Should I give Tdap-IPV or DTaP-IPV-Hib to my school aged patient?

Antigen Levels

- Antigen levels vary significantly for diphtheria and pertussis depending on which vaccine is given.
- The amount of antigen in the vaccine affects the immune response.
- Younger children require vaccines containing higher antigen levels to ensure adequate protection.

<table>
<thead>
<tr>
<th>Antigen Active Ingredient</th>
<th>DTaP-IPV-Hib Pediacel</th>
<th>Tdap-IPV Adacel-polio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphtheria Toxoid</td>
<td>15 Lf <em>(limit of flocculation)</em></td>
<td>2 Lf</td>
</tr>
<tr>
<td>Acellular Pertussis Toxoid</td>
<td>20 ug</td>
<td>2.5 ug</td>
</tr>
</tbody>
</table>

Who gets what?

- For children starting and completing primary series before age 7:
  - Ensure the child has a minimum of 3 valid DTaP-IPV-Hib – this is the primary series
  - Give Tdap-IPV as a booster dose AFTER primary series is completed, AND if the client is at least 4 years of age
- For children starting immunization prior to age 7 but completing after age 7:
  - Give DTaP-IPV-Hib dose(s) as per recommended intervals, but once child reaches 7 years of age switch over to Tdap-IPV to complete their catch-up series
- For children starting immunization on or after age 7:
  - Use Tdap-IPV as catch-up

Please refer to the Publicly Funded Immunization Schedules for Ontario

In summary, children under age 7 need 3 larger antigen doses of diphtheria and pertussis. Please review their record before reaching for Tdap-IPV.

Durham Region Health Department: 905-668-7711, 1-800-841-2729

If you prefer to receive this information in an electronic format please submit your request to healthresources@durham.ca

If you require this information in an accessible format, contact 1-800-841-2729.