



THE PRIMARY PREVENTION IN CATS

EXCEPTIONAL EXPERTISE FOR SUCH AN EXCEPTIONAL ANIMAL

What is it?

Why is it so important?

And particularly in cats?

How to manage it?



PRIMARY PREVENTION,
WHAT IS IT?

WHAT IS PRIMARY PREVENTION?

International Cat Care identifies 3 categories to succeed in a regular lifelong preventive healthcare.

1. PRIMARY PREVENTION

Avoiding development of disease

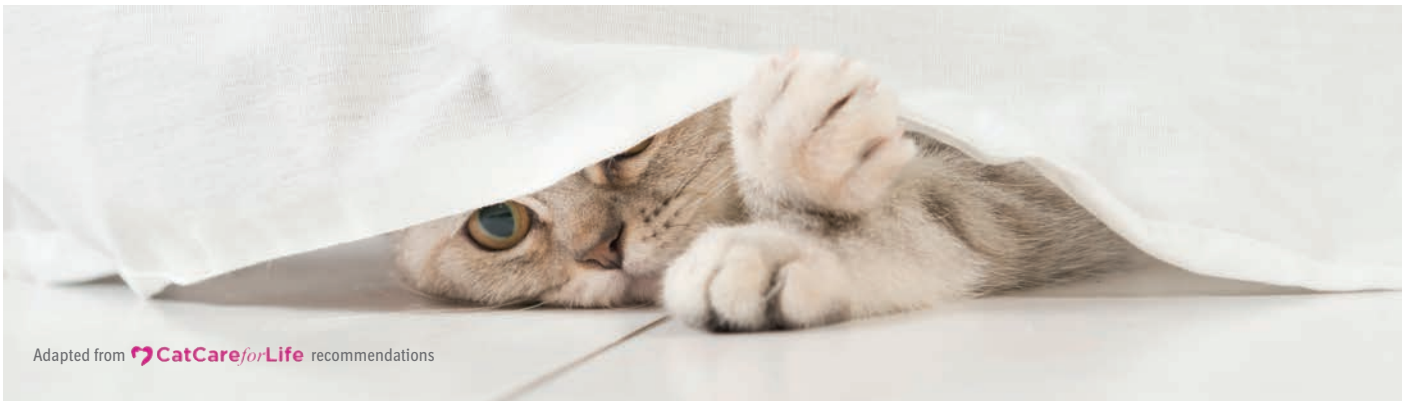
2. SECONDARY PREVENTION

Early detection of disease

3. TERTIARY PREVENTION

Reducing the impact of disease

The first aspect of preventive healthcare is **primary prevention**, avoiding the development of disease.





PRIMARY PREVENTION, WHY IS IT SO IMPORTANT, PARTICULARLY IN CATS?

WHY IS PRIMARY PREVENTION SO IMPORTANT FOR CATS?

1. PRIMARY PREVENTION

Avoiding development of diseases: vaccination and routine parasite control are the pillars.



Adapted from  CatCare for Life recommendations

WHY IS VACCINATION SO IMPORTANT?

Vaccination is one of the most important preventive measures in keeping cats healthy.

Vaccination is intended to protect individuals against disease caused by bacteria and viruses, but also to prevent infection and transmission of the agents within a population.

Vaccination coverage - when exceeding ~70% of a population, as shown e.g. by antibody prevalence - leads to “herd immunity”, which is a safeguard against epidemics⁽¹⁾.

WHY IS PARASITE CONTROL IMPORTANT?

More than 50% of owned cats carry parasites, and 14% are co-infested with both internal and external parasites⁽²⁾, which can be a serious concern.

Up to 20% of infesting fleas are ingested daily by cats during grooming⁽³⁾, which may lead to *Dipylidium caninum* infestation.

Parasites are not only responsible for diseases in cats. Some of them may be transmitted to humans, causing zoonotic diseases.

PRIMARY PREVENTION, WHY PARTICULARLY IN CATS?

Because of their **LIFESTYLE AND NATURAL BEHAVIOR**, cats can be exposed to contaminated environments or to other cats. Thus they are at risk for both infections and parasitic diseases⁽⁴⁾.

Cats
are grooming
animals



Cats
are natural
hunters



Cats are
roaming
animals



Cats
are
territorial



Because primary prevention is the **NEEDED BASIS AT ALL LIFE STAGES**.



Kitten [0-6m]



Junior [7m-2y]



Adult [3-6y]



Mature [7-10y]



Senior [11-14y]



Super Senior [15y+]

Adapted from  **CatCare for Life** recommendations

Because **BOOSTER VACCINATION** is the top one reason for a cat-owner to visit a vet⁽⁵⁾.

“Vaccination helps me feel less worried concerning my cat’s health and makes me feel secure and reassured about my cat’s health.”⁽⁵⁾

Because the **CONTROL OF PARASITES** is a main expectation for a cat-owner.

“I feel less worried concerning my cat’s health and it makes me feel secure and reassured when I treat my cat against parasites. I need to have the most advanced and adequate solutions for my cat.”⁽⁵⁾

PRIMARY PREVENTION, HOW TO MANAGE IT IN CATS?



PRIMARY PREVENTION, HOW TO MANAGE IT IN CATS?

Mostly as simple as vaccination and routine parasite control!

LIFE STAGE & LIFESTYLE	VACCINATION						FLEAS/TICKS	DEWORMING***
	FHV	FCV	FPV	RABIES**	FeLV	<i>Chlamydia felis</i>		
KITTEN (<6 MONTHS) OUTDOORS & INDOORS: Possible access to the outside or contact with outdoor cats (& other pets).	2-3 doses 3-4 weeks apart*	2-3 doses 3-4 weeks apart*	2-3 doses 3-4 weeks apart*	Single dose after 3 months of age**	2-3 doses 3-4 weeks apart*	2-3 doses 3-4 weeks apart*	Every month during the relevant period	Every 15 days until 2 months of age. Every month until 6 months of age.
KITTEN (<6 MONTHS) STRICTLY INDOORS: No access to the outside & no contact with FeLV positive cats, or any other pets.	2-3 doses 3-4 weeks apart*	2-3 doses 3-4 weeks apart*	2-3 doses 3-4 weeks apart*	Single dose after 3 months of age**	-	-	Check regularly the cat for external parasite infestation	
From JUNIOR to SUPER SENIOR OUTDOOR ACCESS: Contact with outdoor cats (& other pets) and preying behaviors are likely.	Annual boosters	Annual boosters	Every 1-3 years after 1 year boost	Every 1-3 years after 1 year boost**	Annual boosters	Annual boosters indicated for cats with sustained exposure	Every month during the relevant period	General recommendation: every 3 months (more for cats hunting or fed with raw meat)
From JUNIOR to SUPER SENIOR STRICTLY INDOORS: No access to the outside & no contact with FeLV positive cats, or any other pets.	Every 1-3 years after 1 year boost	Every 1-3 years after 1 year boost	Every 1-3 years after 1 year boost	Every 1-3 years after 1 year boost**	-	-	Check regularly the cat for flea infestation	General recommendation: once or twice a year
From JUNIOR to SUPER SENIOR CAT COMMUNITIES, SHELTERS & BREEDING CATTERIES	Annual boosters	Annual boosters	Every 1-3 years after 1 year boost	Every 1-3 years after 1 year boost**	Annual boosters	Annual boosters	Every month during the relevant period	General recommendation: every 3 months depending on health status of the community
SPECIFIC CASES								
PRIMARY VACCINATION JUNIOR, ADULT, MATURE, SENIOR & SUPER SENIOR	2 doses 3-4 weeks apart. Then refer to boosters protocols	2 doses 3-4 weeks apart. Then refer to boosters protocols	2 doses 3-4 weeks apart. Then refer to boosters protocols	Single dose Then every 1-3 years after 1 year boost**	2 doses 3-4 weeks apart. Then refer to boosters protocols	2 doses 3-4 weeks apart. Then refer to boosters protocols	See above	See above
HEARTWORM ENZOOTIC AREAS	-	-	-	-	-	-	See above	Heartworm prevention every month during the relevant period
FAMILY WITH YOUNG CHILDREN ZOO NOTIC RISK LINKED TO PARASITES	-	-	-	-	-	-	Every month during the relevant period	Every month

* As recommended by international guidelines, where high levels of maternal antibodies are expected to be present, e.g. in kittens of 9-12 weeks of age born from queens which were vaccinated before pregnancy and/or with known or suspected previous exposure to the pathogen(s).

** If required by national and local legislation. - *** Based on Escapp guideline 01, May 2021

PRIMARY PREVENTION, HOW CAN BOEHRINGER INGELHEIM HELP YOU?

Boehringer Ingelheim's expertise in primary prevention brings veterinarians and cat owners a **broad feline-dedicated range of vaccines and parasiticides**, aiming at meeting cats' needs according to their life stages and lifestyles.

THE ONE AND DONE PARASITE CONTROL FOR CATS



FULLY ADJUVANT FREE FELINE VACCINE RANGE IN 0.5 ML*



*PUREVAX Rabies remains in 1ml

A TOP-OF-MIND BRAND AMONG CAT OWNERS



FRONTLINE COMBO

REFERENCES:

1. <http://www.abcdcatsvets.org/vaccines-and-vaccination-an-introduction/>
(Last access march 2022)
2. Beugnet F. et al. Parasites of domestic owned cats in Europe: co-infestations and risk factors. (In *Parasit Vectors* 2014; Jun 25;7:291)
3. Hinckle et al. Host grooming efficiency for regulation of cat flea (*Siphonaptera: Pulicidae*) populations. *J Med Entomol.* 1998 May; 35(3):266-269
4. Diakou A. et al. Intestinal parasites and vector-borne pathogens in stray and free-roaming cats living in continental and insular Greece. *PLOS Neglected Tropical Diseases* | DOI:10.1371/journal.pntd.0005335, 2017
5. *IPSOS Pet Owner Clarity November 2016: Towards a holistic understanding of pet owners motivations & needs*
6. *Catcareforlife: <https://www.catcare4life.org/>*



LEGAL TEXT:



PUREVAX : PUREVAX RC, PUREVAX RCP, PUREVAX RCPCh, PUREVAX FeLV, PUREVAX RCP FeLV, PUREVAX RCPCh FeLV, PUREVAX Rabies

Prescribing information: PUREVAX RC, PUREVAX RCP, PUREVAX RCPCh, PUREVAX FeLV, PUREVAX RCP FeLV, PUREVAX RCPCh FeLV, PUREVAX Rabies contain attenuated feline rhinotracheitis herpesvirus (FHV F2) strain, inactivated feline Caliciviriosis antigens (FCV 431 and G1), attenuated feline panleucopenia virus (PLI IV), attenuated *Chlamydomphila felis* (905 strain), FeLV recombinant canarypox virus (vCP97), Rabies recombinant canarypox virus (vCP65). **Indications for use:** Depending on the combination of components used, active immunisation of cats aged 8 weeks (12 weeks for PUREVAX rabies) and older: – against feline viral rhinotracheitis to reduce clinical signs, – against calicivirus infection to reduce clinical signs, – against feline panleucopenia to prevent mortality and clinical signs, – against *Chlamydomphila felis* infection to reduce clinical signs, – against leukaemia to prevent persistent viraemia and clinical signs of the related disease, – against rabies to prevent mortality. Further information is available from the data sheet or on request from Boehringer Ingelheim Vetmedica GmbH, Binger Str. 173, 55216 Ingelheim am Rhein, Germany. PUREVAX is a registered trademark of Boehringer Ingelheim Animal Health Ltd. © Boehringer Ingelheim Ltd 2018. All rights reserved.



NEXGARD Combo spot-on solution for cats < 2.5 kg and cats 2.5 7.5 kg

Active substances/ Cats 0.8–<2.5 kg (volume of unit dose 0.3 ml)/ Esafoxolaner 3.60 mg, Eprinomectin 1.20mg, Praziquantel 12.90 mg. Cats 2.5–<7.5 kg (volume of unit dose 0.9 ml)/ Esafoxolaner 10.80 mg, Eprinomectin 3.60 mg, Praziquantel 74.70 mg. **Indications:** For cats with, or at risk from mixed infections by cestodes, nematodes and ectoparasites. The veterinary medicinal product is exclusively indicated when all three groups are targeted at the same time. Treatment of infestations by fleas (*Ctenocephalides felis*). One treatment provides immediate and persistent flea killing activity for one month. The product can be used as part of a treatment strategy for the control of flea allergy dermatitis (FAD). Treatment of infestations by ticks. One treatment provides immediate and persistent tick killing activity against *Ixodes scapularis* for one month and against *Ixodes ricinus* for five weeks. Treatment of infestations by ear mites (*Otodectes cynotis*). Treatment of Notoedric mange (caused by *Notoedres cati*). Treatment of infections with tapeworms (*Dipylidium caninum*, *Taenia taeniaeformis*, *Echinococcus multilocularis*, *Joyeuxiella pasqualei* and *Joyeuxiella fuhrmanni*). Treatment of infections with gastrointestinal nematodes (L3, L4 larvae and adults of *Toxocara cati*, L4 larvae and adults of *Ancylostoma tubaeforme* and *Ancylostoma ceylanicum*, and adult forms of *Toxascaris leonina* and *Ancylostoma braziliense*). Prevention of heartworm disease (*Dirofilaria immitis*) for one month. Treatment of infections with feline lungworms (L4 larvae and adults of *Troglostrongylus brevior*, L3, L4 larvae and adults of *Aelurostrongylus abstrusus*). Prevention of aelurostrongylosis (by reduction of the level of infection with L3, L4 larvae of *Aelurostrongylus abstrusus*). Treatment of infections with vesical worms (*Capillaria plica*). **Administration:** For the treatment of infestations with fleas and/or ticks and/or ear mites, and the concurrent treatment of gastrointestinal and/or pulmonary, and/or vesical nematodes, and cestodes, a single dose of the product should be applied. The need for and frequency of re-treatment(s) should be in accordance with the advice of the prescribing veterinarian and should take into account the local epidemiological situation and the animal's lifestyle (e.g. outdoors access). **To be supplied only on veterinary prescription.**



FRONTLINE Combo® Spot On Cat. Each pipette of 0.5 ml contains: Fipronil 50 mg, (S)-methoprene 60.0 mg Butylhydroxyanisole (E320) 0.10 mg Butylhydroxytoluene (E321) 0.05 mg, Ethanol 39.50 mg. **Indications for use:** In cats: Elimination of fleas (*Ctenocephalides* spp.). Insecticidal efficacy against new infestations with adult fleas persists for 4 weeks. Prevention of the multiplication of fleas by inhibiting the development of eggs (ovicidal activity), larvae and pupae (larvicidal activity) originating

from eggs laid by adult fleas for six weeks after application. Elimination of ticks (*Ixodes ricinus*, *Dermacentor variabilis*, *Rhipicephalus sanguineus*). The product has a persistent acaricidal efficacy for up to 2 weeks against ticks. Elimination of biting lice (*Felicola subrostratus*). The product can be used as part of a treatment strategy for the control of Flea Allergy Dermatitis (FAD). **In ferrets:** Elimination of fleas (*Ctenocephalides* spp.). Insecticidal efficacy against new infestations with adult fleas persists for 4 weeks. Prevention of the multiplication of fleas by inhibiting the development of eggs (ovicidal activity), larvae and pupae (larvicidal activity) originating from eggs laid by adult fleas. Elimination of ticks (*Ixodes ricinus*). The product has a persistent acaricidal efficacy for 4 weeks against ticks. **Contraindications:** Do not use in rabbits, as adverse drug reactions with even mortality could occur. **Amounts to be administered and administration route:** One pipette of 0.5 ml per cat or ferret, by topical application to the skin. In the absence of safety studies, the minimum treatment interval is 4 weeks.

For information about adverse reactions, precautions and warnings for these products, please refer to the products packaging and package leaflet.