UPSTATE MEDICAL UNIVERSITY

Pediatrics

WHERE?

5-464-3519

Background:

Hospitalized children are more likely than other children to have passive smoke exposure (PSE). PSE is an independent predictor of poor health outcomes in pediatric patients. Adult smoking rates in our area (18.5%) are higher than the national average (13.5%). A child's hospitalization can be an opportunity to address, counsel, and provide resources for parental smoking cessation. Taking advantage of this opportunity requires PSE documentation, but only 59% of our pediatric patients were screened. Preliminary observations of the PSE screening workflow generated a secondary hypothesis that diagnosis and demographic factors were driving screening practice.

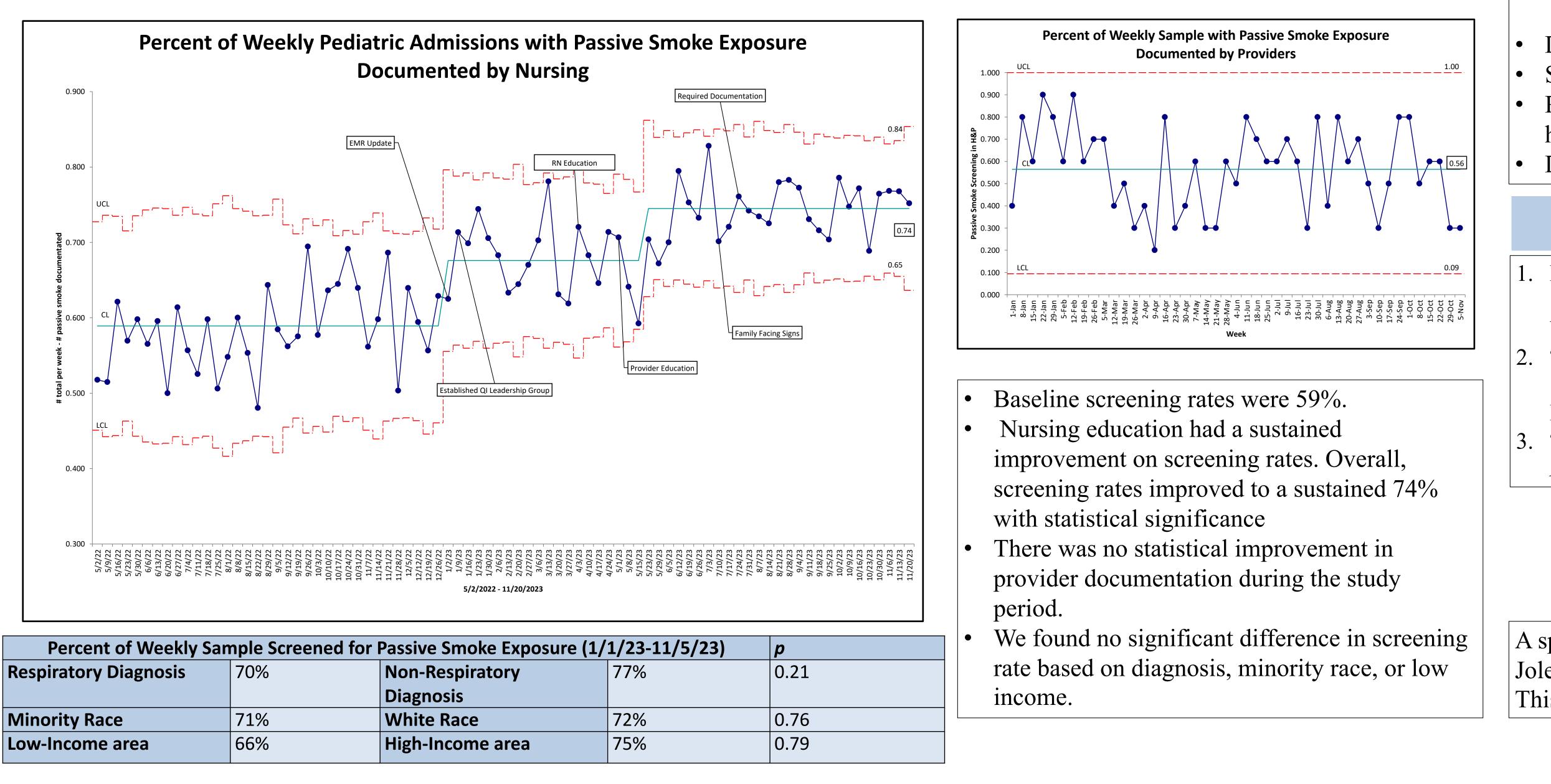
Aim:

Global AIM: To screen all pediatric inpatients for PSE and to provide counseling and resources to the smoking parent. SMART AIM: The first phase of the study was to improve PSE documentation by 20% within 6 months.

Methods:

We identified the PSE screening process by nurses and physicians, engaged stakeholders, and identified drivers of PSE screening performance to drive improvement. Interventions for nurses began with an education session and signs at nursing stations encouraging PSE documentation. Later, NPs and providers were provided education sessions on PSE, downstream health effects, and how to counsel on smoking cessation. Additionally, signs were placed in the providers' offices. Next, family facing signs were posted offering parents smoking cessation resources and counseling during their child's stay. Finally,

- PSE was added to the required nursing intake form. • Chart review was performed by sampling the first 10 consecutive patients admitted each week from 1/1/23-11/5/23 to determine demographic data and provider documentation.
- Using Federal Income Guidelines, we determined zip codes with a medical income above \$55,500 (household size 4) as "high income" and below \$55,500 as "low income".
- PSE nursing documentation data was collected through the EMR on all pediatric patients admitted from 11/4/22-11/20/23.
- Statistical process control charts were generated to document performance and Shewhart rules were used to identify improvements meeting criteria for special cause. Pearson's chi squared tests were utilized in comparing demographic and diagnosis data.

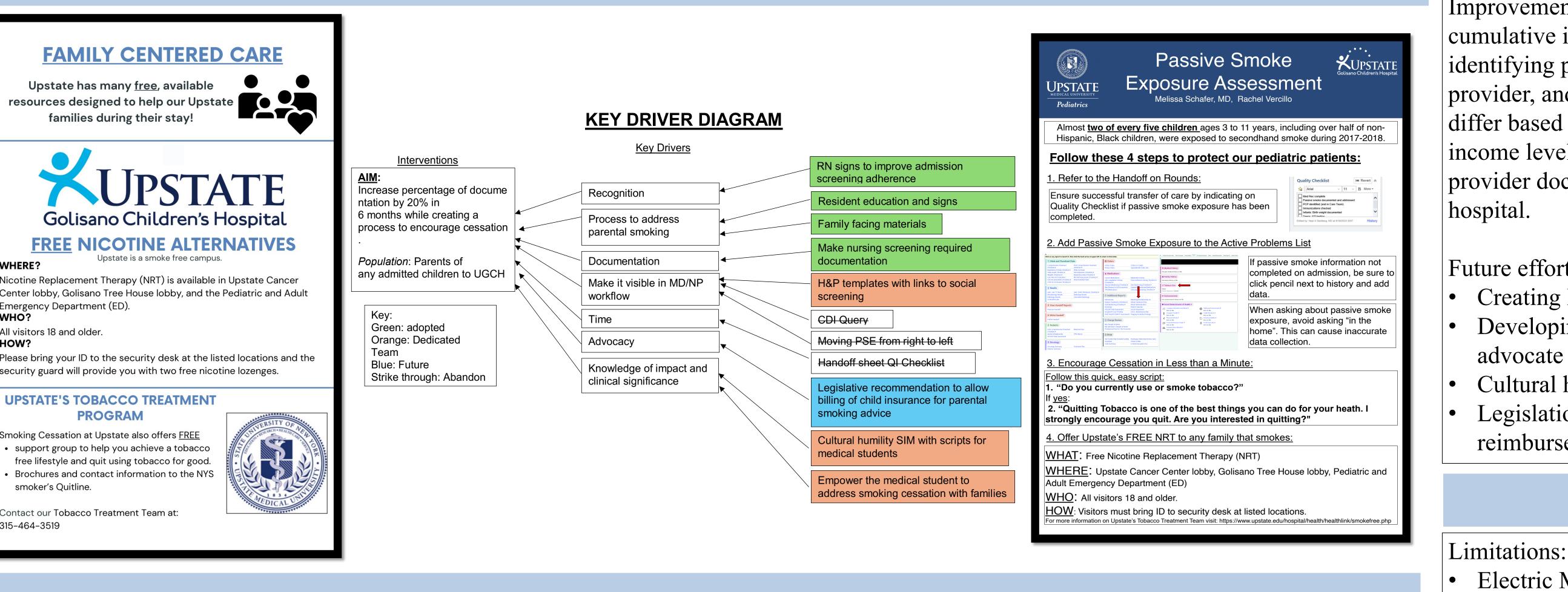


Minority Ra Low-Incom

Improving Passive Smoke Exposure Screening for Hospitalized Children

Rachel Vercillo¹, Ahmed Souid², MD, Melissa Schafer², MD ¹SUNY Upstate Norton College of Medicine, ²Department of Pediatrics, Golisano Children's Hospital, SUNY Upstate University Hospital

Interventions:



Results:

| nt of Weekly Sample Screened for Passive Smoke Exposure (1/1/23-11/5/23) | | | | p |
|--|-----|------------------|-----|------|
| y Diagnosis | 70% | Non-Respiratory | 77% | 0.21 |
| | | Diagnosis | | |
| ace | 71% | White Race | 72% | 0.76 |
| e area | 66% | High-Income area | 75% | 0.79 |
| | | | | |



Discussion:

Improvement in screening for PSE was seen after cumulative interventions to address the importance of identifying passive smoke exposure from a nursing, provider, and family viewpoint. Screening for PSE did not differ based on the child's race, admitting diagnosis, or income level. Further interventions are needed to address provider documentation of passive smoke exposure at our

- Future efforts should be focused on:
- Creating H&P templates for providers
- Developing roles for medical students to document and
- Cultural humility training
- Legislation efforts for cessation counseling reimbursement

Limitations:

- Electric Medical Record (EMR)
- If nurse did not document on main screen would be unaccounted for
 - Preliminary reporting errors
- Demographic data collection weekly samples
- Staff turnover
- Possible differences due to other social determinants of health
- Does not address vaping or marijuana use

References:

Merianos AL, Jandarov RA, Mahabee-Gittens EM. Secondhand Smoke Exposure and Pediatric Healthcare Visits and Hospitalizations. Am J Prev Med. 2017 Oct. "Places: Local Data for Better Health: Compare Counties." Centers for Disease Control and Prevention, Centers for Disease Control and Prevention (CDC). "2023-2024 Federal Income Guidelines." New York State

Department of Health.

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