

Over 50% did not know their medication's purpose¹

Over 75% did not know potential side effects¹

Clinical Trial

Who: 500 UMass Memorial Patients (65+)

What: 8-Item Morisky Adherence Scale

When: 15 Months

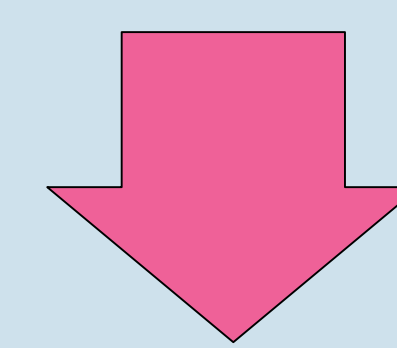
Where: Worcester, Massachusetts

References

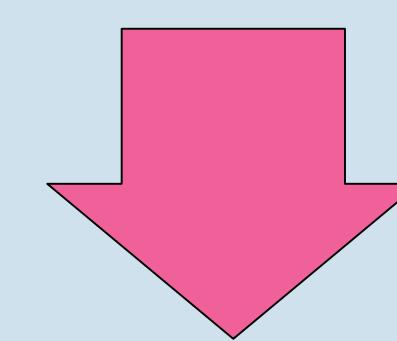
1. Marek KD, Antle L. Medication Management of the Community-Dwelling Older Adult. In: Hughes RG, editor. Patient Safety and Quality: An Evidence-Based Handbook for Nurses. Rockville (MD): Agency for Healthcare Research and Quality (US); 2008 Apr. Chapter 18. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK2670/>
 2. Dr. Sarah McGee MD. Personal Communication, 2017 November 28.
 3. Raynor, D. K., Booth, T. G., & Blenkinsopp, A. (1993). Effects of computer generated reminder charts on patients' compliance with drug regimens. *BMJ: British Medical Journal*, 306(6886), 1158-1161.

Approach

Store patient's medication regimen in their electronic medical records

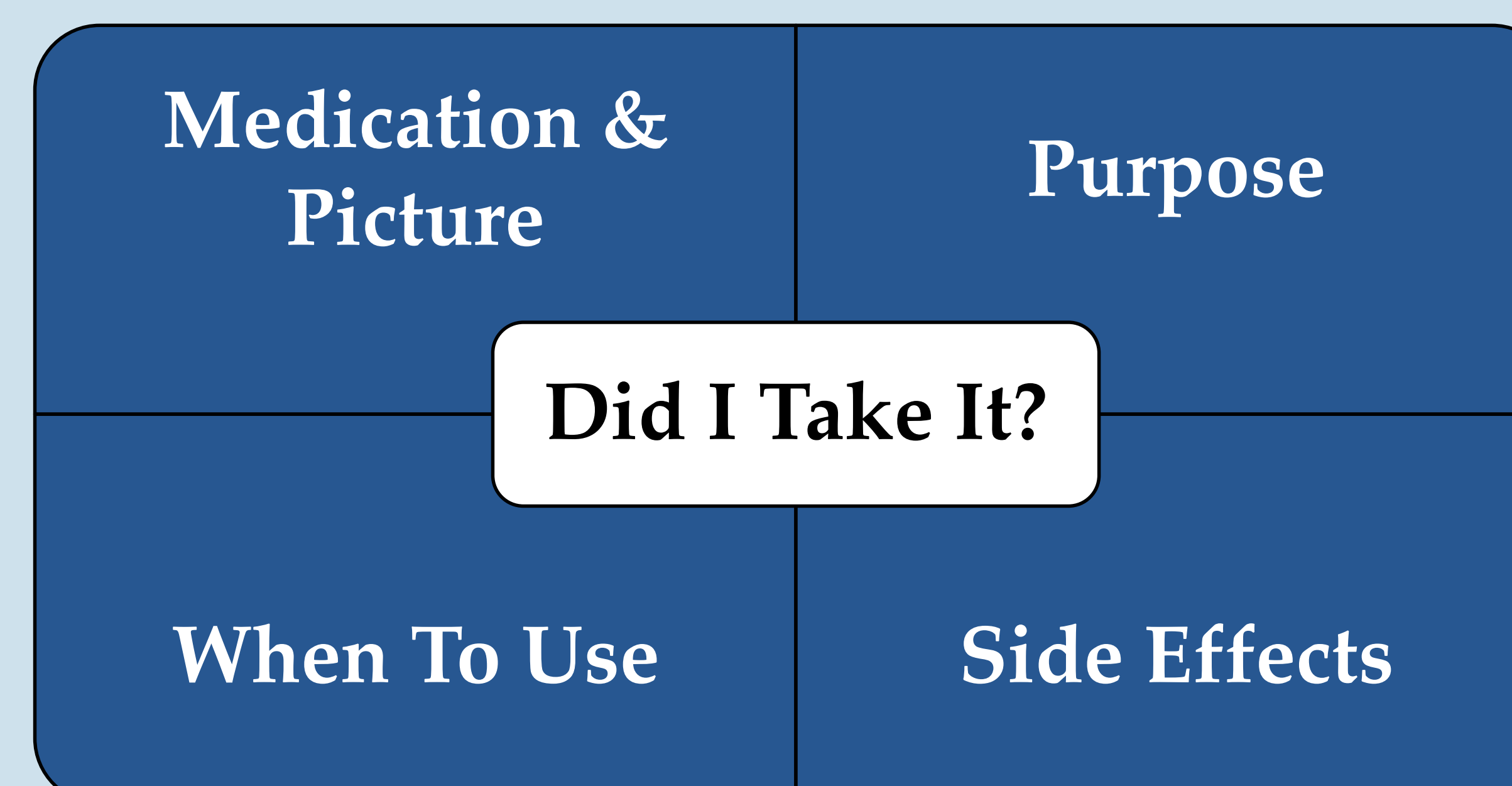


Create an easy-to-understand, instructional chart



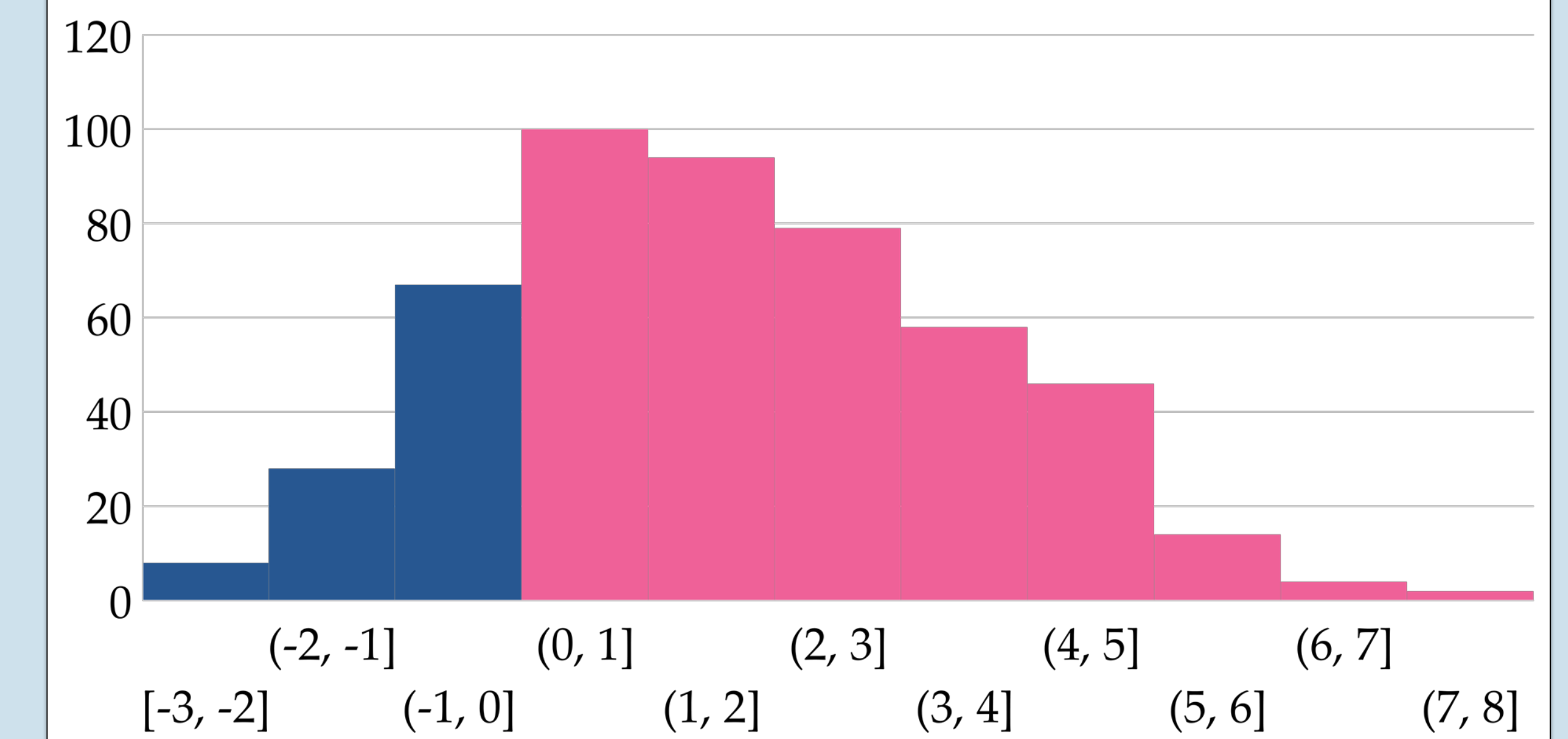
Print out the chart for the patient's personal use

Chart Contents



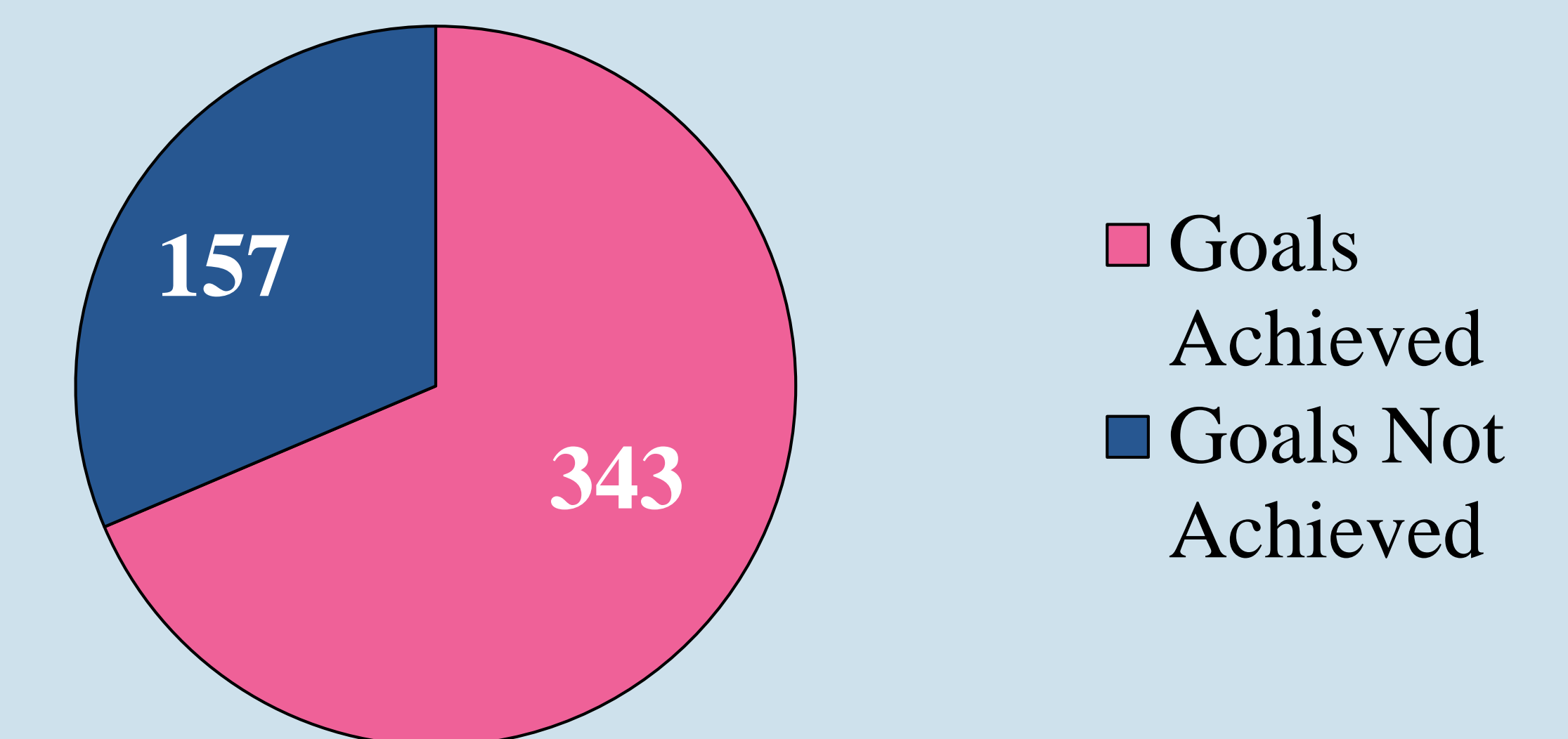
Anticipated Results

Change in 8-Item Morisky Adherence Scale^{2,3}



The average patient improved adherence by 2.83 points on the Morisky Scale while using the chart

Clinician Assessment Success^{2,3}



The goals were achieved when patients took their medication on time and as prescribed

Discussion

- Implement as a subscription service
- Partner with insurance companies
- Link with an educational program
- Will not aid patients with memory issues