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# Determinants of Meningococcal Vaccination Coverage: A Targeted Literature Review Supporting a 16-year-old Healthcare Visit

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## Background

- Invasive meningococcal disease is an acute, life-threatening disease and is a leading cause of bacterial meningitis and sepsis in the United States (US)<sup>1</sup>
- The Advisory Committee on Immunization Practices (ACIP) recommends routine administration of a meningococcal serogroup A, C, W, Y (MenACWY) vaccine for adolescents and recommends a meningococcal serogroup B (MenB) series based on shared clinical decision making (SCDM) between patients/caregivers and providers:

<p><b>MenACWY vaccines</b></p> <ul style="list-style-type: none"> <li>Initial dose recommended at age 11–12 (since 2005)<sup>2</sup></li> <li>Booster dose recommended at age 16 (since 2010)<sup>2</sup></li> </ul>	<p><b>MenB vaccines</b></p> <ul style="list-style-type: none"> <li>Vaccination series recommended based on SCDM at age 16–23, preferably age 16–18 (since 2015)<sup>3</sup></li> </ul>
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In 2019, the American Academy of Pediatrics (AAP), American Academy of Family Physicians (AAFP), American College Health Association (ACHA), and four other US health organizations issued a joint letter to urge the implementation of an annual well-visit and vaccinations for 16-year-olds<sup>4</sup>

## Objective

To understand the challenges for MenACWY and MenB vaccination coverage in the US and identify key evidence to support improvement of MenACWY and MenB vaccination coverage in older adolescents (age 16+)

## Methods

**Targeted literature review (TLR)** to identify and synthesize available evidence on the challenges of MenACWY and MenB vaccination coverage

- Sources**
- Database search (January 1, 2011–August 7, 2021)
  - Bibliographies from published review articles
  - Gray literature
  - Hand search of select conference proceedings

**Screening** according to predefined population, intervention, comparator, outcome, time, and study design (PICOTS) criteria

**Synthesis**

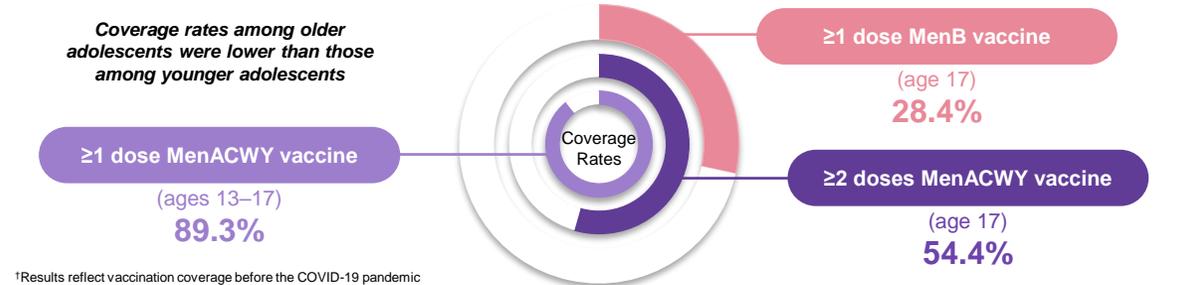
Qualitative software (ATLAS.ti) used to code studies using a predetermined codebook mapped to the TLR objectives, as well as free coding to allow for themes to organically emerge

## Results

### Literature Search

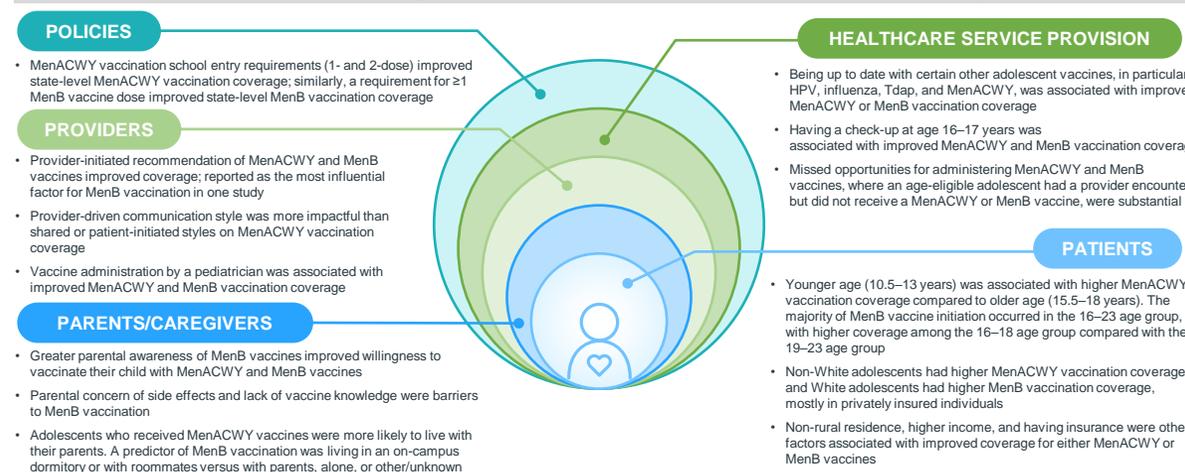


### Coverage Rates<sup>†</sup> (National Immunization Survey-Teen data from 2020<sup>5</sup>)



<sup>†</sup>Results reflect vaccination coverage before the COVID-19 pandemic

### Determinants of Improved MenACWY and MenB Vaccination Coverage



## Key Takeaways

- Scheduling** well-child, preventive, or vaccination-only appointments **at appropriate ages** for older adolescents, using the healthcare encounter as an opportunity for meningococcal vaccination
- Actions could be taken by providers, healthcare system administrators, and policy makers to improve meningococcal vaccination coverage
  - Embracing a **provider-initiated and provider-driven communication style** with patients during visits
  - Enacting **school entry immunization policies** in states that are currently lacking them
- Educating providers** (particularly non-pediatricians) about meningococcal disease and **clarifying the implementation of SCDM** for MenB vaccination in healthy adolescents and young adults

## Conclusion

Collectively, the evidence identified in this review supports a renewed call to action by local and national health authorities and medical organizations urging healthcare professionals to implement a 16-year-old healthcare visit and focus on vaccination as a key component of the visit