

## Outdoor cats

	Kitten				Adult cat			Comments	
	PV1	PV2	PV3	Final PV/First booster	Vaccinated ≤3 y ago	Vaccinated >3 y ago	Unvaccinated/No vaccination history		
	vaccine/ agent								
<b>Core</b>	FPV	8-9 weeks	12 weeks	16 weeks (in certain situations)	At 10-16 months of age	One immunisation, boost every 3 years or more	One immunisation, boost every 3 years or more	One immunisation, boost 1 year later, then every 3 years or more	Do not use MLV in kittens <4 weeks of age. Do not use MLV in pregnant cats.
<b>Core</b>	FHV	8-9 weeks	12 weeks	Not necessary at 16 weeks, but done in practice due to combined vaccines	At 10-16 months of age	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Recovered cats should be vaccinated.

<b>Core</b>	FCV	8-9 weeks	12 weeks	16 weeks (if high risk or expected high MDA)	At 10-16 months of age	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Recovered cats should be vaccinated.
<b>Depending on circumstances</b>	FeLV	8-9 weeks	12 weeks	-	1 year later	Boost every 2-3 years after 3 years of age	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Cats of uncertain FeLV status should be tested prior to vaccination (unless cats certainly have never been exposed to FeLV) and vaccinated if antigen- and preferably also provirus-negative
<b>Depending on circumstances</b>	Rabies	12-16 weeks. Single vaccination	-	-	1 year later	Some vaccines' DOI is 3 years, but legislation may require annual boosters	One immunisation	One immunisation	Vaccinate in endemic areas only - refer to national and regional legislation for booster frequency
<b>Non-core</b>	FCoV/FIP	Not before 16 weeks	3 weeks later	-	1 year later	One immunisation, boost annually	Two immunisations, boost annually	Two immunisations, boost annually	Intranasal vaccine. Vaccine against FIP is available in some

									European countries. Only vaccinate seronegative cats.
<b>Non-core</b>	<i>Chlamydia felis</i>	8-9 weeks	12 weeks	-	1 year later	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Where cats are kept together longterm, vaccinate regularly
<b>Non-core</b>	<i>Bordetella bronchiseptica</i>	1 month or older. Single vaccination	-	-	1 year later	One immunisation in high density populations only, boost annually	One immunisation in high density populations only, boost annually	One immunisation in high density populations only, boost annually	Do not use MLV in kittens <4 weeks of age. Consider vaccination where there is contact with dogs. Vaccine available in some European countries. Vaccinate in high-density areas where disease due to <i>Bordetella</i> is confirmed.

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## Indoor cats

	vaccine/ agent	Kitten				Adult cat			Comments
		PV1	PV2	PV3	Final PV/First booster	Vaccinated ≤3 y ago	Vaccinated >3 y ago	unvaccinated/no vaccination history	
<b>Core</b>	FPV	8-9 weeks	12 weeks	16 weeks (in certain situations)	At 10-16 months of age	One immunisation, boost every 3 years or more	One immunisation, boost every 3 years or more	One immunisation, boost 1 year later, then every 3 years or more	Do not use MLV in kittens <4 weeks of age. Pregnant cats should not be vaccinated.
<b>Core</b>	FHV	8-9 weeks	12 weeks	Not necessary at 16 weeks, but done in practice due to combined vaccines	At 10-16 months of age	One immunisation, boost every 3 years*	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Recovered cats should be vaccinated

<b>Core</b>	FCV	8-9 weeks	12 weeks	16 weeks (if high risk or expected high MDA)	At 10-16 months of age	One immunisation, boost every 3 years*	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Recovered cats should be vaccinated.
<b>Depending on circumstances</b>	Rabies	12-16 weeks. Single vaccination	-	-	1 year later	One immunisation. Some vaccines' DOI is 3 years, but legislation may require annual boosters	One immunisation	One immunisation	Only vaccinate if required by local legislation and refer to national and regional legislation for booster frequency
	<b>Non-core</b>	FeLV	8-9 weeks	12 weeks	-	1 year later	Boost every 2-3 years after 3 years of age	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later
<b>Non-core</b>	FCoV/FIP	Not before 16 weeks	3 weeks later	-	1 year later	One immunisation, boost annually	Two immunisations, boost annually	Two immunisations, boost annually	Intranasal vaccine. Vaccine against FIP is available in some European countries.

									Only vaccinate seronegative cats.
<b>Non-core</b>	<i>Chlamydia felis</i>	8-9 weeks	12 weeks	-	1 year later	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Where cats are kept together longterm, vaccinate regularly
<b>Non-core</b>	<i>Bordetella bronchiseptica</i>	1 month or older. One immunisation in high density populations only	-	-	1 year later	One immunisation in high density populations only, boost annually	One immunisation in high density populations only, boost annually	One immunisation in high density populations only, boost annually	Do not use MLV in kittens <4 weeks of age. Consider vaccination where there is contact with dogs. Vaccine available in some European countries. Vaccinate in high-density areas where disease due to Bordetella is confirmed.

\*Boost annually if using boarding cattery

## Rescue shelter cats

		Kitten				Adult cat			Comments
		PV1	PV2	PV3	Final PV/First booster	Vaccinated ≤3 y ago	Vaccinated >3 y ago	unvaccinated/no vaccination history	
	primary vaccination course								
<b>Core</b>	FPV	6 weeks (4 weeks if needed)	3-4 weeks later	3-4 weeks later until 16 weeks	At 10-16 months of age	Booster vaccinations at 3 yearly intervals	One immunisation, then at 3 yearly intervals	One immunisation, boost 1 year later then at 3 yearly intervals	Do not use MLV in kittens <4 weeks of age.

<b>Core</b>	FHV	6 weeks (4 weeks if needed)	3-4 weeks later	3-4 weeks later until 12 weeks; not necessary at 16 weeks, but done in practice due to combined vaccines	At 10-16 months of age	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2- 4 weeks apart, boost 1 year later	Vaccinate new cats as soon as possible.
<b>Core</b>	FCV	6 weeks (4 weeks if needed)	3-4 weeks later	3-4 weeks later until 16 weeks	At 10-16 months of age	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2- 4 weeks apart, boost 1 year later	Vaccinate new cats as soon as possible. Due to high antigenic variation of strains, recovered cats should be vaccinated.
<b>Depending on circumstances</b>	Rabies	12-16 weeks. Single vaccinati on	-	-	1 year later	Some vaccines' DOI is 3 years, but legislation may require annual boosters	One immunisation, boost one year later	One immunisation, boost one year later	In endemic areas: handle all strays with caution as potentially infected. Vaccinate only in endemic areas - refer to national and regional legislation



<b>Non-core</b>	FeLV	8-9 weeks	12 weeks	-	1 year later	Boost every 2-3 years after 3 years of age	Quarantine and test before two immunisations, 2-4 weeks apart, boost 1 year later	Quarantine and test before two immunisations, 2-4 weeks apart, boost 1 year later	Not needed if no contact with other cats
<b>Non-core</b>	FCoV/FIP	First immunisation from 16 weeks	3 weeks later	-	1 year later	-	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Intranasal vaccine. Vaccination may be considered in cats that are likely to be seronegative
<b>Non-core</b>	<i>Chlamydia felis</i>	8-9 weeks	12 weeks	-	1 year later	One immunisation, boost annually	Two immunisations, 2-4 weeks apart, boost 1 year later	Two immunisations, 2-4 weeks apart, boost 1 year later	Where cats are kept close together longterm, vaccinate regularly

<b>Non-core</b>	<i>Bordetella bronchiseptica</i>	One immunisation in cats 1 month or older	-	-	1 year later	One immunisation, boost annually	One immunisation, boost annually	One immunisation, boost annually	Do not use MLV in kittens <4 weeks of age. Vaccine available in some European countries. Vaccinate in high-density areas where disease due to <i>Bordetella</i> is confirmed.
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## Breeding catteries

		Kitten primary vaccination course					Breeding cats	Comments
		PV1	PV2	PV3	Final PV/First booster			
	vaccine/agent							
<b>Core</b>	FPV	8-9 weeks	12 weeks	16-20 weeks	At 10-16 months of age		Boost queens 3 yearly, or annually before breeding if low MDA is a concern	Do not use MLV in kittens <4 weeks of age. Pregnant cats should not be vaccinated.

<b>Core</b>	FHV	8-9 weeks	12 weeks	Not necessary at 16 weeks, but done in practice due to combined vaccines	At 10-16 months of age		Boost queens annually and before breeding	Recovered cats should be vaccinated. Consider earlier vaccination in litters from queens that have had infected litters previously. In special circumstances, kittens can be vaccinated from 4-6 weeks of age, then every 2 weeks until 12 weeks of age.
<b>Core</b>	FCV	8-9 weeks	12 weeks	16 weeks	At 10-16 months of age		Boost queens annually and before breeding	Recovered cats should be vaccinated. In special circumstances, kittens can be vaccinated from 4-6 weeks of age, then every 2 weeks until 12 weeks of age.

Depending on circumstances		Rabies	12-16 weeks, single vaccination	-	-		Some vaccines' DOI is 3 years, but legislation may require annual boosters of queens	Only vaccinate if required by local legislation
	<b>Non-core</b>	FeLV	8-9 weeks	12 weeks	-	1 year later	Boost queens every 2-3 years after 3 years	Breeding catteries should be FeLV negative. Vaccination not needed unless there is access to outdoors and in a high-risk geographical area
	<b>Non-core</b>	FCoV/FIP	Not before 16 weeks	3 weeks later	-	1 year later	Boost queens annually	Only seronegative cats should be vaccinated. Intranasal vaccine, available in some European countries
<b>Non-core</b>	<i>Chlamydia felis</i>	8-9 weeks	12 weeks	-	1 year later	Boost queens annually	-	

<b>Non-core</b>	<i>Bordetella bronchiseptica</i>	One immunisation in cats 1 month or older	-	-	1 year later	Boost queens annually	Do not use MLV in kittens <4 weeks of age. Vaccine available in some European countries. Vaccinate in catteries where disease due to Bordetella is confirmed.
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10 **Reference**

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12 1 Hosie MJ, Addie D, Bélak S, Boucraut-Baralon C, Egberink H, Frymus T, et al.

13 **Matrix vaccination guidelines. ABCD recommendations for indoor/outdoor**

14 **cats, rescue shelter cats and breeding catteries. *J Feline Med Surg* 2013; 15:**

15 540-544.