Tetanus, Diphtheria, and Pertussis Vaccine Clinical Information

Always consult state specific charts or the Immunization Selection Tool to determine vaccine administration and dispensing policies.

ACIP Vaccination Recommendations
ACIP recommends a single dose of Tdap vaccine of any person seeking protection from tetanus, diphtheria, and acellular pertussis disease with the following indications:

- Adolescents 11-12 years of age
  - 1 dose of Tdap to all adolescents
- Children 7-10 years of age who are not fully vaccinated against pertussis
  - Defined as having received fewer than 4 doses of diphtheria, tetanus, & acellular pertussis vaccine (DTaP), or having received 4 doses of DTaP but the last dose was prior to age 4 years.
- Adolescents 11-18 years who have not received Tdap should receive a dose followed by Td booster doses every 10 years thereafter
- Adults with unknown or incomplete history of completing a 3 dose primary series with Td vaccine should begin or complete a primary series including a Tdap dose.
  - If unvaccinated, administer the first 2 doses at least 4 weeks apart and the third dose 6-12 months after the second
  - If incomplete series, administer the remaining doses
- Adults substitute 1 time dose of Tdap for Td booster, then boost with Td every 10 years
- Adults 65 years of age and older who have or anticipate having close contact with an infant less than 12 months of age
- Pregnancy
  - ACIP recommends that all pregnant women receive one dose of Tdap vaccine during each pregnancy regardless of interval since prior Td or Tdap vaccination. The optimal time for administration is between 27 and 36 weeks gestation although Tdap may be given at any time during the pregnancy.

Tetanus Wound Management

- For patients with unknown or fewer than 3 doses of tetanus toxoid-containing vaccine:
  - Clean, minor wounds the patient should receive
    - Tdap: if Not previously vaccinated with Tdap
    - Td: if previously vaccinated with Tdap
  - Wounds contaminated with dirt, feces, soil, saliva; puncture wounds; wounds from crushing, burns or frostbite
    - Patients will receive Tetanus Immune Globulin from their health care provider
    - Tdap: if Not previously vaccinated with Tdap
    - Td: if previously vaccinated with Tdap

- For patients with 3 or more doses of tetanus toxoid-containing vaccine:
  - Clean, minor wounds and it has been more than 10 years since last tetanus toxoid-containing vaccine the patient should receive:
    - Tdap: if Not previously vaccinated with Tdap
    - Td: if previously vaccinated with Tdap
  - Wounds contaminated with dirt, feces, soil, saliva; puncture wounds; wounds from crushing, burns or frostbite and has been more than five years since last tetanus toxoid-containing vaccine the patient should receive
    - Tdap: if Not previously vaccinated with Tdap
    - Td: if previously vaccinated with Tdap

The following information is to be used as a guide. For complete and up to date clinical information; refer to the most current CDC and ACIP Immunization Schedule.
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Tdap Vaccine Products Basics

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>FDA Approved Indication Age</th>
<th>Volume Dose</th>
<th>Route</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adacel</td>
<td>10-64 years</td>
<td>0.5 mL</td>
<td>IM</td>
<td>• Shake well before use</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Contents should be white and opaque</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• The tip caps of prefilled syringes may contain latex.</td>
</tr>
<tr>
<td>Boostrix</td>
<td>≥ 10 years</td>
<td>0.5 mL</td>
<td>IM</td>
<td>Store vaccine at refrigerator temperatures of 36° to 46° F (2°- 8° C). Do not freeze.</td>
</tr>
</tbody>
</table>

Contraindications

- Severe allergic reaction /anaphylaxis after a previous vaccine dose of any tetanus toxoid-, diphtheria toxoid-, or pertussis antigen-containing vaccine or to a vaccine component.
- Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) within 7 days of administration of a previous pertussis antigen-containing vaccine.

Precautions

- If Guillain-Barré syndrome occurred within 6 weeks of receipt of a prior vaccine containing tetanus toxoid, the risk of Guillain-Barré syndrome may be increased following a subsequent dose of tetanus toxoid-containing vaccine.
- Syncope (fainting) can occur in association with administration of injectable vaccines. Procedures should be in place to avoid falling injury and to restore cerebral perfusion following syncope.
- Progressive or unstable neurologic conditions are reasons to defer vaccination with a pertussis-containing vaccine.
- Persons who experienced an Arthus-type hypersensitivity reaction following a prior dose of tetanus toxoid-containing vaccine should not receive Tdap vaccine unless at least 10 years have elapsed since the last dose of a tetanus toxoid-containing vaccine.

Adverse Reactions

- Adacel: pain, swelling, erythema, headache, and body ache or muscle weakness
- Boostrix:
  - 10-18 years of age: increase in arm circumference of the injected arm,
  - 10-64 year old: pain, redness, swelling at the injection site, headache, fatigue, and gastrointestinal symptoms.
  - 65 years and older: pain at the injection site

Frequently Asked Questions

Q. Can a patient get the Tdap vaccine today if they receive Td recently?
A. Yes, this patient can get Tdap today. Tdap can be administered regardless of interval since the last tetanus or diphtheria toxoid containing vaccine. After receipt of Tdap, patients should continue to receive Td for routine booster immunization against tetanus and diphtheria every 10 years.

Q. Each time there is a pregnancy in the family, should the father, grandparents and other family members receive a Tdap booster with every pregnancy?
A. No, only one dose is appropriate. At this time, ACIP does not recommend additional doses of Tdap for fathers or other family members or caregivers. The multiple Tdap recommendation to optimize immunity for the infant applies only to the pregnant woman.

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