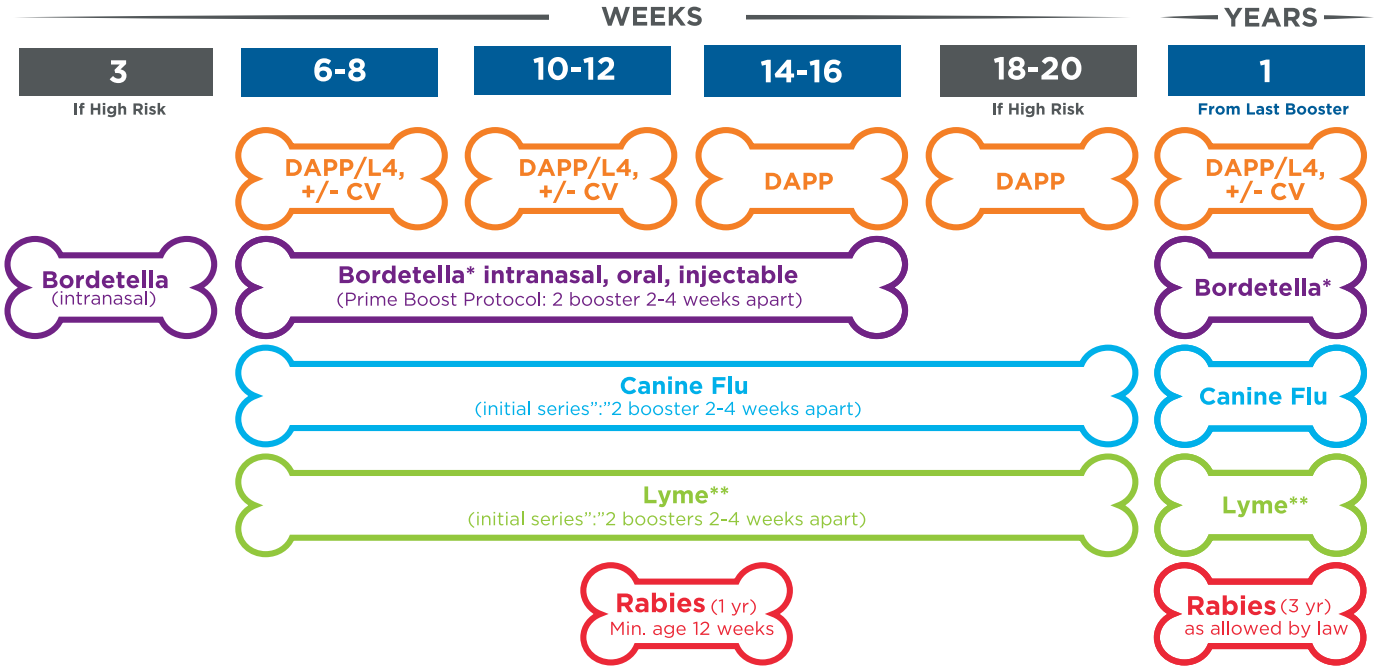
CANINE VACCINATION FOR DISEASE PREVENTION

VANGUARD®

PUPPY PROTECTION THROUGH YEAR 1



Newborn puppies ingest antibodies from their mother while nursing. These antibodies provide early protection from infection but gradually decrease over the first several months of life. A series of vaccine boosters are required to protect the puppy as the antibodies from the mother naturally wane. This increases the possibility of protection from vaccination as soon as maternal antibody levels fall below the protective level.

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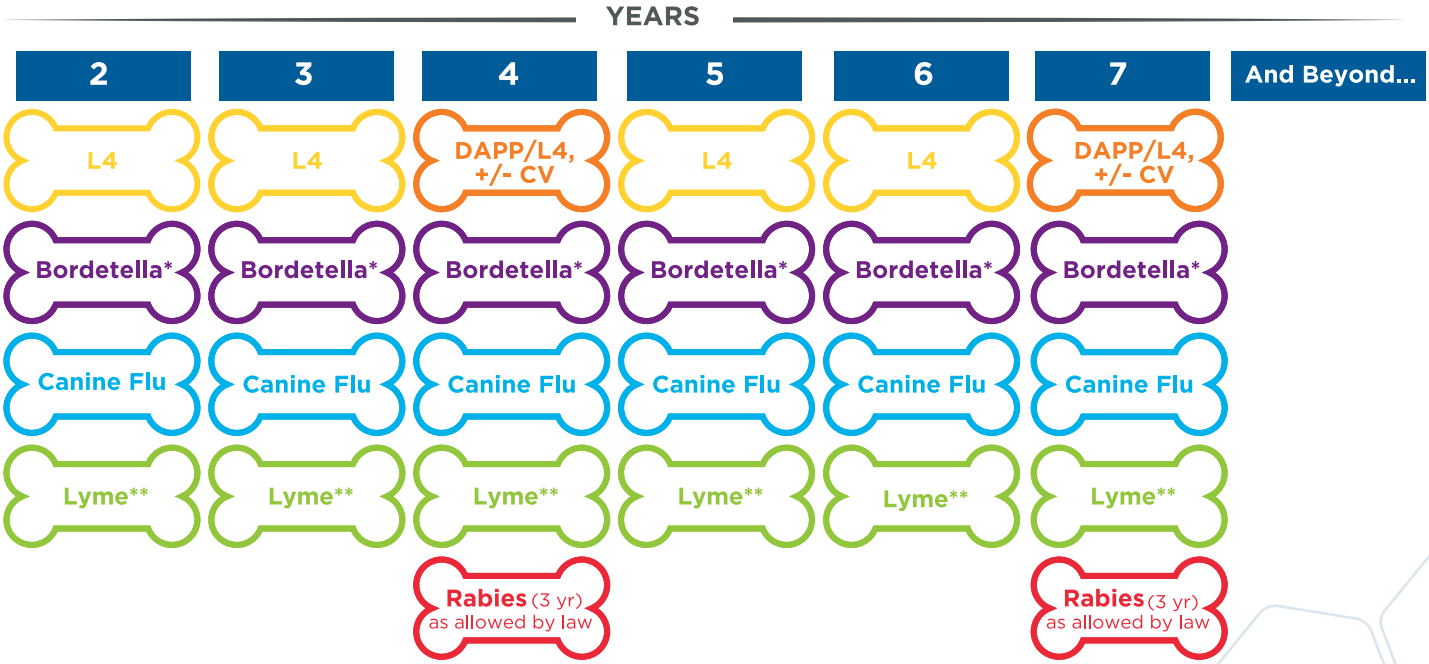

Respiratory infections in dogs may be from multiple organisms at the same time. This co-infection may increase the severity of illness or the likelihood of death. Not all infections are able to be prevented with vaccines. This is why vaccinating for the infections we can prevent becomes so important.

*May be combined with parainfluenza and canine adenovirus-2 depending on local risk factors.

**When living in, near, or traveling to a Lyme endemic region.

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ZOETIS PETCARE

SAB-00733

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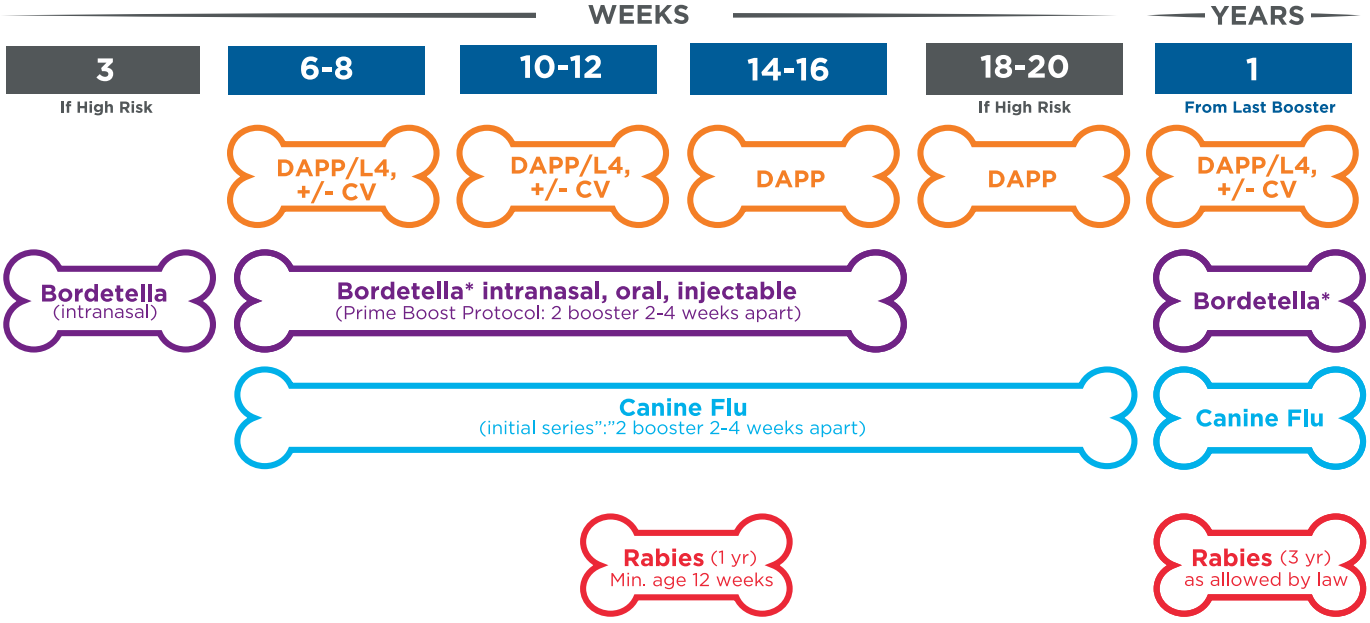

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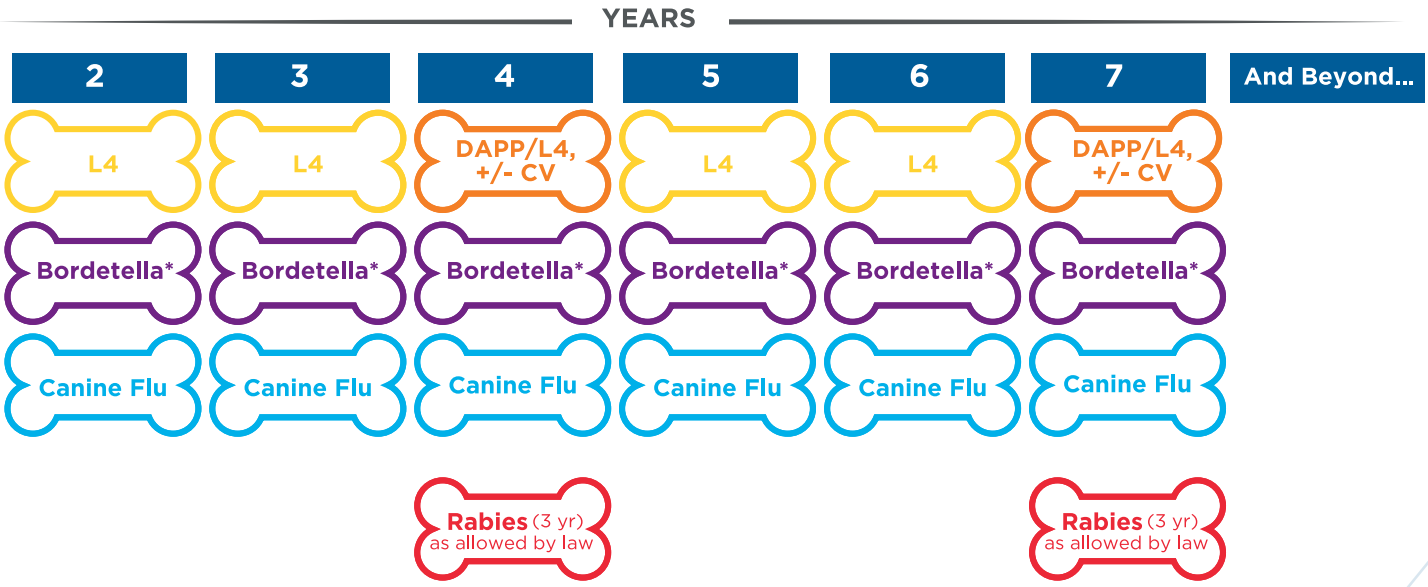

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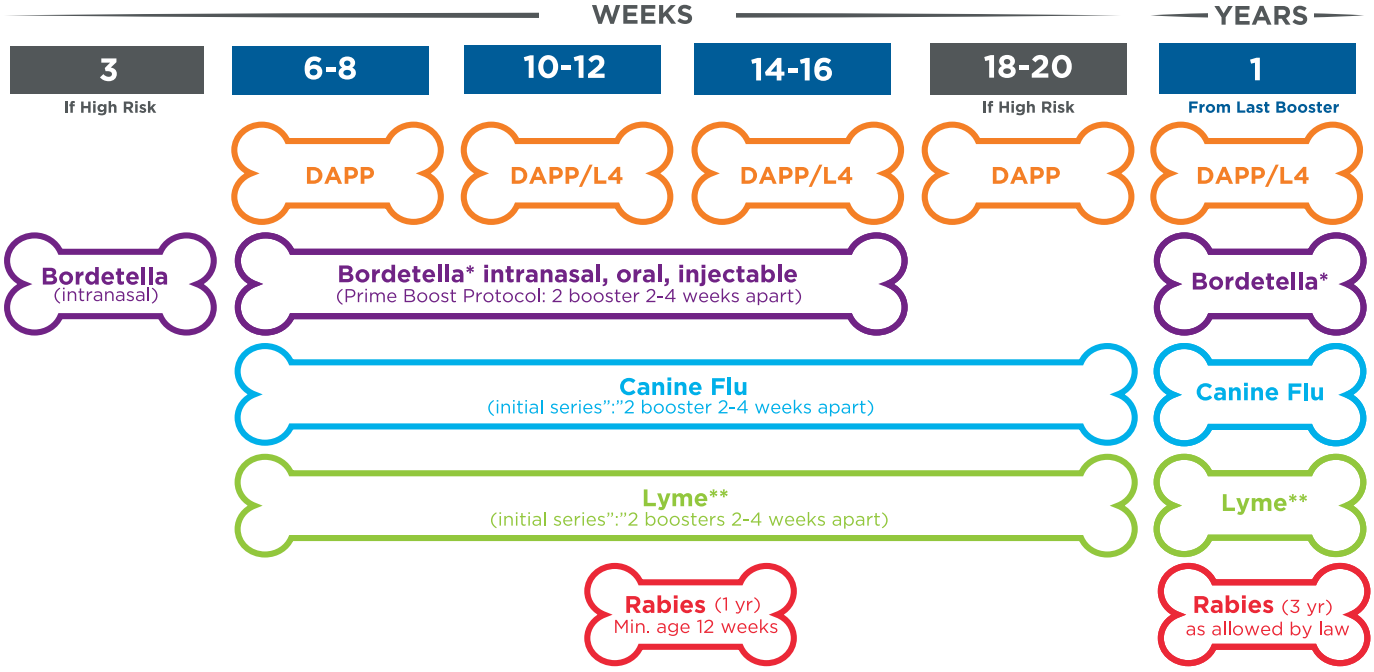

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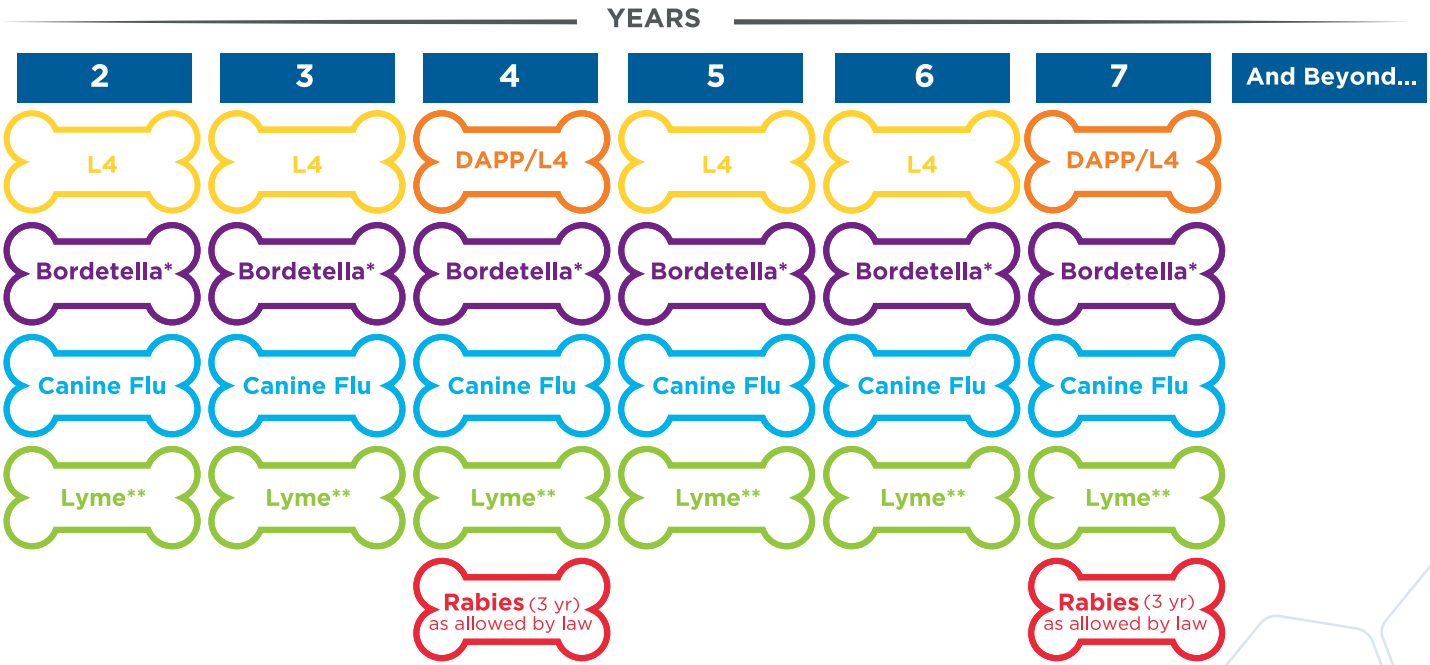

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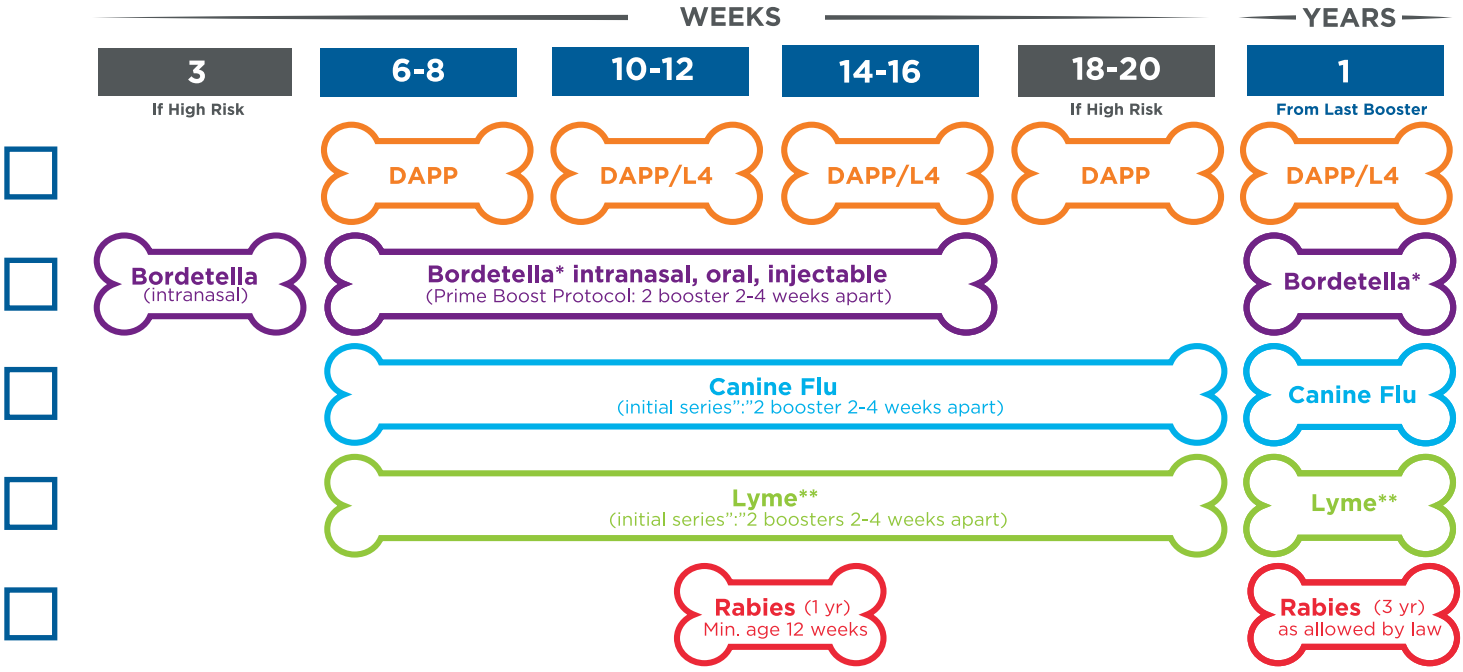

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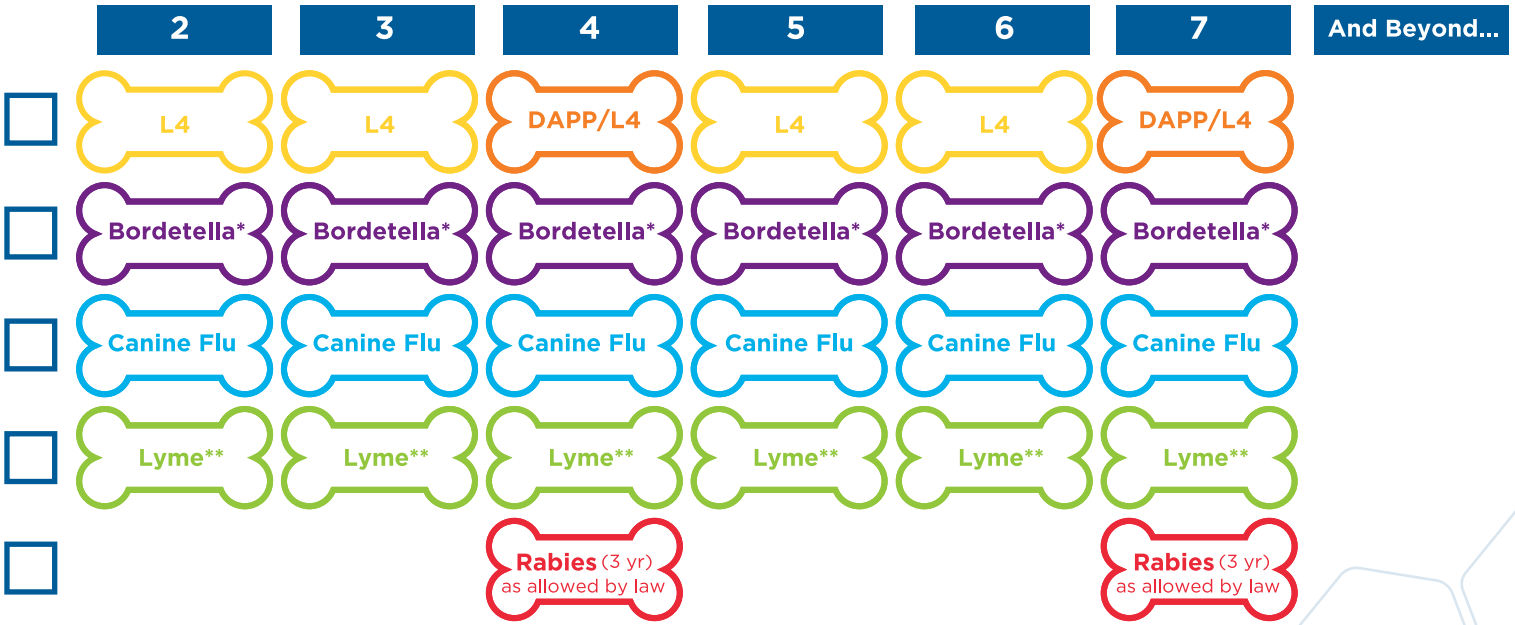

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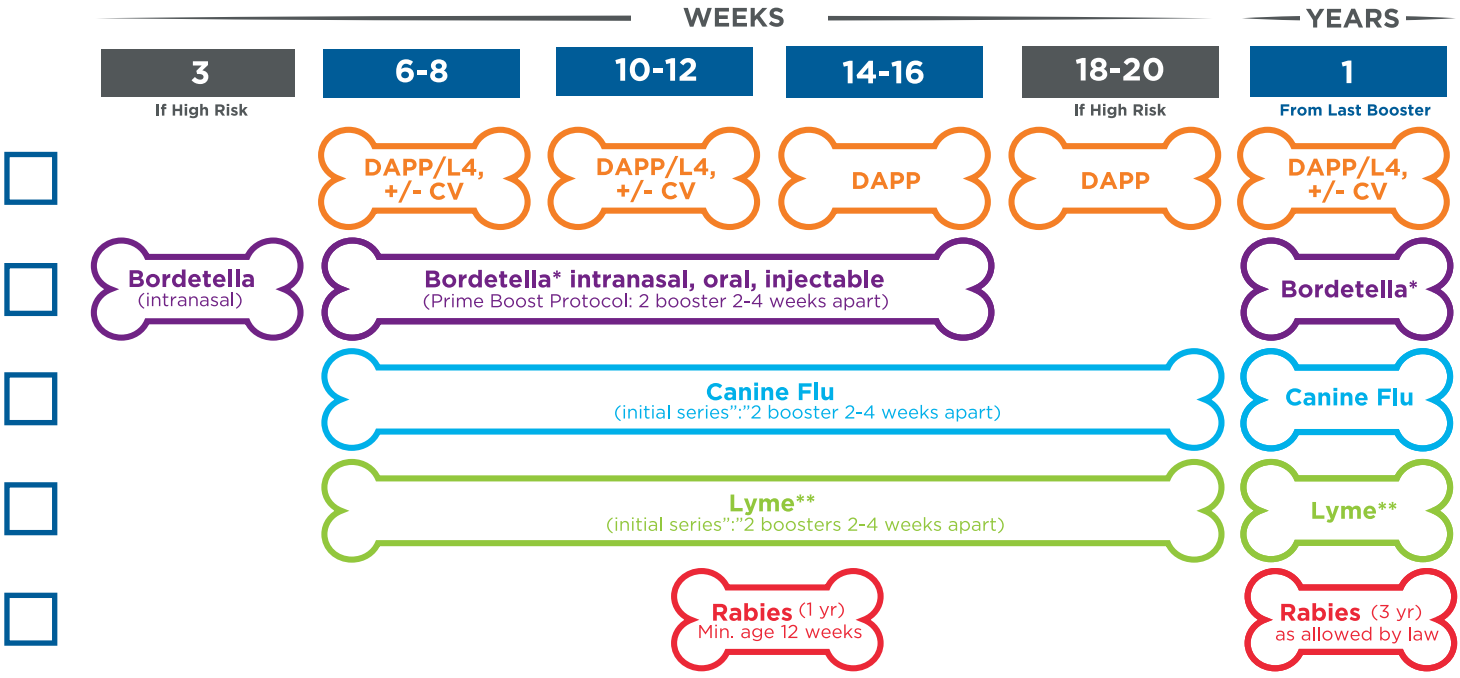

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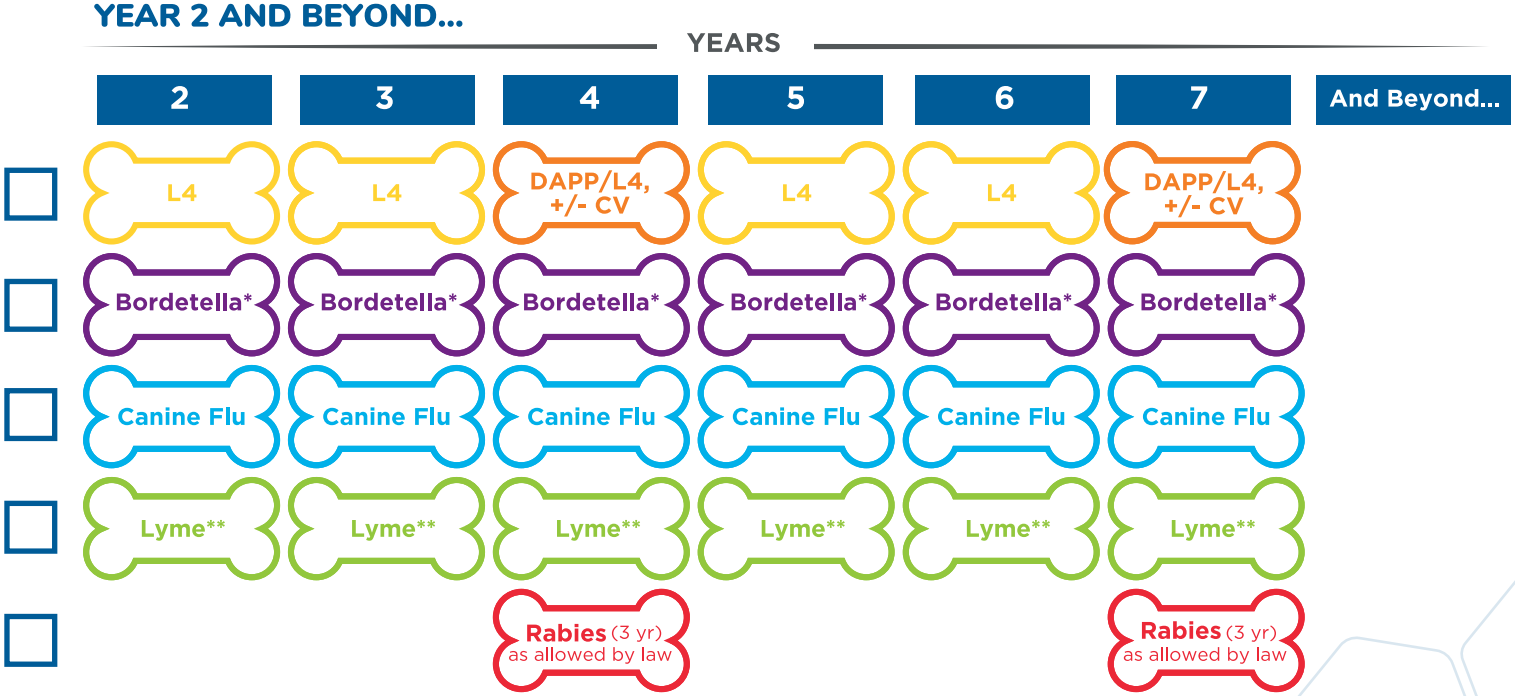

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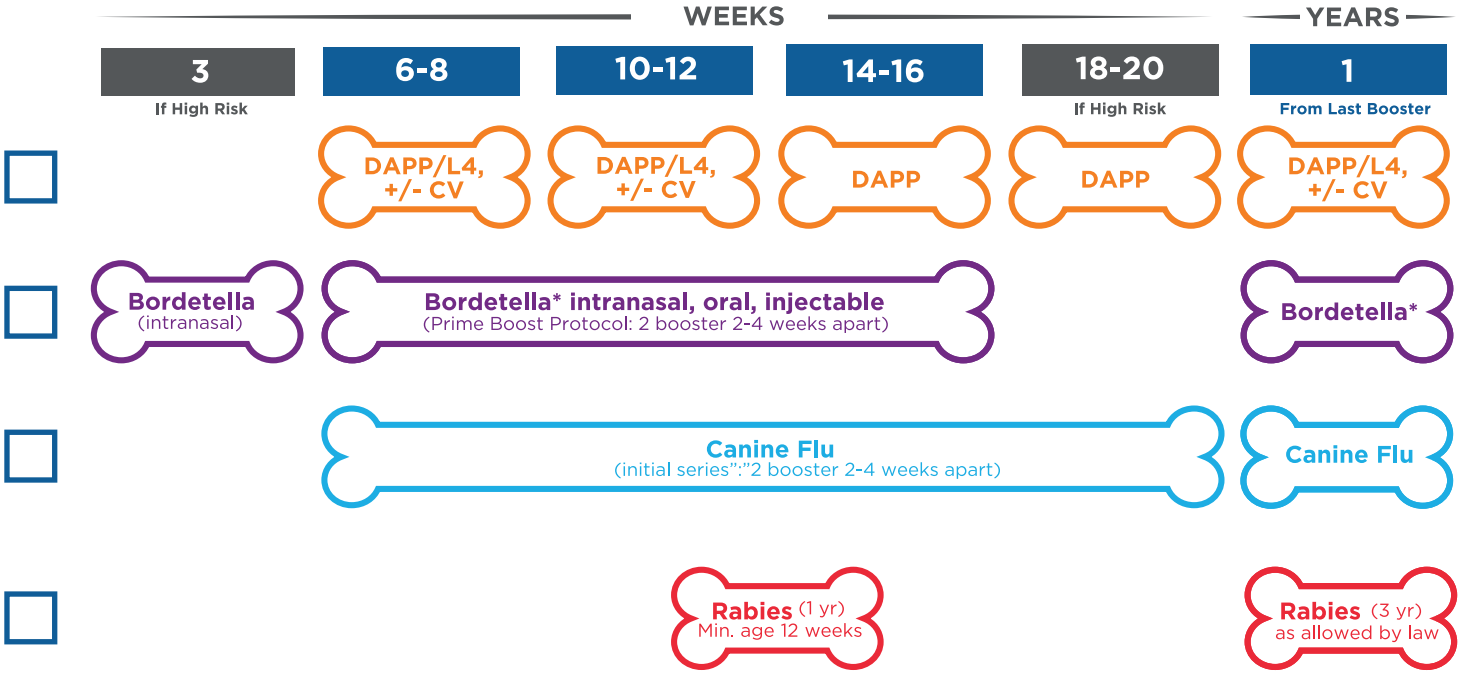

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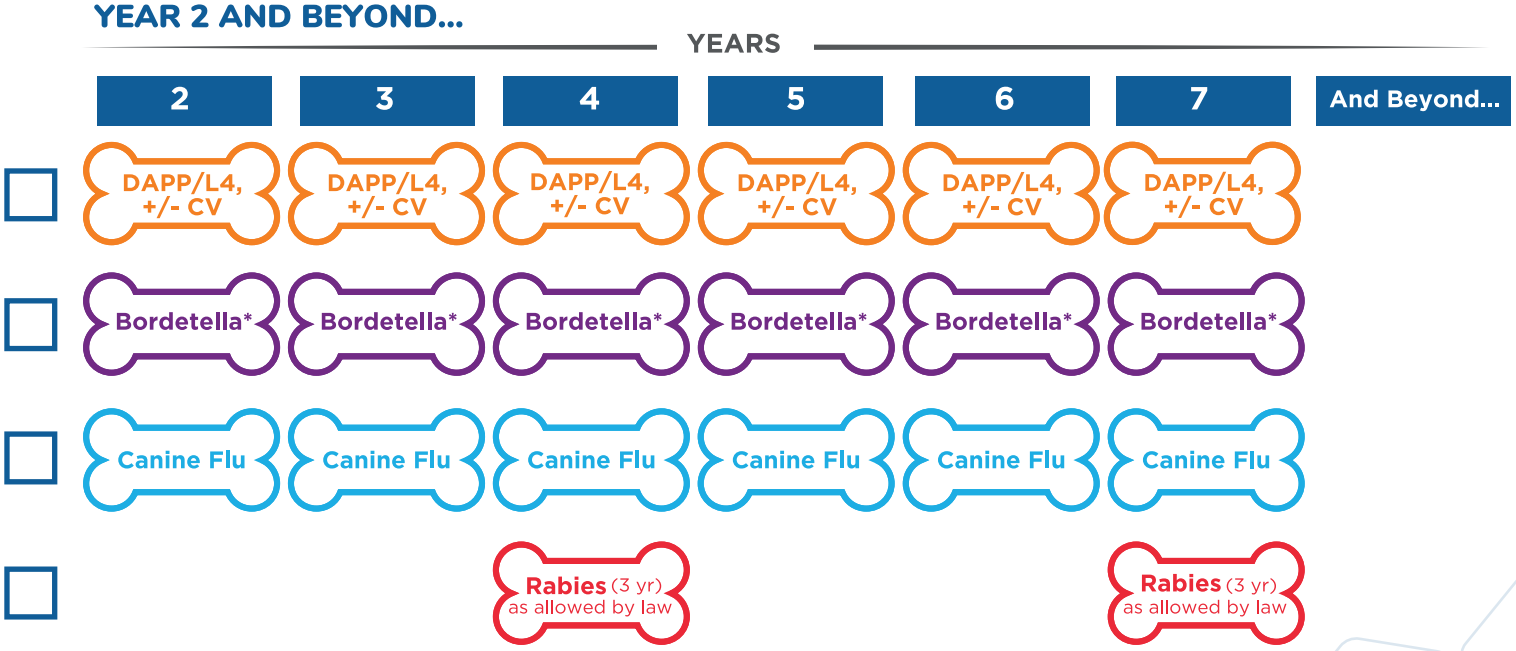

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VACCINE - PREVENTABLE DISEASE AND THE VACCINES THAT PREVENT THEM

DISEASE	VACCINE	DISEASE SPREAD BY	DISEASE CLINICAL SIGNS	DISEASE COMPLICATIONS
Canine Distemper Virus (CDV)	The "D" of DAPP	Aerosol, droplets	Spreads throughout the body. Signs may include fever, lung infection, seizures, skin lesions, immune suppression	Death, long term damage to the nervous system, damage to teeth and bones
Canine Adenovirus 1 (CAV-1)	Considered the "A" of DAPP, as CAV-2 cross protects	Contact with fluids, contaminated surfaces, entry via mouth or nose	Fever, vomiting, diarrhea, spreads to liver, kidney and eyes	Death, damage to liver and kidneys
Canine Adenovirus 2 (CAV-2)	The "A" of DAPP	Aerosol, droplets,	Cough, runny nose, difficulty breathing, fever, poor appetite, lung infection	Severe pneumonia (lung infection) leading to death. Severe disease if more than one infection or very young puppy
Canine Parainfluenza Virus (CPiV)	One of the"Ps"of DAPP	Aerosol, droplets	Cough, runny nose, difficulty breathing, fever, poor appetite, lung infection	Severe disease if more than one infection or very young puppy
Canine Parvovirus (CPV)	One of the "Ps" of DAPP	Entry via mouth or nose from contaminated feces	Fever, vomiting, bloody diarrhea, bone marrow suppression, heart damage	Severe illness leading to death
Canine Coronavirus (CCoV)	The optional "CV" addition to DAPP	Entry via mouth or nose from contaminated feces	Diarrhea	May worsen parvovirus infection
Leptospirosis (L4) 4 types	The "L4" stand alone or in combination with DAPP, covers 4 subtypes of leptospirosis in the US	Direct contact with infected urine or tissue via broken skin, intact mucous membranes of the mouth, nose, eyes; or ingestion. Indirect by contaminated water, soil or food	Fever, lethargy, vomiting, may progress to liver damage, kidney damage, or affect the eyes	Death, zoonotic (contagious to people)
Bordetella bronchiseptica	May be referred to as "kennel cough" vaccine	Aerosol, droplets, contaminated surfaces	Cough, runny nose, difficulty breathing, fever, poor appetite, lung infection	Severe pneumonia (lung infection) leading to death. Severe disease if more than one infection or very young puppy
Canine Influenza Virus (CIV) 2 types	Bivalent CIV H3N2/H3N8 covers for both known strains of dog flu	Aerosol, droplets, contaminated surfaces	Cough, runny nose, difficulty breathing, fever, poor appetite, lung infection	Severe pneumonia (lung infection) leading to death. Severe disease if more than one infection or very young puppy
Borrelia burgdorferi (Lyme*)	There are different types of Lyme vaccine, ask for the broadest coverage	Tick bite	Joint pain and inflammation, lameness, may be long lasting	Severe kidney disease called "Lyme nephritis" leading to death
Rabies	Rabies vaccines are killed virus vaccines	Bite from infected animal or through infected saliva contact with mucous membranes	Spreads through the nerves to the brain with progressive disease resulting in death. Signs may appear as restlessness, irritability, inability to swallow, paralysis, death	Fatal, zoonotic (contagious to people)

Many of the vaccine - preventable diseases in dogs also affect wildlife. This makes lifelong vaccination for disease a necessity as we will never be able to eliminate wildlife as a source of disease.

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