



This document is provided courtesy of Dr. Salih Sahir who oversees the Turkish FIP Advisory and Care Group on Facebook. We recommend to print and take this to your vet if your cat is suspected of the effusive form of FIP.

Three tables are included in this file:

- The first table lists the differential diagnosis by body fluids in cats. Body fluids are listed by type, with a list of diagnosis per type of effusion. This is a comprehensive list. If your cat has developed an effusion, it falls in one of these categories.
- The second table details the biochemical analysis and cellular analysis of body fluids in differential diagnosis in cats.
- The third table is the ratio of FIP probability in cats based on age and breed (pedigree or domestic).

The first two tables are diagnostic tools, the third table is for statistical purposes only.

We are thankful to Dr. Sahil Sahir for taking the time to compile such an extensive document.

For advice on Feline Infectious Peritonitis diagnosis, tests and treatment,
please join our [Facebook group](#)

Differential Diagnosis by Body Fluids in Cats

Transudate

- Hepatobiliary
- Pancreatic
- Rupture of a cyst
- Hypoalbuminemia (<1.5 g/dl)
- Nephrotic Syndrome
- Renal Failure
- Protein Losing Enteropathy
- Prostatic

Modified Transudate

- Early Hepatic Cirrhosis
- Caval Occlusion
- Right CHF
- Idiopathic Pericardial Effusion
- Pulmonary Hypertension
- Lymphangitis
- Neoplastic Effusion
- Eosinophilic Effusion
- Heartworm Disease
- Rarely FIP

Septic Exudate

- **GI perforation**
 - Neoplasia
 - Thrombosis
 - Volvulus
 - Intussusception
 - Penetrating Wound
 - Surgical Dehiscence
- **Ruptured Abscess**
- **Infections**
 - Bacterial
 - Fungal
 - Parasitic
 - Viral
 - Other
- **Bile peritonitis**

Bilious Effusion

- Ruptured Gall Bladder
- Ruptured Biliary Vessel

Uroabdomen

- Ruptured Urinary Bladder

Chylous Effusion

- Idiopathic
- Lymphangitis
- Lymphoma
- Right CHF
- Trauma
- Heartworm Disease

Hemorrhage

- Bleeding Neoplasia
- Coagulopathy
- Vasculitis
- Idiopathic Pericardial Effusion
- Trauma

Non-Septic Exudate

- **Neutrophilic**
 - Pancreatitis, Steatitis
 - Tissue Necrosis
 - Neoplasia
 - Uroabdomen
 - Bile Peritonitis
 - FIP
- **Eosinophilic**
 - Systemic Mastocytosis
 - Hypereosinophilic Syndrome
 - Eosinophilic Lung Disease
 - Cancer
 - Heartworm disease

FIP

- Effusive FIP

Biochemical Analysis of Body Fluids in the Differential Diagnosis in Cats

	Protein (g/l)	Glucose	LDH	CHOL/TRIG	Rivatta	Cells (mm ³)	SG	pH
Transudate	< 25	70 - 100	< 200	> 1.0	Negative	< 1000	< 1018	~ 7.4
Modified Transudate	~ 25 - 75	70 - 100		> 1.0	Negative (Low +)	1000 – 7000	1018 - 1025	~ 7.4
Exudate	> 30	< 30	> 200	> 1.0	Positive	> 7000	> 1025	< 7.4
Chylous	> 25	70 - 100		< 1.0 (TRIG > 100)	Positive	Various	> 1018	~ 7.4
FIP	> 25 - 35	< 70	> 300		Positive (A/G < 0.8)	1500 - 2000	> 1030	~ 7.4
Cancer	> 25	10 - 80	200-1600	> 1.0		Various	> 1018	≥ 7.4
Hemorrhage	> 30			> 1.0		> 1000	> 1025	~ 7.4

Cellular Analysis of Body Fluids in the Differential Diagnosis in Cats

	Lymphocyte	Mesothelial	Macrophage	Neutrophil (Deg)	Neutrophil (Non-Deg)	Erythrophil	Neoplastic
Transudate	(+)	+	+	-	(+)	-	-
Modified Transudate	++	+	+	-	+	(+)	-/+
Exudate (Septic)	+	+	+/+++	+++	+	(+)	-
Exudate (Non-Septic)	+	+	+/+++	-	++	(+)	-/+
Chylous	+++	+	+/+++	-	+	-	-
Chylous (Pseudo)	++	++	++	+	++	(+)	-
FIP	+	-	+	-	+	-	-
Cancer	+	+	+	-	+	(+)	+++/-
Hemorrhage	(+)	+/+++	+	(+)	(+)	+++	-

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Ratio of Probable FIP-associated Fluid Buildup in Cats

Cat's Age	Pedigree Cats	Domestic Cats
< 1 year	95%	79%
1 year	70%	40%
2-3 years	53%	41%
4-5 years	60%	33%
6-7 years	20%	21%
8-9 years	23%	34%
> 10 years	11%	14%

The table illustrates the likelihood of an effusion to be associated with FIP in cats. For instance, a pedigree cat with an effusion under one year of age is 95% likely to have FIP, whereas the likelihood of a domestic cat aged 6-7 years to have FIP is only 21%. Accordingly, you can estimate the probability of effusive FIP from this table based on the cat's age and breed.

This table is only for statistical purposes and cannot replace the actual FCoV RT-PCR testing of a fluid sample at a reputable veterinary laboratory.

Source:

<https://steemit.com/cats/@catvirus/diagnosing-feline-infectious-peritonitis-fip-diane-d-addie>

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