### Summary of Maternal Immunization Recommendations

**Vaccines help keep your pregnant patients and their growing families healthy.**

Last Updated December 2018

<table>
<thead>
<tr>
<th>Vaccine*</th>
<th>Indicated During Every Pregnancy</th>
<th>May Be Given During Pregnancy in Certain Populations</th>
<th>Contraindicated During Pregnancy</th>
<th>Can Be Initiated Postpartum or When Breastfeeding or Both</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inactivated influenza</td>
<td>X†,1,2</td>
<td></td>
<td></td>
<td>X‡</td>
</tr>
<tr>
<td>Tetanus toxoid, reduced diphtheria toxoid and acellular pertussis (Tdap)</td>
<td>X†,3,4</td>
<td></td>
<td></td>
<td>X‡</td>
</tr>
<tr>
<td>Pneumococcal vaccines</td>
<td>X§,5,6</td>
<td></td>
<td>X§,5,6</td>
<td></td>
</tr>
<tr>
<td>Meningococcal conjugate (MenACWY) and Meningococcal serogroup B</td>
<td>X†,7</td>
<td></td>
<td>X†,7</td>
<td></td>
</tr>
<tr>
<td>Hepatitis A</td>
<td>X§,8</td>
<td></td>
<td>X§,8</td>
<td></td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>X§,9,10</td>
<td></td>
<td>X§,9,10</td>
<td></td>
</tr>
<tr>
<td>Human papillomavirus (HPV)**</td>
<td>X**,11,12</td>
<td>X††,13,14</td>
<td>X††</td>
<td></td>
</tr>
<tr>
<td>Measles, mumps, and rubella</td>
<td>X††,13,15,16</td>
<td></td>
<td>X††</td>
<td></td>
</tr>
<tr>
<td>Varicella</td>
<td>X††,13,15,16</td>
<td></td>
<td>X††</td>
<td></td>
</tr>
</tbody>
</table>

*An “X” indicates that the vaccine can be given in this window. See the corresponding numbered footnote for details.

† Inactivated influenza vaccination can be given in any trimester and should be given with each influenza season as soon as the vaccine is available. The Tdap vaccine is given at 27–36 weeks of gestation in pregnancy, preferably as early in the 27–36-week window as possible. The Tdap vaccine should be given during each pregnancy in order to boost the maternal immune response and maximize the passive antibody transfer to the newborn. Women who did not receive Tdap during pregnancy (and have never received the Tdap vaccine) should be immunized once in the immediate postpartum period.†1–3

‡ Vaccination during every pregnancy is preferred over vaccination during the postpartum period to ensure antibody transfer to the newborn.†4

‡‡ Quadrivalent conjugate meningococcal vaccine is routinely recommended for adolescents aged 11–18 years, along with individuals with HIV infection, complement component deficiency (including eculizumab use), functional or anatomic asplenia (including sickle cell disease), exposure during a meningococcal disease outbreak, travel to endemic or hyperendemic areas, or work as a microbiologist routinely exposed to Neisseria meningitidis. If indicated, pregnancy should not preclude vaccination. The serogroup B vaccine should be deferred in pregnant women, unless the woman is at increased risk of serogroup B meningococcal disease†7 and, after consultation with her health care provider, the benefits of vaccination are considered to outweigh the potential risks.†7

# Pregnant women with any of the conditions that increase the risk of either acquiring or having a severe outcome from hepatitis B infection (eg, having chronic liver disease, clotting-factor disorders, traveling, using injection and noninjection drugs, and working with nonhuman primates) should be vaccinated during pregnancy if not previously vaccinated. Pregnant women at risk of hepatitis A infection during pregnancy should also be counseled concerning all options to prevent hepatitis A infection. Any woman who wants to be protected from hepatitis B or has an indication for use may receive the vaccine during pregnancy and the postpartum period.†8

** The HPV vaccination in pregnancy is not recommended, however, inadvertent HPV vaccination during pregnancy is not associated with adverse events for the woman or her fetus. The HPV vaccine can be given to postpartum and breastfeeding women. The HPV vaccine should be administered to women through age 26 years who were not previously vaccinated. Vaccination timing and number of doses should follow Centers for Disease Control and Prevention and American College of Obstetricians and Gynecologists’ guidance.†1,12

†† Live attenuated vaccines including, measles–mumps–rubella, varicella, and live-attenuated influenza vaccine are contraindicated for pregnant women. If indicated (ie, among seronegative women), the measles–mumps–rubella vaccine and the varicella vaccine should be given during the postpartum period. Inadvertent administration during pregnancy has not been associated with congenital rubella or congenital varicella syndromes.†9,16


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