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## Improving Pneumococcal Vaccination Rates in High Risk Patients Across Multiple Specialty Divisions

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# Improving Pneumococcal Vaccination Rates in High Risk Patients Across Multiple Specialty Divisions

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## Children's Mercy Kansas City, Kansas City, Mo

### Introduction

- Pediatric patients with deficient immune systems or certain chronic medical conditions have an increased risk of acquiring invasive pneumococcal disease.
- The 23-valent pneumococcal (PPSV23) vaccine provides protection against 23 pneumococcal serotypes and is recommended for patients aged 2 years or older who are high-risk for invasive pneumococcal diseases.
- Unfortunately, many high-risk patients are not properly vaccinated due to lack of provider knowledge or understanding of accountability between primary care and specialty providers.
- The goal of this project was to improve PPSV23 vaccination rates by 10-20% points across multiple Children's Mercy Kansas City specialty divisions.

### Methods

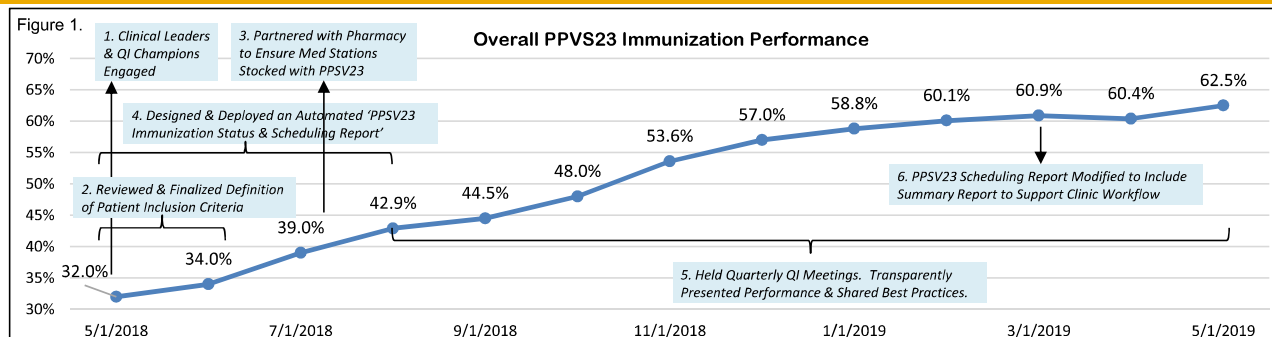
Several improvement interventions between May 2018 and May 2019 (Figure 1)

- Engaged clinical leaders and quality improvement champions in infectious diseases, pulmonology, and rheumatology
- Reviewed and finalized definition of patient inclusion criteria for high risk pneumococcal vaccination in alignment with CDC/ACIP immunization recommendations.<sup>1</sup> Confirmed PCPs not administering or stocking PPSV23
- Partnered with pharmacy to ensure med stations adequately stocked with PPSV23
- Designed and deployed an automated weekly 'PPSV23 Immunization Status & Scheduling' report to inform pre-visit planning
- Quarterly quality improvement meetings held to review performance, share best practices, and share lessons learned
- 'PPSV23 Immunization Status & Scheduling Report' modified to include summary page to more effectively integrate information into specialty clinic workflow

### References

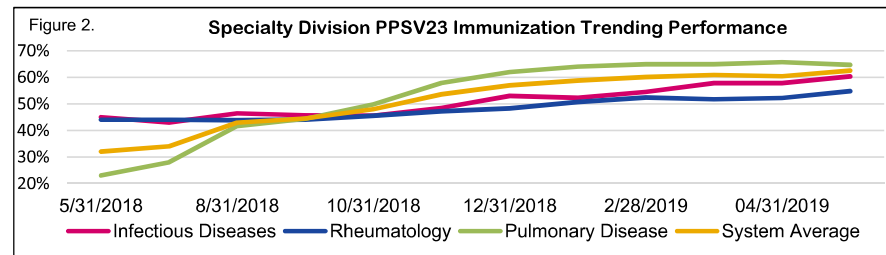
- CDC. 2019. *Recommended Child and Adolescent Immunization Schedule for Ages 18 Years or Younger*.

### Methods



### Results

- PPSV23 immunization rates increased by over 30 percentage points from 32.0% to 62.5% [Figure 1]
- Rheumatology improved by 25%, infectious diseases by 34%, and pulmonology by 181% [Figure 2]



### Conclusions

- In 1 year, PPSV23 vaccination rates almost doubled!
- Best practices will continue to be identified, refined, and integrated across specialty divisions.
- With proven PPSV23 vaccination improvement methods, additional specialty divisions will be recruited.
- To support engagement, team will add opportunity for specialists to receive American Board of Pediatrics Maintenance of Certification Part 4 credit for project participation.
- Initiative will have opportunity to reach more than 10,000 additional high-risk patients in need of protection from invasive pneumococcal disease.