In October 2015 the ACIP (Advisory Committee on Immunization Practices) recommended meningococcal B (MenB) vaccine for patients at high risk for this disease and for outbreak control, but left it to providers' clinical discretion whether or not to advise it for others.

http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6441a3.htm.

These recommendations are challenging to implement because they require providers to consider the relevant evidence about the vaccines' safety, efficacy and duration of protection, the risk of meningococcal B disease for a specific patient, and then formulate their advice and communicate it to parents and patients. Some members of the Vaccine Advisory Committee believe providers may have an ethical obligation to inform parents and patients of the availability of MenB vaccine, even if they would advise limiting its use to those at high risk of meningococcal B disease.

The Washington State Vaccine Advisory Committee is providing this guidance to:
1. Give providers current information on the incidence of meningococcal B disease in WA State.
2. Assist providers to formulate their own advice for communication with parents and patients about use of MenB vaccine in those who are not at high risk for the disease.

Considerations for Administering Meningococcal B Vaccine

Incidence of Meningococcal B Disease:

<table>
<thead>
<tr>
<th>Serogroup B cases by age group among all reported meningococcal cases, Washington State, 2008-2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age Group (Years)</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>n (%)</td>
</tr>
<tr>
<td>Cases with an isolate available for testing*</td>
</tr>
<tr>
<td>Cases due to Serogroup B</td>
</tr>
<tr>
<td>Cases due to other serogroups</td>
</tr>
<tr>
<td>Cases with non-groupable isolates</td>
</tr>
</tbody>
</table>

*Isolates were not available for 12 of the 206 cases that occurred during this time frame

**Vaccination with meningococcal B – Group B vaccine is routinely recommended to prevent cases occurring in the 16 to 23 year old age group.

The meningococcal B disease burden of illness in adolescents and young adults is low in the US. It is hard to predict who will get the disease. In the U.S., there are about 35–55 cases and 1-5 deaths each year in the 11 to 24-year-old age group who are eligible to receive the vaccine. The majority (>80%) of these cases occur in older adolescents and young adults aged 16–23 years. During 2014-2016, there were an estimated 60 meningitis B cases among college students in the US, including 7 deaths. Of these cases, 32% were related to serogroup B meningococcal disease outbreaks on college campuses, including two deaths. The estimated incidence of serogroup B meningococcal disease in college students aged 18–24 years (0.17 per 100,000) was higher than the incidence in all persons aged 18–24 years (0.09 per 100,000) and non-college students aged 18–24 years (0.05 per 100,000).
In Washington State, among 11 to 24 year olds, approximately 2 to 3 cases of meningococcal B disease are detected each year. Of these, approximately 1 case occurs in the 16-23-year-old age group, the age recommended for vaccine administration (see box above).

**Effectiveness:**
The vaccine induces an immune response against most, but not all, circulating B strains. No studies have been performed to evaluate the clinical effectiveness of the vaccine.

**Duration of Immunity:**
Duration of immunity is unknown. The vaccine provides short term protection against meningococcal B disease.

**Safety:**
There is limited experience with MenB vaccines outside of clinical trials. Theoretical safety concerns include the possible development of an autoimmune response. Post-licensure safety surveillance will be important in determining the safety profile for less frequent adverse events. Other vaccine reactions may include syncope, local inflammation at site of injection, fatigue, headaches, and anaphylaxis.

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**ACIP Recommendations for MenB Vaccine:**
The ACIP agreed that historically low levels of disease, limited data about the lasting effectiveness of the vaccine, and potentially high costs don’t warrant routinely vaccinating all children with MenB vaccine.

The vaccine should be administered to:
- Persons ≥10 years of age who are at increased risk for meningococcal B disease and its complications, including:
  - Persons with persistent complement component deficiencies (including eculizumab use).
  - Persons with anatomic or functional asplenia, including sickle cell disease.
  - Persons identified as at increased risk because of a serogroup B meningococcal disease outbreak.
- Patients 16 through 23 years of age may be vaccinated with MenB vaccine (preferably at 16 through 18 years of age) to provide short-term protection against most strains of serogroup B meningococcal disease.
- Adolescents not at increased risk for meningococcal B infection, but who want the vaccine. Providers may use clinical discretion to give the vaccine.

**Suggestions for Talking Points with Parents for Patients Not at Increased Risk for Meningococcal B Infection:**
- MenB vaccine is recommended for those at high risk for meningococcal B disease.
  - Persons ≥10 years of age who are at increased risk for meningococcal B disease and its complications, including:
    - Persons with persistent complement component deficiencies (including eculizumab use).
    - Persons with anatomic or functional asplenia, including sickle cell disease.
    - Persons identified as at increased risk because of a serogroup B meningococcal disease outbreak.
  - Your child is not at high risk.
- The federal Advisory Committee on Immunization Practices agreed that historically low levels of disease, limited data about the lasting effectiveness of the vaccine, and potentially high costs don’t warrant routinely vaccinating all children with MenB vaccine. However, I wanted to provide you with this information because I can give your child the vaccine if you want them to receive it.
Meningococcal Vaccine Types:
The table below provides a summary of the two licensed meningococcal B vaccines.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Bexsero</th>
<th>Trumenba</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>GlaxoSmithKline Pharmaceuticals (GSK)</td>
<td>Wyeth (Pfizer) Pharmaceuticals</td>
</tr>
<tr>
<td>Licensure</td>
<td>10 through 25 years</td>
<td>10 through 25 years</td>
</tr>
<tr>
<td>Schedule</td>
<td>Two doses, at least one month apart (0 &amp; &gt;1 month schedule)</td>
<td>Two doses (0 &amp; 6 months) High risk: Three doses (0, 1-2, and 6 month schedule)</td>
</tr>
<tr>
<td>Interchangeability</td>
<td>Must complete series with same product</td>
<td>Must complete series with same product</td>
</tr>
<tr>
<td>CPT / CVX Codes</td>
<td>90620 / 163</td>
<td>90621 / 162</td>
</tr>
</tbody>
</table>

https://www.cdc.gov/mmwr/volumes/66/wr/pdfs/mm6619a6.pdf

Nothing in this guidance supersedes the recommendations of the ACIP. Providers should review the complete ACIP recommendations for use of meningococcal vaccines for additional details regarding available vaccine products, indications, and precautions or contraindications.

Ordering from the State Department of Health
Providers enrolled in the Washington State Childhood Vaccine Program (CVP) may order MenB vaccine directly from the state as needed. Providers should order sufficient vaccine to complete the series for the patient with the same product.

Contact information for state staff to assist with order placement:
- Phone: 360-236-2VAX (2829) ask to speak with someone about ordering MenB vaccine.
- E-mail: WACHildhoodVaccines@doh.wa.gov

For more information:
Meningococcal Vaccination:
http://www.cdc.gov/vaccines/hcp/vis/vis-statements/mening-serogroup.html

Prevention and Control of Meningococcal Disease:
http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6202a1.htm#Box1

ACIP MenB Vaccine Recommendation:
http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6441a3.htm