

Supplementary Table S1. FIV point-of-care (PoC) test kits used in cohort 1 ($n = 525$; in-house hematology and biochemistry testing) and cohort 2 ($n = 282$; external hematology and biochemistry testing). All cats in cohort 3 ($n = 425$; FIV vaccine efficacy study) were tested with three different FIV PoC test kits (Witness[®], SNAP[®] Combo and Anigen Rapid[®]).

Test kit	Cohort 1 ($n = 525$)		Total		Cohort 2 ($n = 282$)		Total	
	FIV-uninfected	FIV-infected			FIV-uninfected	FIV-infected		
Witness [®]	306	98	404		168	47	215	
SNAP [®] Combo	86	33	119		53	12	65	
Senspert [®]	0	1	1		0	1	1	
FIV RealPCR TM	0	1	1		0	1	1	
TOTAL	392	133 (25%)	525		221	61 (22%)	282	

Supplementary Table S2. Analysis of possible associations between FIV infection and hematology and biochemistry results of potential clinical significance for cats in cohort 1 ($n = 525$; in-house hematology and biochemistry testing). Significant differences ($p < 0.05$) between FIV-infected and FIV-uninfected cats are in bold text. OR = odds ratio, LCI = lower confidence interval, UCI = upper confidence interval.

Variable	FIV-uninfected			FIV-infected			OR	LCI	UCI	<i>p</i> value
	Yes/No	<i>n</i>	%	<i>n</i>	%					
Eosinopenia (eosinophil count $< 0.17 \times 10^9/L$)	No	163	41.6	59	44.4		0.89	0.60	1.3	0.58
	Yes	229	58.4	74	55.6					
Lymphocytosis (lymphocyte count $> 6.88 \times 10^9/L$)	No	360	91.8	129	97		0.35	0.12	0.98	0.046
	Yes	32	8.2	4	3					
Lymphopenia (lymphocyte count $< 0.92 \times 10^9/L$)	No	285	72.7	102	76.7		0.81	0.51	1.3	0.37
	Yes	107	27.3	31	23.3					
Neutrophilia (neutrophil count $> 10.29 \times 10^9/L$)	No	272	69.4	100	75.2		0.74	0.48	1.2	0.20
	Yes	120	30.6	33	24.8					
Neutropenia (neutrophil count $< 2.3 \times 10^9/L$)	No	277	70.7	91	68.4		1.1	0.76	1.7	0.63
	Yes	115	29.3	42	31.6					
Leukocytosis (WBC count $> 17.02 \times 10^9/L$)	No	298	76	111	83.5		0.63	3.8	1.0	0.075
	Yes	94	24	22	16.5					
Leukopenia (WBC count $< 2.87 \times 10^9/L$)	No	315	80.4	104	78.2		1.1	0.71	1.8	0.59
	Yes	77	19.6	29	21.8					

Anemia <i>(hematocrit <0.3 L/L)</i>	No	232	59.2	76	57.1	1.1	0.73	1.6	0.68
Low RBC Count <i>(RBC count <6.54 x 10¹²/L)</i>	No	203	51.8	57	42.9	1.4	0.96	2.1	0.076
Macrocytosis (MCV >53. fL)	No	374	95.4	118	88.7	2.6	1.3	5.4	0.008
	Yes	18	4.6	15	11.3				
Thrombocytopenia <i>(platelet count <151 x 10⁹/L)</i>	No	227	57.9	69	51.9	1.3	0.86	1.9	0.23
	Yes	165	42.1	64	48.1				
Bands suspected <i>(presence of band neutrophils)</i>	No	309	78.8	113	85	0.96	0.62	1.5	0.84
	Yes	83	21.2	20	15				
Hypoalbuminemia <i>(albumin <23 g/L)</i>	No	291	74.2	108	81.2	0.67	0.41	1.1	0.11
	Yes	101	25.8	25	18.8				
Hyperglobulinemia (globulin >51 g/L)	No	311	79.3	65	48.9	4.017	2.64	6.104	<0.001
	Yes	81	20.7	69	51.1				
Hyperproteinemia (total protein >89 g/L)	No	358	91.3	107	80.5	2.559	1.471	4.452	<0.001
	Yes	34	8.7	26	19.5				

Supplementary Table S3. Analysis of possible associations between FIV infection and hematology and biochemistry results of potential clinical significance for cats in cohort 2 ($n = 282$; external hematology and biochemistry testing). Significant differences ($p < 0.05$) between FIV-infected and FIV-uninfected cats are in bold text. OR = odds ratio, LCI = lower confidence interval, UCI = upper confidence interval.

Variable	Yes/No	FIV-uninfected		FIV-infected		OR	LCI	UCI	<i>p</i> value
		<i>n</i>	%	<i>N</i>	%				
Leukocytosis <i>(WBC count >17.02 x 10⁹/L)</i>	No	183	82.8	53	86.9	0.73	0.32	1.7	0.45
	Yes	38	17.2	8	13.1				
Leukopenia <i>(WBC count <2.87 x 10⁹/L)</i>	No	170	76.9	41	67.2	1.6	0.88	3.0	0.12
	Yes	51	23.1	20	32.8				

Lymphopenia (lymphocyte count <0.92 × 10 ⁹ /L)	No	169	76.5	43	70.5	1.4	0.72	2.6	0.34
Neutrophilia (neutrophil count >10.29 × 10 ⁹ /L)	No	181	81.9	82	85.2	0.78	0.36	1.7	0.54
Neutropenia (neutrophil count < 2.3 × 10 ⁹ /L)	No	185	83.7	46	75.4	1.7	0.85	3.3	0.14
Thrombocytopenia (platelet count <151 × 10 ⁹ /L)	No	118	53.4	29	47.5	1.264	0.716	2.23	0.418
Toxic change in neutrophils (as reported by pathologist)	No	171	77.4	43	80.5	1.4	0.76	2.7	0.27
Activated lymphocytes (as reported by pathologist)	No	181	81.9	55	90.2	0.49	0.20	1.2	0.13
Anemia (hematocrit <0.25 L/L)	No	162	73.3	44	72.1	1.061	0.563	1.996	0.86
Low RBC Count (RBC <4.9 × 10 ¹² /L)	No	167	75.6	46	75.4	1.0	0.52	1.9	0.98
Hypochromia (hemoglobin <97 g/L)	No	158	71.5	41	67.2	1.2	0.67	2.2	0.52
Macrocytosis (MCV >55 fL)	No	195	88.2	48	78.7	2.0	0.97	4.2	0.059
Hypoalbuminemia (albumin <29 g/L)	No	103	46.6	24	39.3	1.3	0.76	2.4	0.31
Hyperglobulinemia (globulin >52 g/L)	No	195	88.2	40	65.6	3.9	2.0	7.7	<0.001
Hyperproteinemia (total protein >84 g/L)	No	203	91.9	46	75.4	3.7	11.7	7.8	<0.001
	Yes	18	8.1	15	24.6				

Supplementary Table S4. Cause of death (both euthanasia and non-euthanasia) for non-survivor cats in cohort 1 and 2 combined ($n = 737$; in-house hematology and biochemistry testing). Two-tailed Fisher's exact testing was used to calculate p values for each category of death in the cohort according to FIV status. Significant differences ($p < 0.05$) between FIV-infected and FIV-uninfected cats are in bold text. Where multiple disease processes were present, the primary morbidity is displayed below. 'Other' causes of death included urethral obstruction, urinary tract disease, diabetes mellitus, dermatological disease, behavioral conditions, cardiorespiratory disease, client financial constraints, gastrointestinal disease,

hepatobiliary disease, infection, sepsis, trauma and FIV status (two FIV-infected cats were euthanased due to their FIV status at the request of their owners). FIP = feline infectious peritonitis.

Cause of death	Cohort 1 and 2 (<i>n</i> = 737)		<i>p</i> value
	FIV-uninfected	FIV-infected	
Hematological disease	34	10	0.12
Neoplasia	21	17	0.14
Neurological disease	16	2	0.06
Renal disease	24	3	0.02
Respiratory disease	4	1	1.00
Suspected FIP	10	0	0.03
Severe clinical disease	53	44	0.001
Unknown	15	7	1.0
Other	10	8	0.45
TOTAL	187	92	-