

Reducing Potentially Avoidable Hospitalizations in Nursing Facilities: Annual Analyses for the Centers for Medicare & Medicaid Services (CMS)

2020 Internship Showcase

Dhwani Hariharan, MS

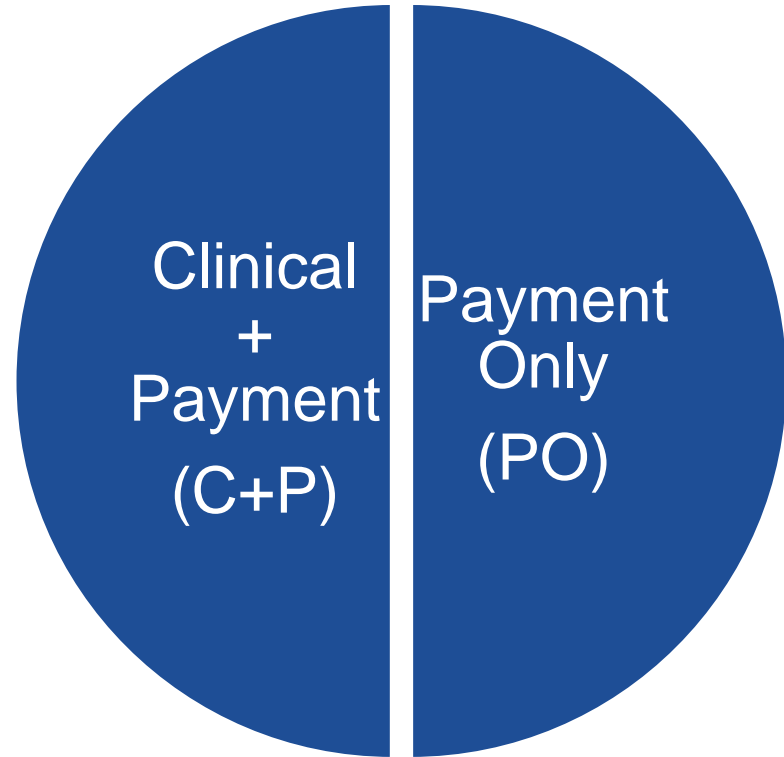
Brandeis

internships@rti.org



CMS Initiative

- Objective: To reduce potentially avoidable hospitalizations by diagnosing and treating residents within the nursing facility for specific conditions
- Method: By offering clinical support and educational training to participating nursing facilities in Phase 1 and, additionally, financial incentives to selected facilities in Phase 2 of the initiative



Key Research Questions



- Implementation
- Facility buy-in



- Effect on Medicare
 - Expenditure
 - Use

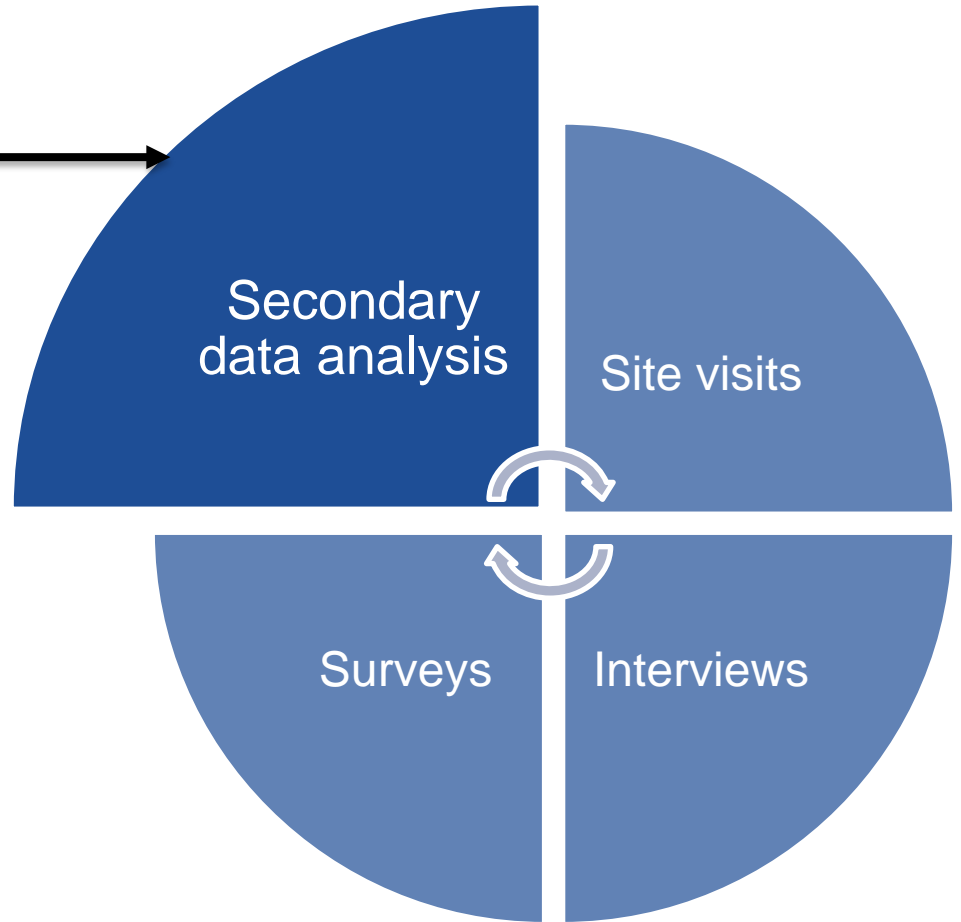


- Impact on quality of care at facilities

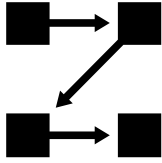
Types of Analyses

Focus of quantitative methods team →

- Claims analyses to assess facility billing differences across facilities by group (C+P, PO) in Phase 2
- Difference-in-difference (DD) multivariate regression modeling to compare initiative-eligible facility residents to non-initiative population. Other comparators include a national comparison group and a within-state reference group



Internship Deliverables



Writing programming requests for analyses

Quality control, output checks



Tabulation and visualizations

Interpretation of results and report writing



Final report submission to client



Internship Learning Experience



- Using econometric methods
- Conducting health care program evaluations
- Presenting results
- Employing evidence-based policymaking
- Working as part of a team

Acknowledgments



Special thanks to members of the quantitative
methods team:
Micah Segelman, Helena Voltmer, and Ben Huber!

References and Image Sources

- *Figures adapted from:* Ingber, M., Feng, Z., Khatutsky, G., et al. Evaluation of the initiative to reduce avoidable hospitalizations among nursing facility residents. Third Annual Report. Report for Centers for Medicare & Medicaid Services. Waltham, MA: RTI International, Dec. 2019. Available at: <https://downloads.cms.gov/files/rahnfr-phasetwo-thirdannrpt.pdf>
- Getty Images slide 3:
 - <https://www.gettyimages.com/detail/illustration/round-table-icon-royalty-free-illustration/899785370?adppopup=true>
 - <https://www.gettyimages.com/detail/illustration/loan-money-icon-royalty-free-illustration/1057136494?adppopup=true>
 - <https://www.gettyimages.com/detail/illustration/star-icon-royalty-free-illustration/1129712692?adppopup=true>

Image Sources

- Getty Images slide 5:

- <https://www.gettyimages.com/detail/illustration/process-flow-with-arrows-icon-royalty-free-illustration/1223667462?adppopup=true>
- <https://www.gettyimages.com/detail/illustration/document-with-check-mark-black-and-white-royalty-free-illustration/1073139332?adppopup=true>
- <https://www.gettyimages.com/detail/illustration/assessment-keywords-with-icons-royalty-free-illustration/1127558424>
- <https://www.gettyimages.com/detail/illustration/research-icons-royalty-free-illustration/1166477477?adppopup=true>
- <https://www.gettyimages.com/detail/illustration/assessment-keywords-with-icons-royalty-free-illustration/1127558424>

- Getty Images slide 6:

- <https://www.gettyimages.com/detail/illustration/research-icons-royalty-free-illustration/1166477477?adppopup=true>



Thank you

Contact: Dhwani Hariharan | email: internships@rti.org