#557: Association of patient navigation with cancer health spending among Medicare Advantage members: A difference in differences analysis

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Background

- Patient navigation can help patients overcome health care system barriers and facilitate timely access to health care throughout the cancer experience, but is an intervention that has not scaled.
- Research from single institutions makes interpretation of generalizability and potential for scale difficult. Further, ROI has not been validated in commercial populations.
- Thyme Care is a venture-funded digital health company that is able to provide virtual patient navigation services at scale.
- Thyme Care is contracted with several regional and national payers who have delegated financial risk of sub-populations with cancer.
- This study assesses the association between virtual, third-party provided patient navigation and changes in total episode spending among Medicare Advantage members with cancer on active therapy.

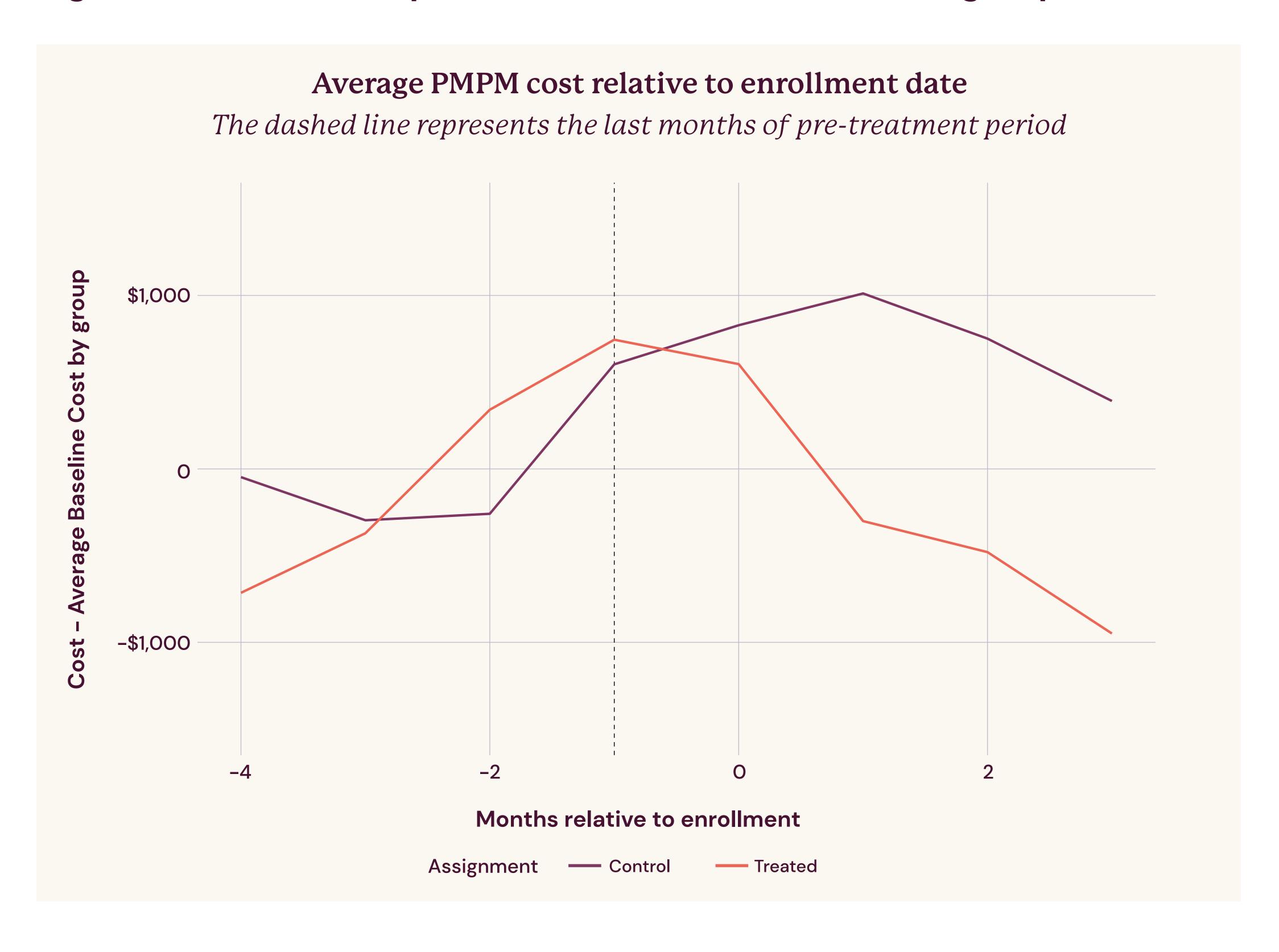
Methods

- Design: Retrospective cohort analysis
- Data source: Claims data and administrative data from a regional MA payer, Clover, for the New Jersey market
- Study population: 446 matched members between March 2022 and February 2023, representing 3,005 distinct member-months. Analyses include all MA patients with breast cancer, chronic leukemia, lung cancer, lymphoma, multiple myeloma, prostate cancer, and small intestine/colorectal cancer.
- Outcome: Spending outcomes in the period following systemic drug therapy initiation.
- Analysis: Difference-in-differences, with staggered enrollment.

Virtual patient navigation provided by an external third-party was associated with reductions in total episode spending in Medicare Advantage.

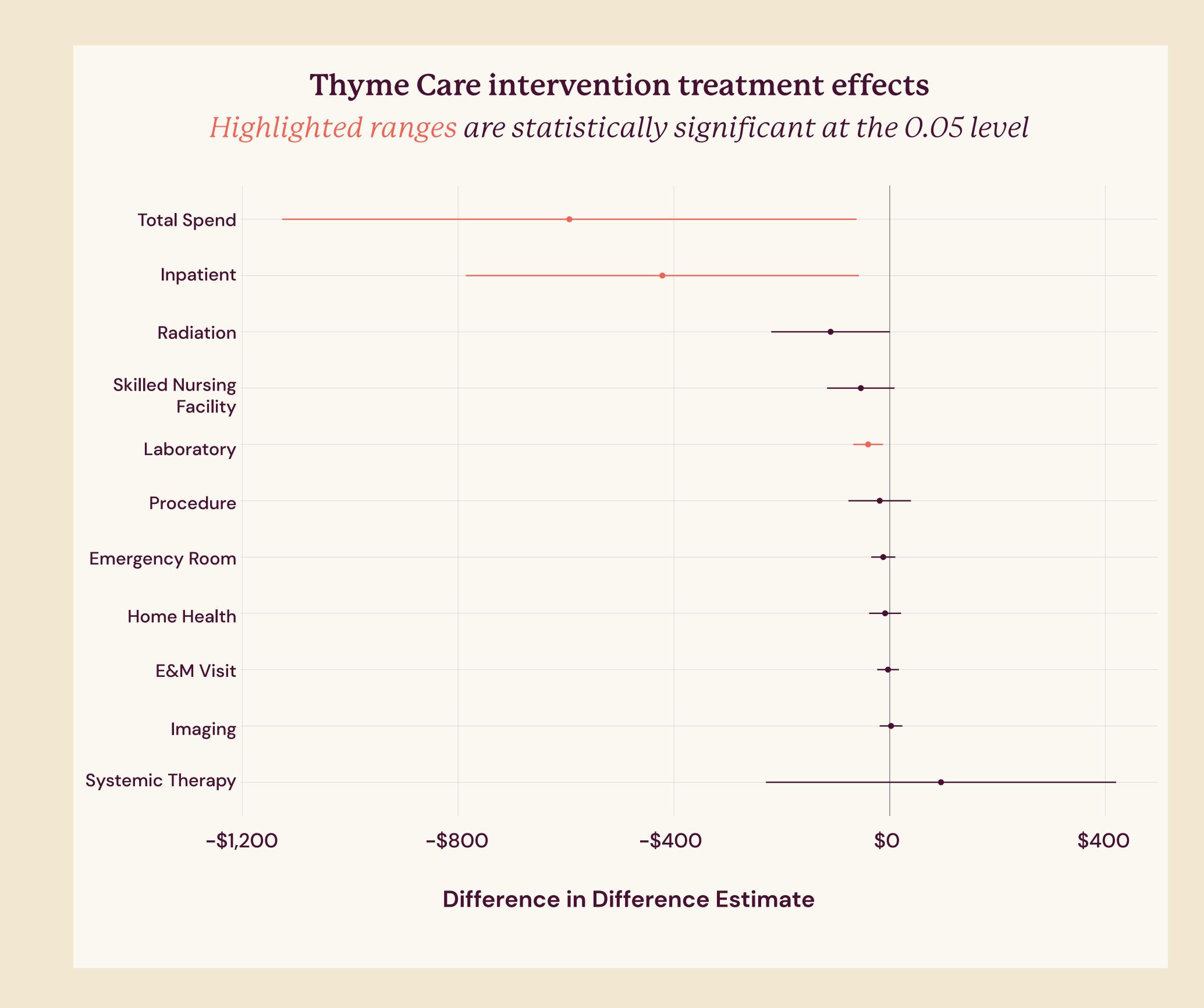
Results

Figure 1. Baseline and performance trends for the two groups



Translates to a DiD estimate of -\$594 PMPM reduction in TCOC in the navigated cohort.

Figure 2. Unadjusted comparison of total episode payments in navigated and control cohorts



DiD estimates are PMPM.

Conclusions

- Virtual patient navigation provided by an external thirdparty was associated with significant reductions in total episode spending for Medicare Advantage members.
- These findings are consistent with a previous unpublished study that used propensity-matched cohorts to assess the efficacy of Thyme Care's model, suggesting that they are robust to inclusion of different time periods and using different methods of analysis.