

**TABLE 2**

**2022 AAHA Core and Noncore Vaccines for Dogs\*\***

<b>CORE VACCINES:</b> Recommended for all dogs irrespective of lifestyle, unless there is a specific medical reason not to vaccinate.			
<b>ANTIGEN</b>	<b>INITIAL VACCINATION</b>		<b>REVACCINATION</b>
	<b>Dogs ≤16 Weeks of Age</b>	<b>Dogs &gt;16 Weeks of Age</b>	
<b>Distemper Adenovirus Parvovirus +/- Parainfluenza</b>	At least 3 doses of a combination vaccine between 6 and 16 weeks, 2-4 weeks apart.	2 doses of a combination vaccine, 2-4 weeks apart.	<ul style="list-style-type: none"> <li>• A single dose of a combination vaccine within 1 year following the last dose in the initial vaccination series.</li> <li>• Administer subsequent boosters at intervals of 3 years.</li> </ul>
<b>Leptospira</b> (killed) 4-serovar	Two doses, 2-4 weeks apart, starting at 12 weeks of age.	Two doses, 2-4 weeks apart, regardless of dog's age.	<ul style="list-style-type: none"> <li>• A single dose within 1 year following the last dose in the initial vaccination series.</li> <li>• Administer subsequent boosters annually.</li> </ul>
<b>Rabies</b>	As required by law.		

<b>NONCORE VACCINES:</b> Recommended for some dogs based on lifestyle, geographic location, and risk of exposure.			
<b>ANTIGEN</b>	<b>INITIAL VACCINATION</b>		<b>REVACCINATION</b>
	<b>Dogs ≤16 Weeks of Age</b>	<b>Dogs &gt;16 Weeks of Age</b>	
<b>Borrelia burgdorferi</b> (canine Lyme disease)	Two doses, 2-4 weeks apart.	Two doses, 2-4 weeks apart, regardless of dog's age.	<ul style="list-style-type: none"> <li>• A single dose within 1 year following the last dose in the initial vaccination series.</li> <li>• Administer subsequent boosters annually.</li> </ul>
<b>Bordetella bronchiseptica &amp; canine parainfluenza virus</b>	A single (IN) dose is indicated for dogs at risk of exposure.		<ul style="list-style-type: none"> <li>• Administer subsequent boosters annually.</li> </ul>
<b>Bordetella bronchiseptica only</b>	Parenteral (SQ): Two doses, 2-4 weeks apart. IN: Administer a single dose intranasally. Oral: Administer a single dose into the buccal pouch.		<ul style="list-style-type: none"> <li>• Administer subsequent boosters annually.</li> </ul>
<b>Canine influenza virus-H3N8/H3N2</b>	Two doses, 2-4 weeks apart.		<ul style="list-style-type: none"> <li>• A single dose within 1 year following the last dose in the initial vaccination series.</li> <li>• Administer subsequent boosters annually.</li> </ul>
<b>Crotalus atrox</b> (Western diamondback rattlesnake)	Dosing requirements and frequency of administration vary among dogs depending on body weight and exposure risk.		

<b>OVERDUE VACCINES AND UNKNOWN VACCINE HISTORY</b>	
<b>Core and Noncore Vaccines</b>	The benefits of vaccination far outweigh the risks in cases of dogs with unknown immune status or vaccination history. In cases of overdue vaccinations, consult specific vaccine manufacturers for instructions. A good rule of thumb is: When in doubt, vaccinate.
<b>Rabies</b>	Follow local laws and consult the state veterinarian as needed.

IN, intranasal; SQ, subcutaneous.

\*For dogs in shelter environments, see narrative for additional recommendations.

†Updated in 2024

**The 2022 AAHA Canine Vaccination Guidelines are available at [aaha.org/canine-vaccinations](http://aaha.org/canine-vaccinations).**

These guidelines were prepared by a Task Force of experts convened by the American Animal Hospital Association (AAHA) and were subjected to a formal peer-review process. This document is intended as a guideline only, not an AAHA standard of care. These guidelines and recommendations should not be construed as dictating an exclusive protocol, course of treatment, or procedure. Variations in practice may be warranted based on the needs of the individual patient, resources, and limitations unique to each individual practice setting. ©2022 AAHA.

