



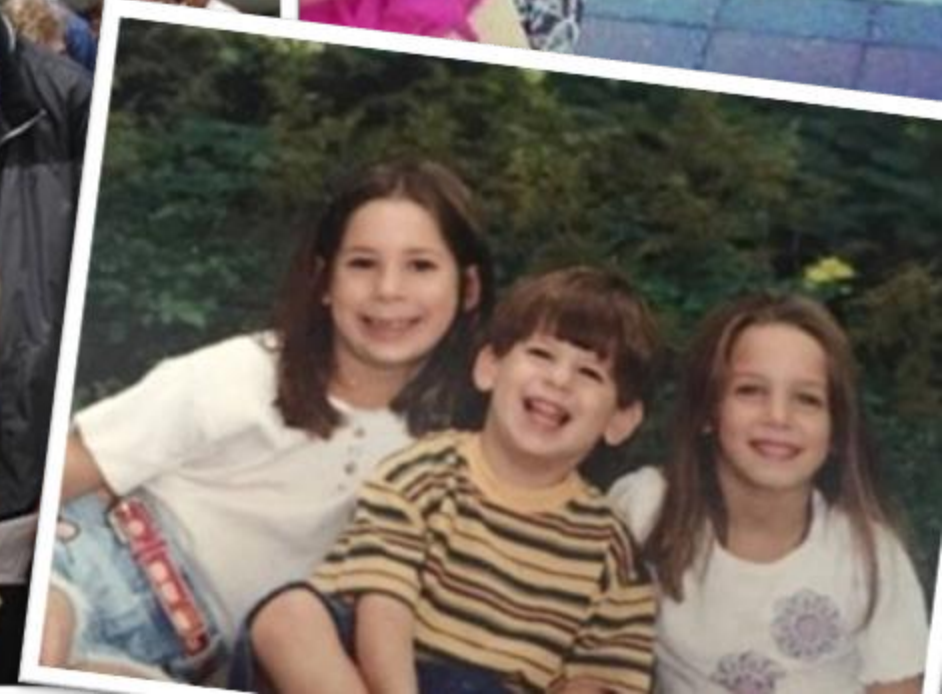
AMERICAN
SOCIETY FOR
MENINGITIS
PREVENTION

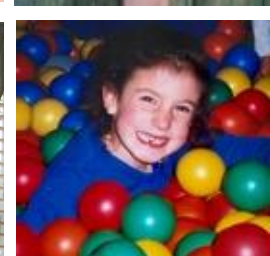
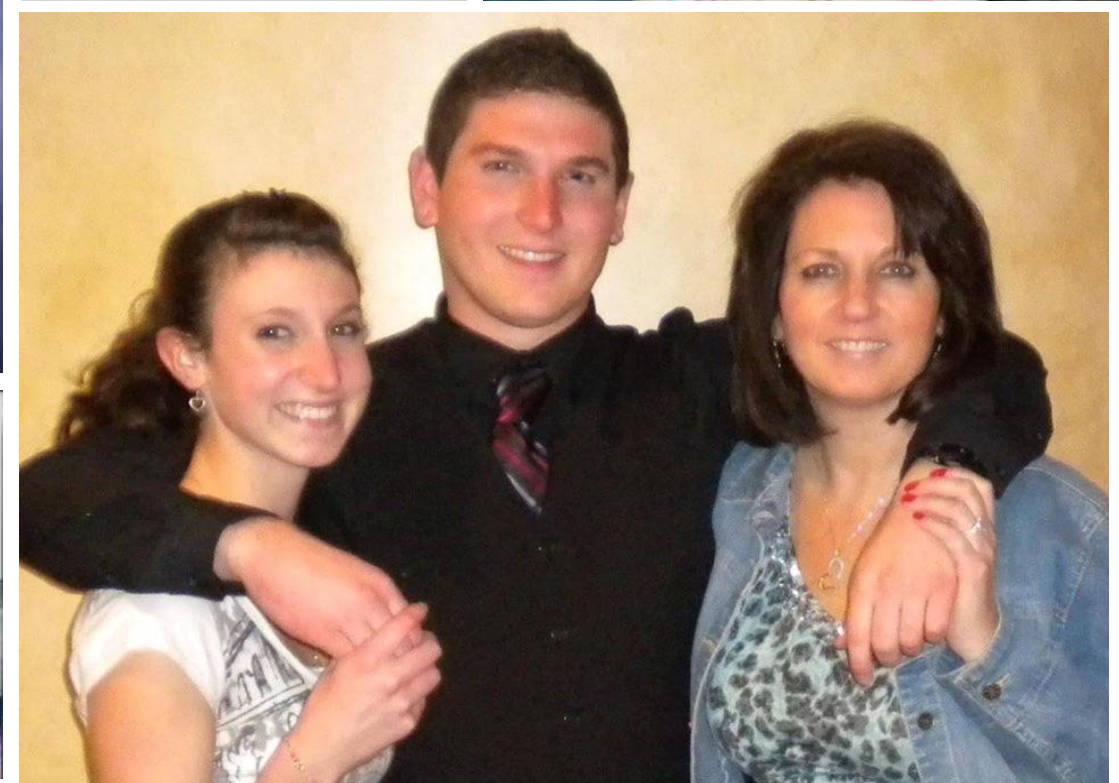
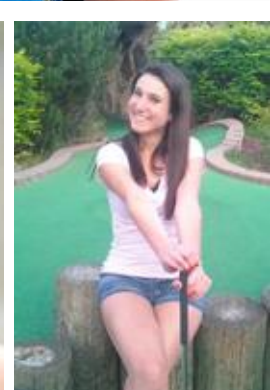
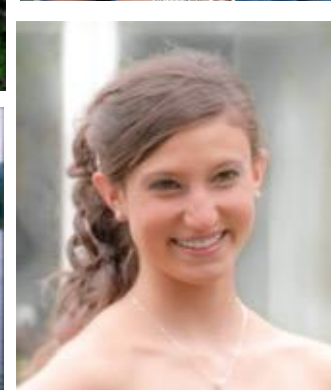
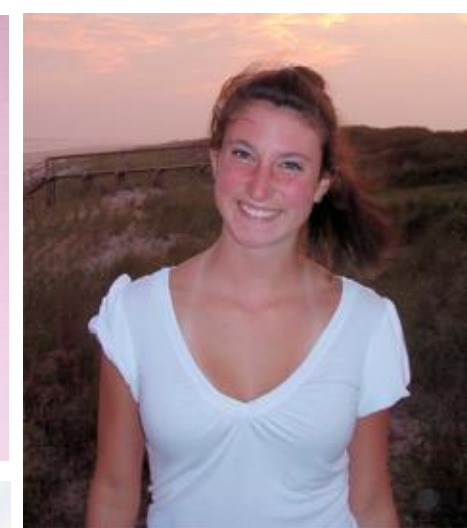
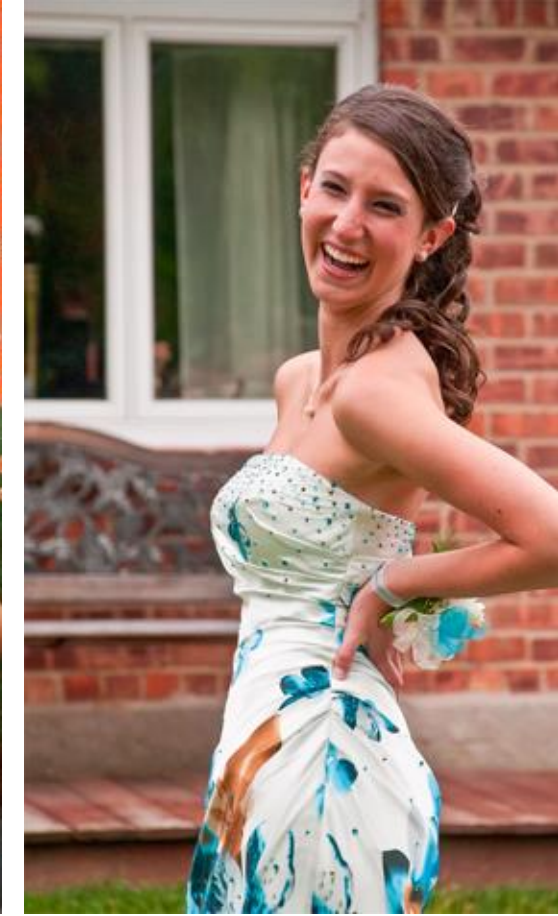
Protecting Maine from Meningitis: Why It Matters and How You Can Help

Alicia Stillman, MBA, MPH

Patti Wukovits, BSN, RN, AMB-BC







Meet the American Society for Meningitis Prevention

Formerly the Meningitis B Action Project



The American Society for Meningitis Prevention works to empower all people to take action to prevent meningococcal meningitis.

Key Areas of Focus

- ✓ Patient and parent education
- ✓ Healthcare provider education
- ✓ Policy advancement
- ✓ Vaccination equity
- ✓ Advocacy training



Emily Stillman



Kimberly Coffey

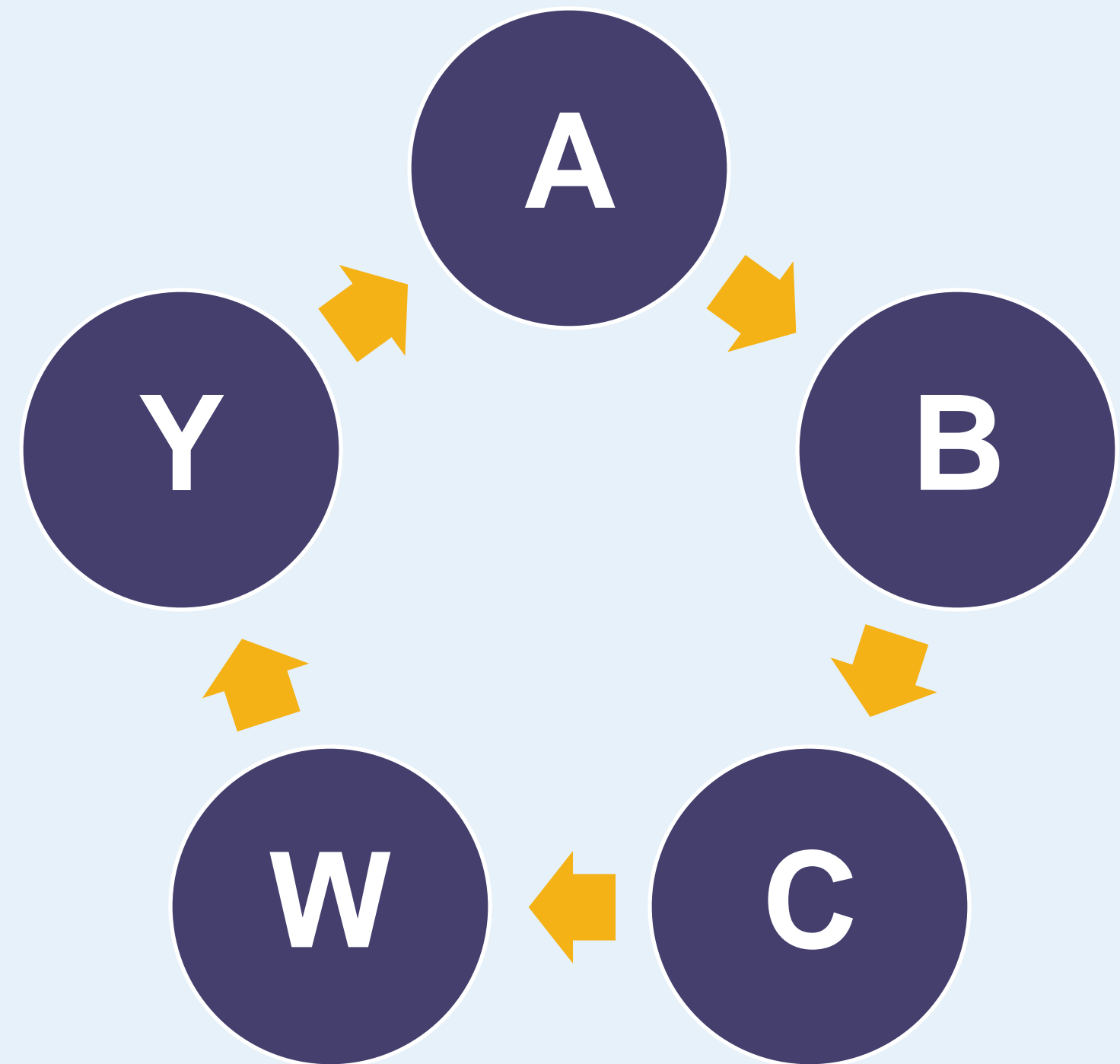


Overview of Meningitis and the Prevention Landscape

Meningococcal Meningitis is....

...the most common form of bacterial meningitis in adolescents and young adults.

...mainly caused by 5 types of meningococcal bacteria:
A-B-C-W-Y.



The 2 Most Common Types of Meningococcal Infections Are...

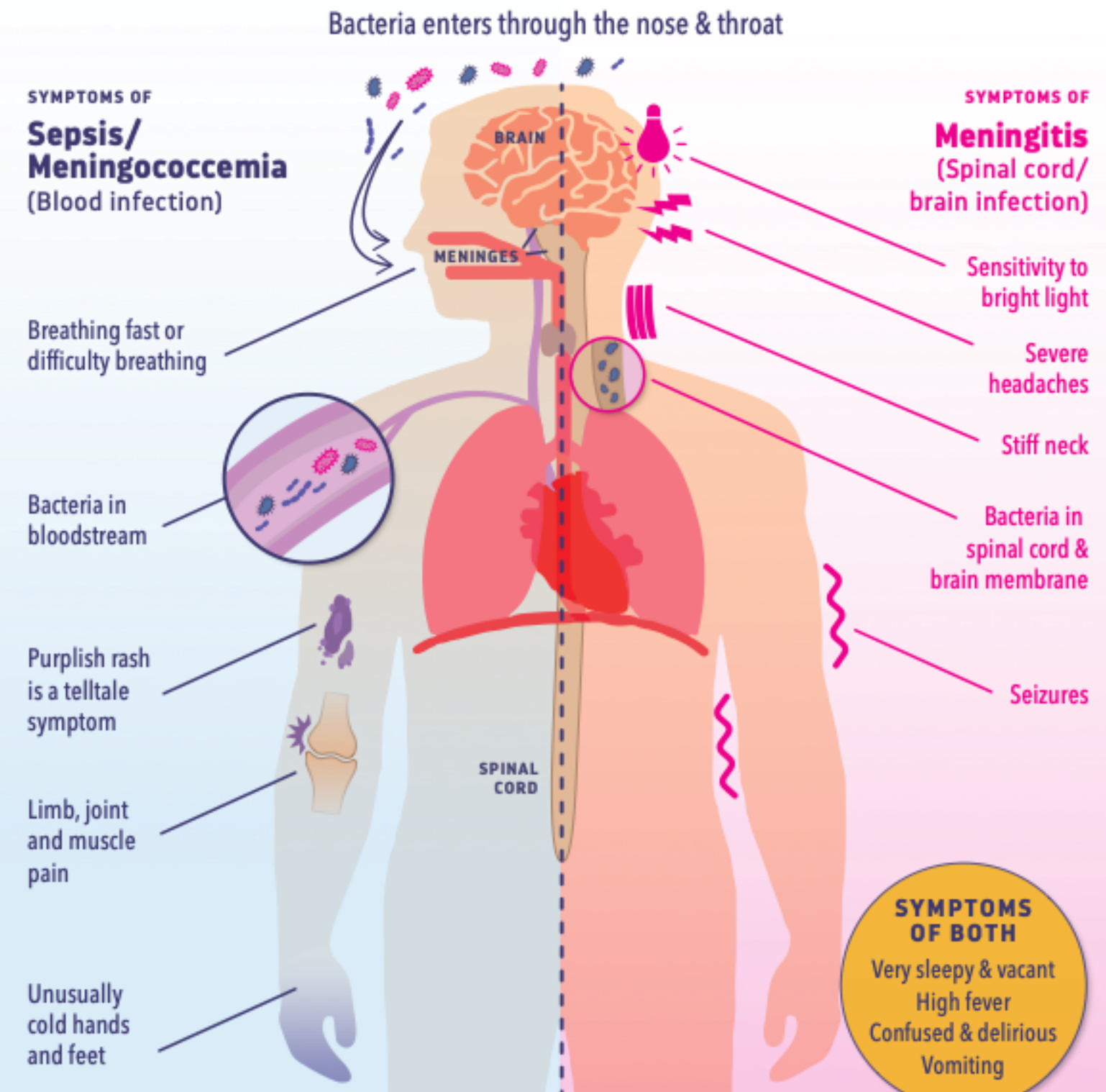
...Meningococemia (bloodstream infection that may lead to sepsis)

...Meningitis (infection of the membranes that surround the brain and spinal cord)

MENINGOCOCCAL MENINGITIS CAN KILL IN A MATTER OF HOURS.

MENINGOCOCCAL BACTERIA CAN CAUSE SEPSIS OR MENINGITIS. BOTH ARE DEADLY.

BE AWARE OF SUDDEN OR SEVERE ONSET OF THESE SYMPTOMS



CONTACT YOUR HEALTH CARE PROVIDER RIGHT AWAY IF YOU EXPERIENCE ANY OF THESE SYMPTOMS.



ASMP
AMERICAN SOCIETY FOR
MENINGITIS
PREVENTION

Symptoms, Transmission, & Complications

- It is **easy** to spread from person-to-person
- It can attack **without warning**
- It can **kill** in a matter of hours
- **1 in 10** will die
- **1 in 5** will face permanent complications, like limb loss or brain damage

SYMPTOMS



HOW IT IS TRANSMITTED



Meningococcal Vaccines

There are 3 types of vaccines currently available in the United States.



MenACWY

**Routinely
Recommended**

Many high schools and colleges require it.



MenB

**Shared Clinical Decision-
Making Recommendation**

Few colleges and universities require it.

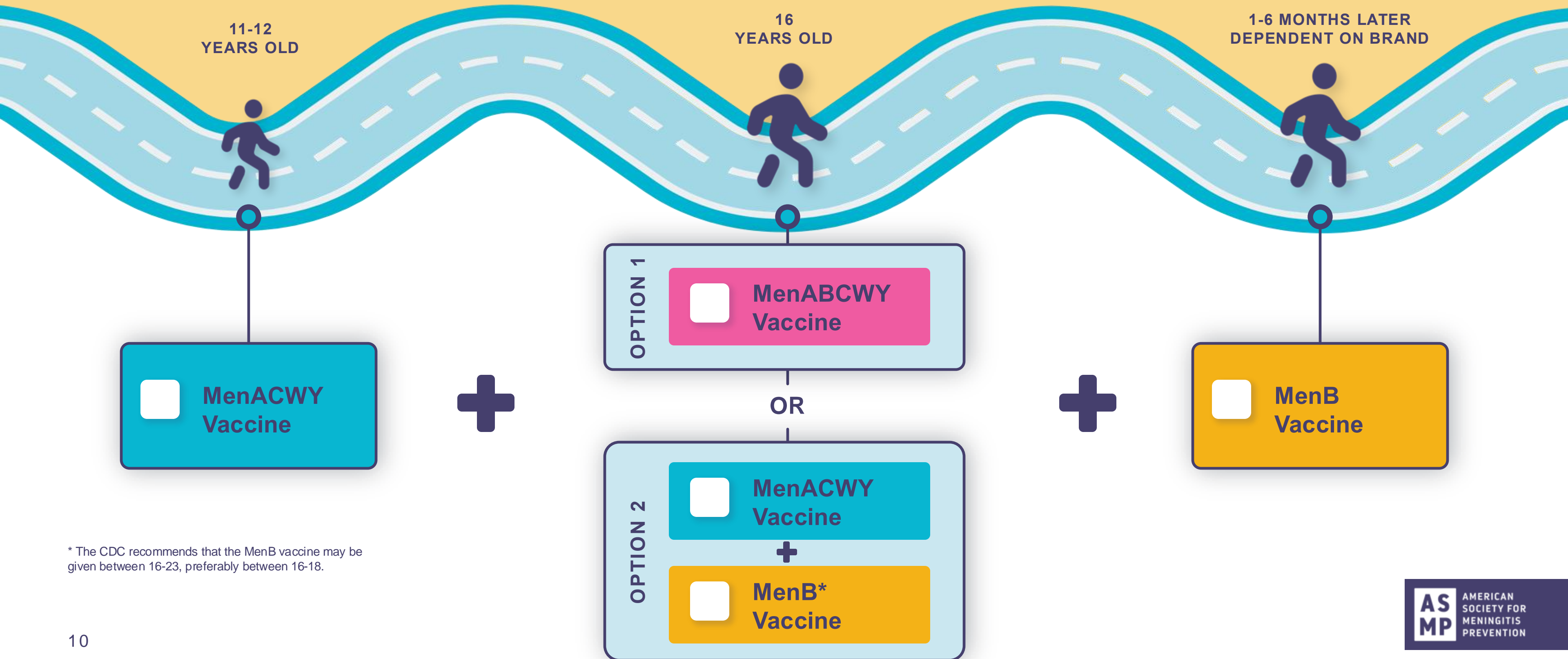


MenABCWY

Just Approved!

For use when getting MenACWY and MenB vaccines in the same visit.

When Should **Meningitis** Vaccination Occur?



Critical Issues Affecting Meningitis Vaccination

01 The uptake of MenB vaccine is much lower than that of MenACWY vaccine.

Source: CDC, 2023

02 Recommendations for the meningococcal pentavalent vaccine are difficult to implement in clinical practice.

Source: U.S. Meningococcal Immunization Physician Survey, 2023

03 Cases of meningococcal meningitis are rising with new levels of unpredictability.

Source: CDC, 2024

04 Meningitis vaccination coverage rates vary by poverty status, race and ethnicity, and health insurance status.

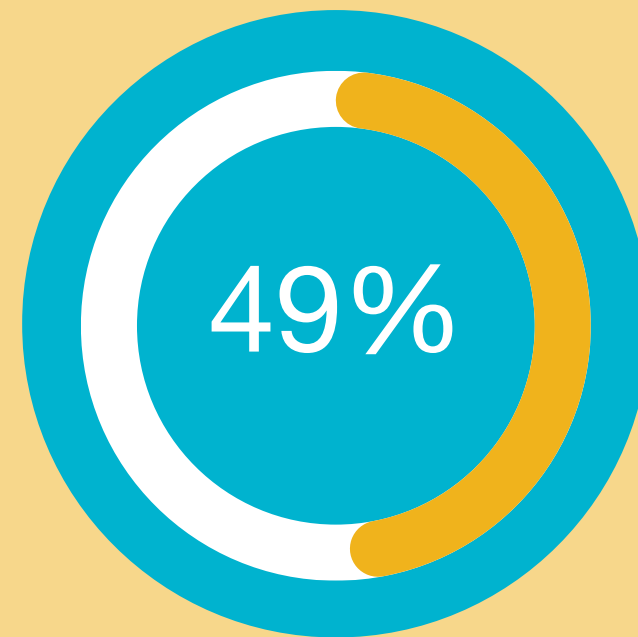
Source: CDC, 2023

05 The ACIP is expected to revisit meningococcal meningitis vaccine recommendations in June 2025.

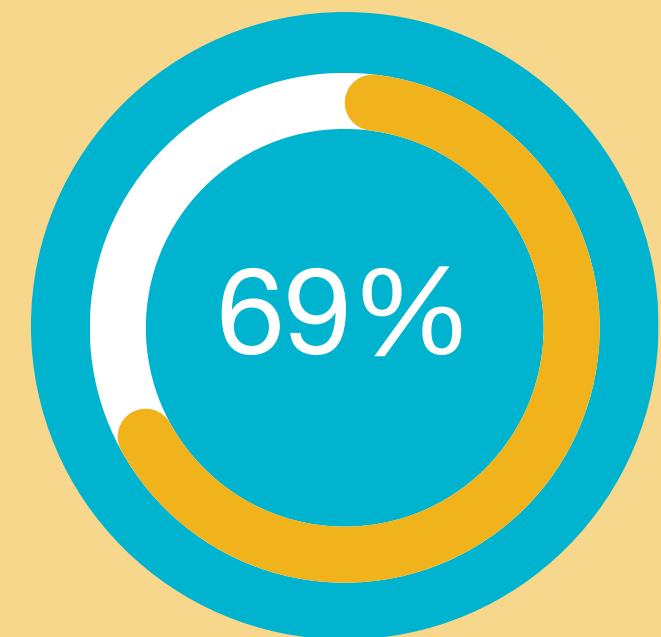
Source: AAP, 2024

Some Doctors Aren't Talking to Their Patients About MenB Vaccination

According to a [study](#) published in *Pediatrics*, among 900 doctors surveyed:



49% of **pediatricians** did not discuss the MenB vaccine during routine visits for 16-18-year-olds.

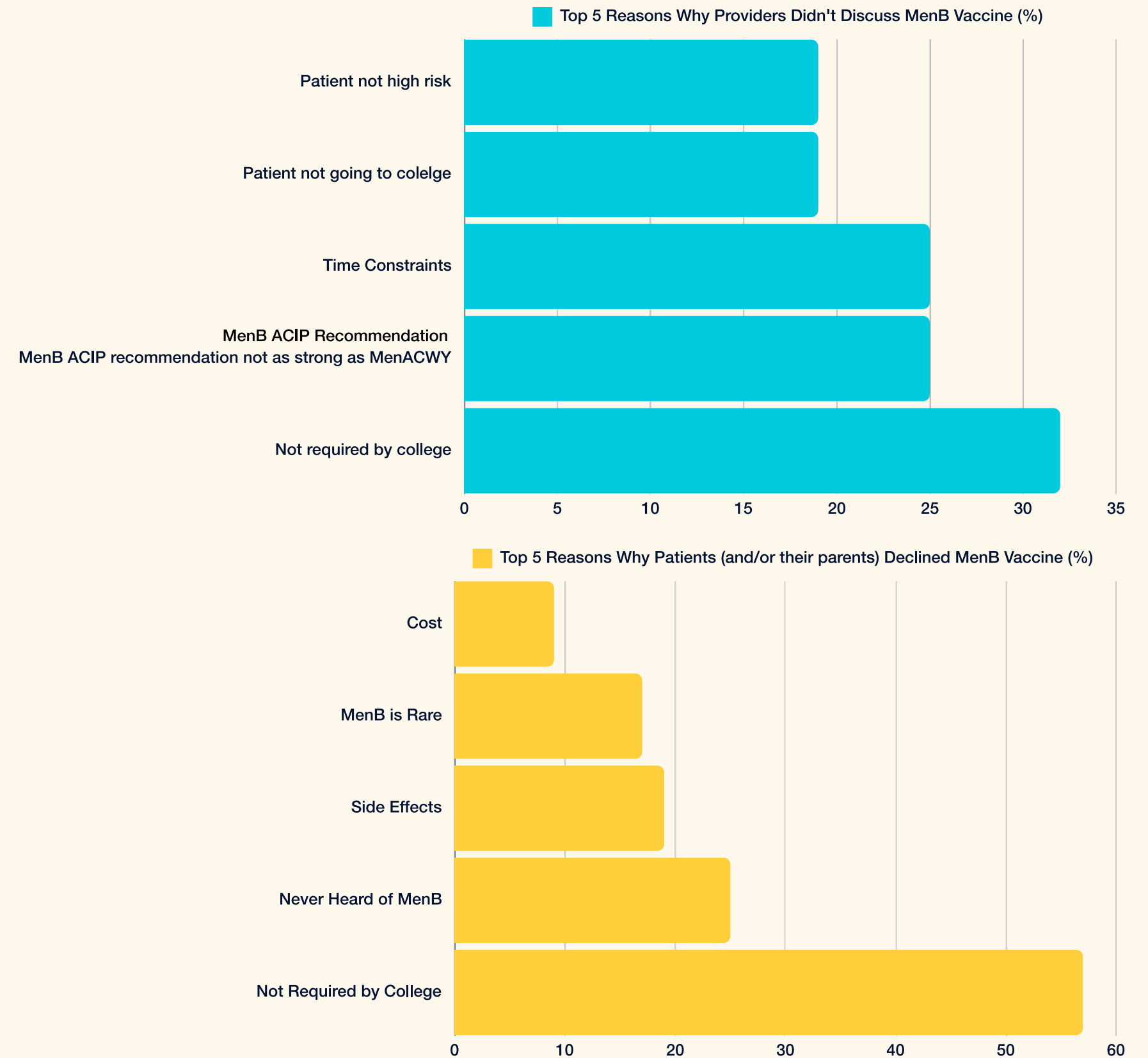


69% of **family physicians** did not discuss the MenB vaccine during routine visits for 16-18-year-olds.

Few Schools Require the MenB Vaccine.

A recent [study](#) found a lack of requirements was the most frequent reason why:

- Healthcare providers did not discuss the MenB vaccine with their 16-23-year-old patients
- Parents declined the MenB vaccine



According to The Meningitis B Action Project 2020 Provider Survey conducted amongst 524 health care providers.



100% of college outbreaks since 2011 are caused by MenB, yet only **40+** colleges currently require MenB vaccination.
No high schools require it.

Key

- (Pink B) schools requiring MenB vaccination
- (RED !) schools with past MenB case(s)
- (BLUE DOT) schools recommending MenB vaccination

COLLEGES & UNIVERSITIES CURRENTLY REQUIRING MENB VACCINATION	
<u>California</u> California Polytechnic State University San Diego State University University of San Diego	<u>Michigan</u> Aquinas College Calvin University Oakland University
<u>Delaware</u> Delaware State University	<u>New Hampshire</u> New England College Rivier University
<u>Florida</u> Florida Agricultural And Mechanical University	<u>New York</u> Canisius College D'Youville College Daemen College Le Moyne College SUNY Empire State College
<u>Georgia</u> Morehouse College	<u>Ohio</u> University of Rio Grande
<u>Iowa</u> Grinnell College Morningside College St. Ambrose University	<u>Pennsylvania</u> Bucknell University Cabrin University California University of Pennsylvania Gettysburg College Lafayette College Lehigh University Pennsylvania College of Technology Villanova University
<u>Idaho</u> The College of Idaho	<u>South Carolina</u> Dakota Wesleyan University South Carolina State University
<u>Indiana</u> Ball State University Butler University Earlham College Indiana State University Marian University Indianapolis Purdue University Purdue University, Northwest University of Evansville Rose-Hulman Institute of Technology St. Mary of the Woods College Valparaiso University	<u>Virginia</u> Shenandoah University

Examples from Maine

Inconsistent meningitis
vaccination language
across college campuses



No mention of any meningococcal vaccines on website or on immunization form.



No mention of any meningococcal vaccines on website or on immunization form.



REQUIRED FOR ALL INCOMING UNE STUDENTS LIVING IN RESIDENTIAL HOUSING

Meningococcal

Meningococcal ACWY immunization on or after the 16th birthday and/or within 5 years of matriculation is a requirement for all students living in residential housing or other UNE approved congregate living situations on any UNE campus, including Portland, Biddeford, and Morocco. Please contact the Student Health Center on the Biddeford or Portland Campus for information on how to become immunized against meningococcal meningitis/sepsis.

MenACWY required for residential students; no mention of MenB.

Bates College recommends these vaccines for protection from vaccine-preventable diseases and outbreaks.

- Meningococcal Vaccine (MenACWY, MenB)

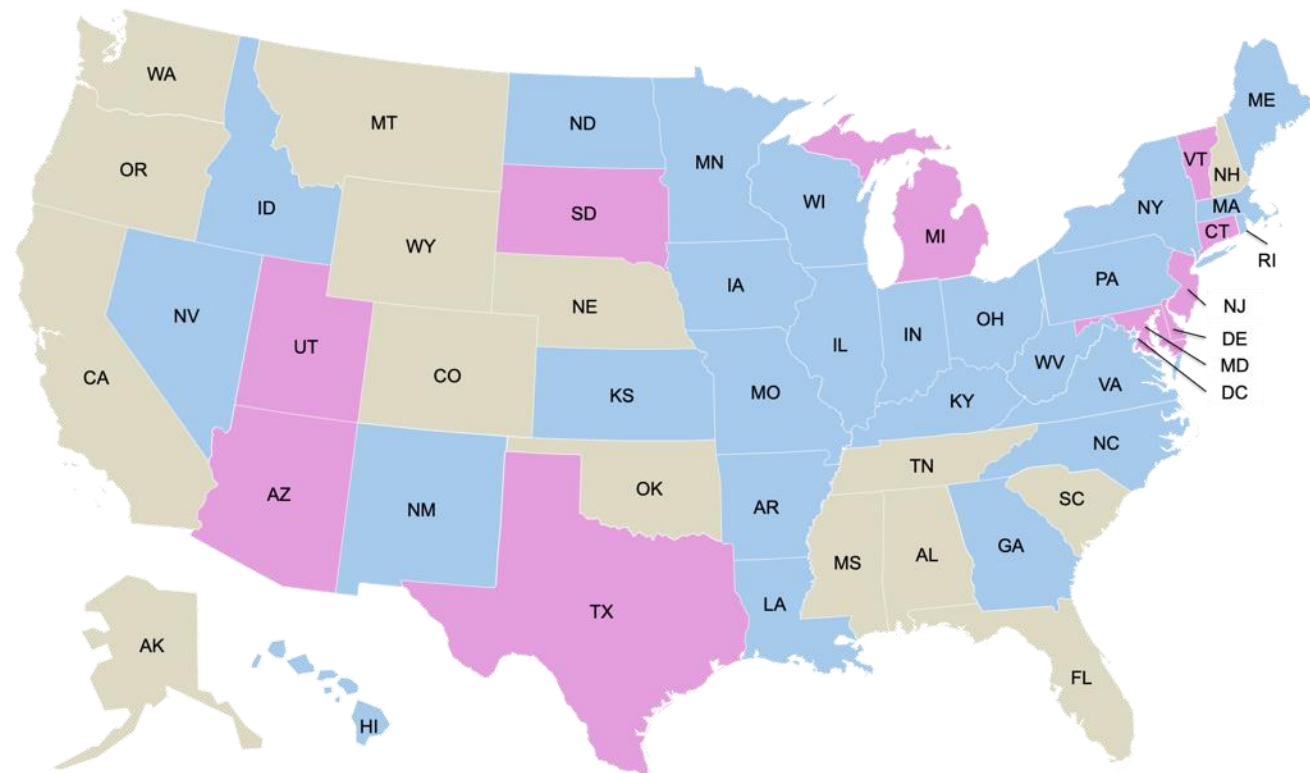
Both types of meningitis vaccines mentioned on website; but form can use improvement.



Meningococcal vaccine _____
Polysaccharide meningococcal vaccine or Menactra? Please circle date / MD Signature

Situation is better for the MenACWY vaccine, but not great.

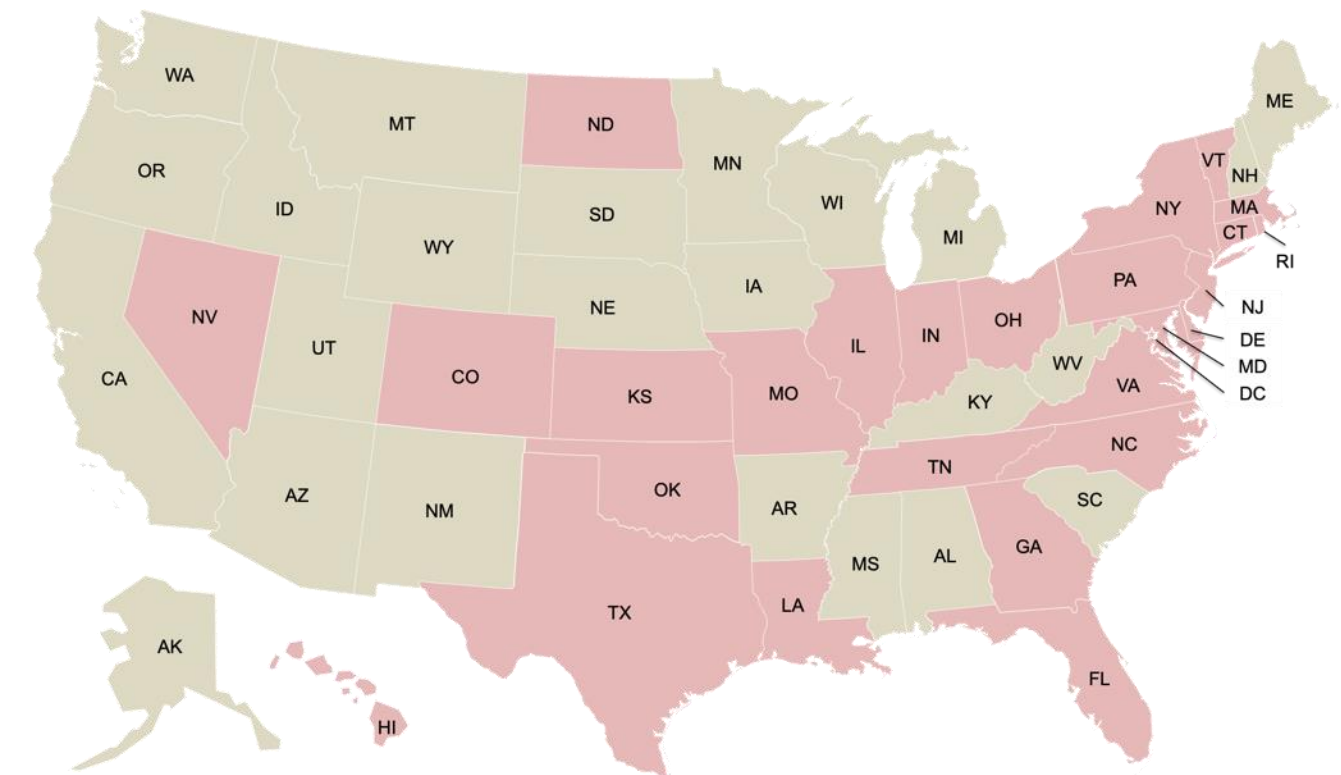
MenACWY School Entry Requirements by State – Secondary Schools



Type of Requirement

- 1 dose routinely required before age 16; 1 dose also required at age 16 or older
- 1 dose routinely required before age 16; no additional requirement for a dose at age 16 or older
- No requirement

MenACWY School Entry Requirements by State – Colleges & Universities



Type of Requirement

- Vaccine (or waiver) required
■ No requirement

In the U.S., we are currently seeing an **increase** in meningococcal meningitis mainly attributable to **Serogroup Y**

- In 2023, we saw **the highest number of cases** (n=438) since 2013.
- Cases caused by this strain are disproportionately occurring in **people ages 30–60 years** (65%) and people with HIV (15%).
- Additionally, certain ciprofloxacin-resistant serogroup Y strains that are circulating in the United States are **disproportionately affecting Hispanic individuals.**

Access to meningitis vaccination varies by income, race and location.

Key Statistics from a 2023 Systematic Review



Adolescents living in neighborhoods with a median income > \$100,000 were more likely to receive the MenB vaccine compared to those in neighborhoods with a median income < \$20,000.



Hispanic parents were less likely to be aware of meningococcal vaccines compared to non-Hispanic White parents (OR = 0.50; 95% CI, 0.28–0.89).



Rural counties and those with fewer healthcare providers had significantly lower stocking rates of MenB vaccines compared to MenACWY.

Complexity in Implementing Pentavalent Meningococcal Vaccination in Clinical Practice

Healthcare providers will need to stock three different vaccines if they want to use the new pentavalent meningitis vaccine.

1. Meningococcal conjugate or MenACWY vaccines
Menveo® and MenQuadfi®
2. Serogroup B meningococcal or MenB vaccines
Bexsero® and Trumenba®
3. Pentavalent meningococcal or MenABCWY vaccine
Penbraya™



Potential Changes to the Meningitis Vaccination Schedule

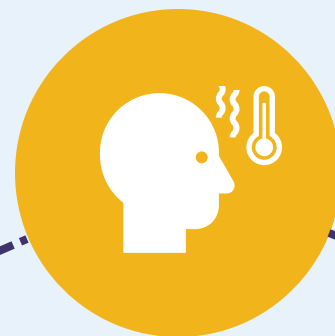
Options being reviewed by the CDC/ACIP

Options	ACWY Dose 1	ACWY Dose 2	B Dose 1	B Dose 2
Current	11-12 yrs	16 yrs	16-23 (preferably 16-18) SCDM	
1	11-12 yrs	16 yrs	16 yrs	17-18 yrs
2	11-12 yrs	16 yrs	16 risk-based	17-18 yrs risk-based
3	No Dose	16 yrs	16 risk-based	17-18 yrs risk-based
4	15 yrs	17-18 yrs	17-18 yrs	17-18 yrs
5 (ACIP)	No Dose	16 yrs	16 yrs	17-18 yrs

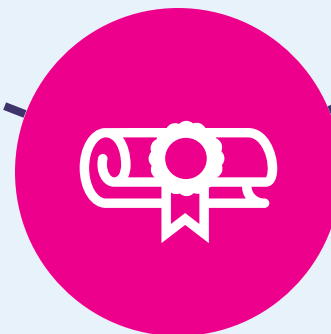
Proposed recommendations are for routine vaccination unless specified as “risk-based”; option numbers do not represent ordering of preference SCDM, shared clinical decision-making
Source: [CDC, 2024](#)

The Reality of Meningococcal Meningitis in the U.S.

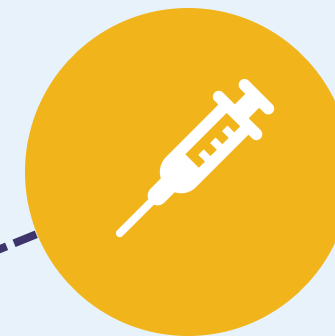
80% of parents didn't know about the MenB vaccine.¹



100% of college outbreaks since 2011 are caused by meningitis serogroup B.³



70% of all meningococcal cases in the U.S. are among 16-23-year-olds are MenB.²



College students are **5x more likely** to contract MenB as compared to non-college students, yet few colleges require the MenB vaccine.⁵



Only **3 of 10** 17-year-olds have received their first dose of the MenB vaccine.⁴

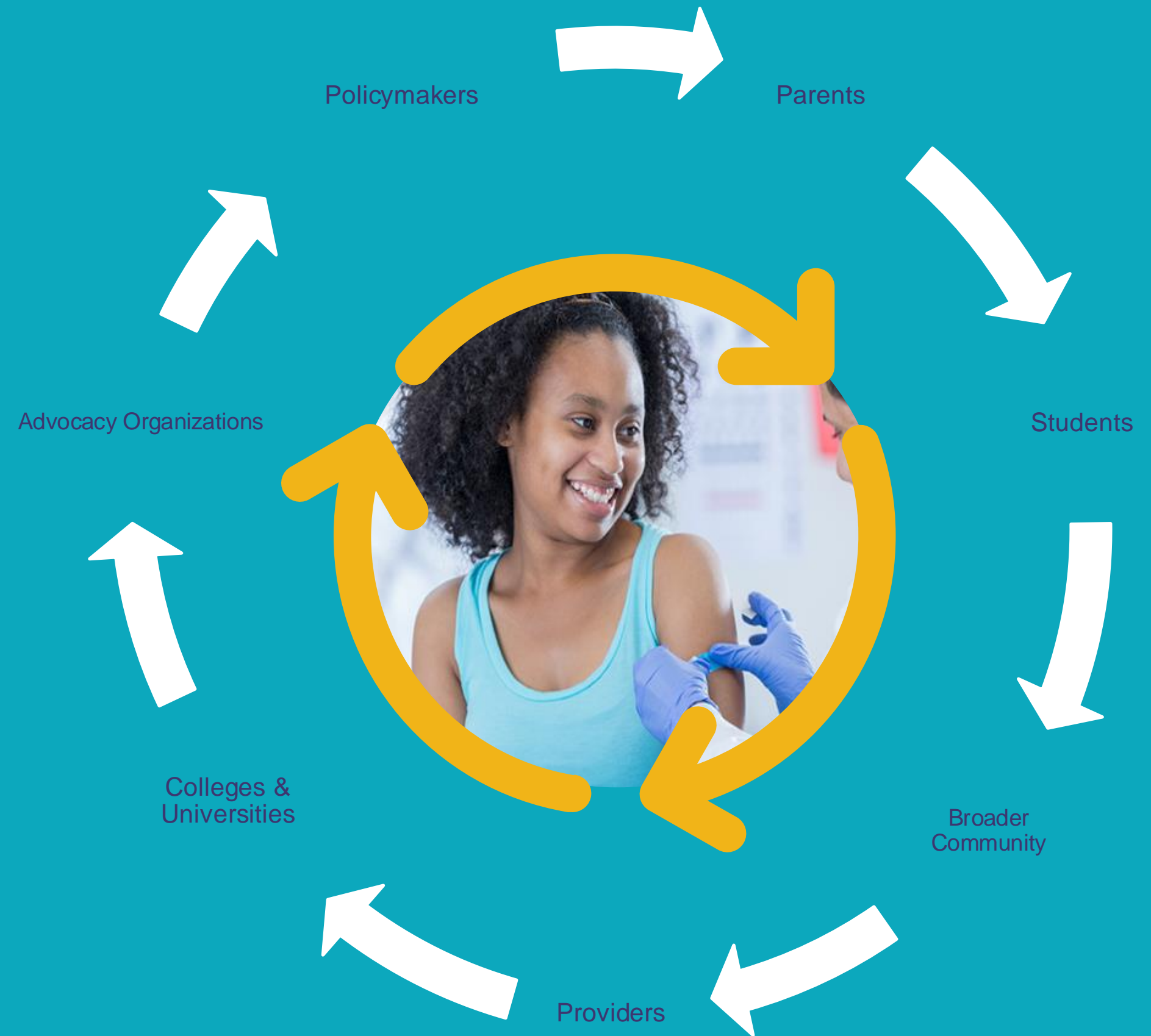
Only **6 out of 10** 17-year-olds have received at least two doses of the MenACWY vaccine.

Source:

1. Basta NE, Becker AB, Li Q, Nederhoff D. Parental awareness of Meningococcal B vaccines and willingness to vaccinate their teens, 2019
2. Centers for Disease Control and Prevention. Enhanced meningococcal disease surveillance report, 2016. Available at: <https://www.cdc.gov/meningococcal/downloads/NCIRD-EMS-Report.pdf>. Accessed September 19, 2019.
3. Biswas HH, Han GS, Wendorf K, et al. Notes from the Field: Outbreak of Serogroup B Meningococcal Disease at a University — California, 2016. MMWR Morb Mortal Wkly Rep 2016;65:520–521. DOI: <http://dx.doi.org/10.15585/mmwr.mm6520a3>
4. Pingali C, Yankey D, Elam-Evans LD, et al. National Vaccination Coverage Among Adolescents Aged 13–17 Years — National Immunization Survey-Teen, United States, 2021.
5. Gary S Marshall Gary S, Amanda F Dempsey, Amit Srivastava, Raul E Isturiz, US College Students Are at Increased Risk for Serogroup B Meningococcal Disease, Journal of the Pediatric Infectious Diseases Society.

Our Goal: Educate and Mobilize All Stakeholders

Moving from knowledge to
action takes a village



How We Can Help

Resources to Support Awareness & Education Efforts

In English and Spanish!

Educational resources for:

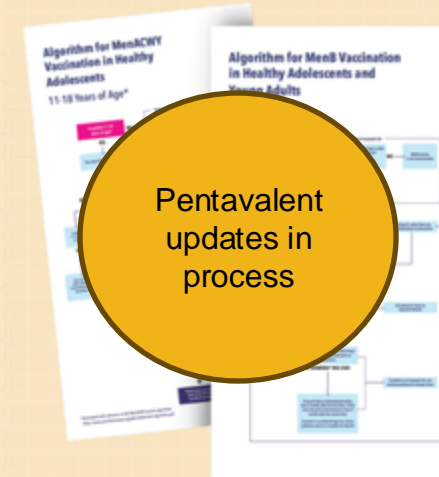
- Healthcare Providers
- Students
- Parents

Local meetings, speaking engagements, webinars etc. We are eager to share our stories to help you spread this important message.



Available for download and order on meningitisprevention.org

Brochures

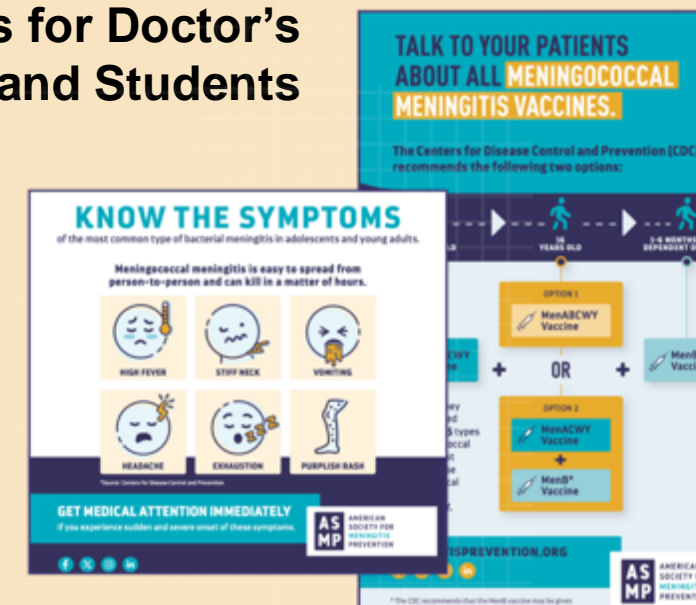


Algorithm for HCPs

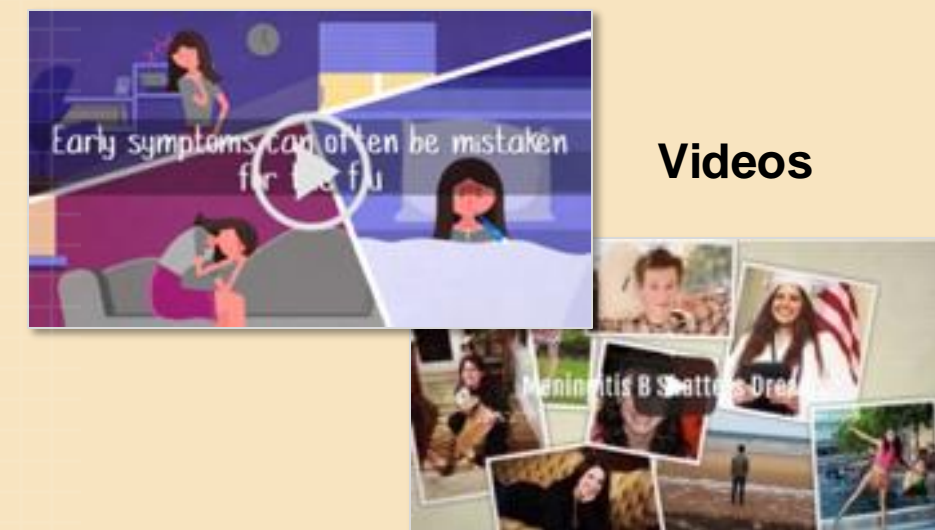
Posters



Magnets for Doctor's Offices and Students



Videos



How Can You Help?

Health care providers are critical to preventing meningococcal meningitis.

- ✓ Talk to your patients about all meningococcal meningitis vaccines
- ✓ Distribute our educational materials at your clinic, hospital or office
- ✓ Invite us to speak at local events
- ✓ Follow us on Facebook, LinkedIn, X and Instagram



Key Takeaway

Help protect your patients from meningococcal meningitis by making sure that young adults and adolescents are vaccinated against ALL 5 types of meningococcal bacteria most likely to cause meningococcal meningitis: A–B–C–W–Y.

We are here to help you!

Questions?

Contact for speaking opportunities & materials:
info@meningitisprevention.org



Thank You!

