

## FAQ about treating FIP using GS-441524



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Sadly some of our warriors do not win the battle. We understand the need to grieve and want to provide community support at these difficult times. Please only post pictures of your warrior when they were still alive, **no postmortem pictures**. We also need to be able to manage this page. So after a period of time we will turn off commenting on these posts.

**ATTENTION VETS: Please PM a moderator for GS information versus posting in the group looking for it to protect yourselves and your licenses.**

## FAQ about treating FIP using GS-441524

### Q: What is GS?

A: GS is short for GS-441524 which is an experimental anti-viral drug (nucleoside analog) that has cured cats with FIP in field trials conducted at UC Davis by Dr. Neils Pedersen and his team. See study here: <https://journals.sagepub.com/doi/full/10.1177/1098612X19825701>

**It is currently available as an injection or an oral medication. Please ask an admin!**

### Q: How long is the treatment?

A: **Recommended treatment based on Dr. Pedersen's original field trial is a minimum of 12 weeks of daily sub-cutaneous injections.**

Bloodwork should be checked at the end of 12 weeks and cat's symptoms should be assessed to see if additional treatment is needed.

### Q: What is the correct dose of GS to give my kitty?

A: Dosing is based on the weight of the cat.

Below is a very good online tool for calculating the correct dose for your cat.

<https://www.omnicalculator.com/health/dosage>

The image shows a screenshot of an online dosage calculator. The form has several input fields with red boxes around them and red arrows pointing to explanatory text on the right. The fields and their corresponding text are:

- Your weight:** A dropdown menu with "lb" selected. Text: "Your kitty's weight. Select lb or kg"
- Dosage:** A dropdown menu with "mg /kg" selected. Text: "PUT THE DOSAGE YOU PLAN TO USE HERE. Wet or Dry FIP with no neuro or ocular involvement 5-6mg/kg. Ocular and /or neuro involvement 8-10mg/kg"
- Dose:** A dropdown menu with "mg" selected. Text: "This will show the dose of GS in mg. More useful if using pills than injections."
- Medicine concentration:** A dropdown menu with "mg/mL" selected. Text: "Concentration of the GS you are using. Most are 15mg, White Cap Hero is 16.5mg and Mutian is 16.7mg"
- Liquid dose:** A dropdown menu with "ml" selected. Text: "The amount of GS to inject daily will appear here"

**Fill in the boxes as shown above to calculate the daily dose**

If you love math, the formula to calculate is:

$$5\text{mg}^*(\text{GS}) \times \text{weight}(\text{kg}) / \text{GSconcentration per 1mL}^{**} = \text{dose per 24hr}$$

\*Neurological and Ocular FIP cats require 8 mg / kg MINIMUM. Can go as high as 10mg/kg

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**Q: What exactly are “neuro” or “ocular” cases?**

**A:** “Neuro” cat means that FIP has crossed the blood brain barrier and symptoms include central nervous system issues. Ataxia (weakness in my back legs especially), inability to jump fully without hesitation, poor coordination and seizures may occur. Ocular involvement, which is common with the neurological form since the eyes and brain are closely connected, looks like this:



Zach has been cured of ocular dry FIP!

**Q: How much does the 12 weeks of treatment cost?**

**A:** **Each 5 mL bottle of treatment costs from \$80 - \$358 depending on the brand.**

Dose will depend on the weight of the cat - each bottle of GS is 5mL liquid at either 15mg or 17 mg concentration depending on the brand purchased.

**The cost of 12 weeks of treatment will depend on the weight of the cat, type of FIP being treated and brand of GS being used.**

**Q: Why are the prices so varied**

**A:** The different manufacturers charge different prices. The most expensive brand comes with a guarantee that your cat will be cured using their products for 12 weeks as long as the cat is not neurological nor ocular. They also offer oral medication. Other brands range in price from \$80 per bottle to \$145 per bottle. **Please contact an admin for further information and on how to order.**

**Q: How do I obtain the FIP treatment?**

**A:** Please contact any admin in the group for help.

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**Q: How do I know the FIP treatment I am getting is the real thing and will work?**

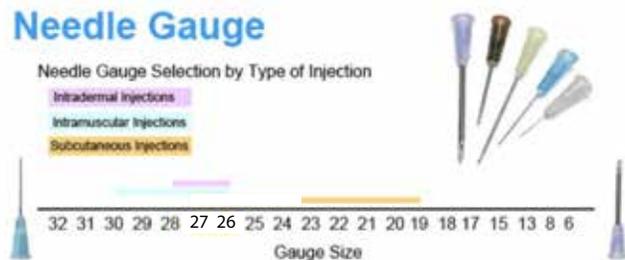
**A:** While we randomly tested two brands of FIP treatment we discuss in this group and confirmed biological activity and acidity as claimed by the sellers, the group cannot and will not provide any guarantees. All cat owners using these treatments are doing that at their own risk. We can only share our experiences and successes we had. We tested the earlier versions of 3 brands and confirmed GS-441524 was the active compound.

**Q: What size syringes and needles do I need?**

**A:** Depending on what your cat's dose is, you can use either a 1 mL or a 3 mL syringe. Use a 20 gauge needle to draw up the GS into the syringe and then it's best to CHANGE the needle to a fresh one of the same size OR SLIGHTLY SMALLER (21 or 22 gauge) to inject. The GS liquid is somewhat thick and a larger needle allows it to be drawn up and injected faster. The LENGTH of needle can be anywhere from 1/2" to 1 1/2" in length. It's a bit of a personal preference. Some use the longer needles to try and avoid any GS leaking out, some are more comfortable injecting with a shorter needle. **You DEFINITELY want Luer-lock needles so they can be secured to the syringes and not pop off.**

### A NOTE ON NEEDLE GAUGE SIZES:

The number used to describe the circumference or "width" of the needle opening gets **larger** as the size of the opening gets **smaller**. For example, an 18 gauge needle has a larger opening than a 21 gauge needle.



**Q: Where do I get syringes and needles?**

**A:** Hopefully your vet can start you out with a few syringes and needles. They can also be ordered from:

- Amazon.com
- Valley Vet Supply <https://www.valleyvet.com/>
- MedLab Supply <https://www.medical-and-lab-supplies.com/>
- Care Touch <https://www.caretouchusa.com/>

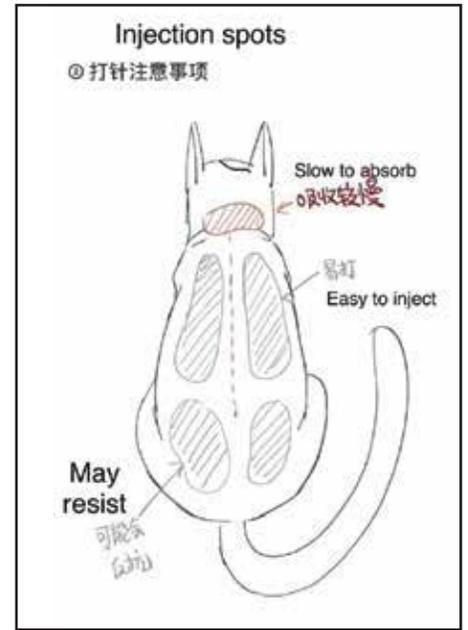
Insulin syringes are NOT recommended unless you change to a larger needle. The insulin needles are too small for the thickness of the GS to pass through them.

## FAQ about treating FIP using GS-441524

### Q: How do I give the GS injections?

**A:** The injections are given sub-cutaneously or “sub-cu” which means just under the skin. Injections are to be given every 24 hours at as close to the same time everyday as is possible for at least 12 weeks. The needle should NOT poke into the muscle of the cat. The GS stings upon injection but the pain is over as soon as the injection is over. It’s best to have your vet do the first injection or two and to teach you how to do them. Kitties that are more difficult to restrain for the shots may require daily trips to the vet.

<https://www.youtube.com/watch?v=JDISYcizEv0> <https://www.youtube.com/watch?v=drMDxAez4sM>



[https://www.zenbycat.org/blog/how-to-give-injections-for-fip-drugs?fbclid=IwAR2eIzE9JJAfVIRayTnsQ3wUWt21M79Msl4\\_bt4seZPdcwtw\\_pGGm\\_O58m0Y](https://www.zenbycat.org/blog/how-to-give-injections-for-fip-drugs?fbclid=IwAR2eIzE9JJAfVIRayTnsQ3wUWt21M79Msl4_bt4seZPdcwtw_pGGm_O58m0Y)

### Q: What are the side effects of GS?

**A:** The only known side effects of GS are pain during injections and the possibility of skin lesions forming at the injection sites.

### Q: How painful are the injections?

**A:** The pain reactions are different from cat to cat and can also vary from brand of GS to brand. There is no way to know in advance how your cat will react so please be prepared when injecting for the first time. One person to hold the kitty and one to inject works well as do “burrito” wraps, injection bags and the use of the mild sedative Gabapentin 2 hours before injection time. This can be dispensed by your vet.

### Q: My kitty is on GS and now has diarrhea. What should I do?

**A:** We recommend giving B-12, bland food and a probiotic. Pumpkin puree is also okay to give. Fortiflora or Provable are two probiotics. If the cat seems to be getting dehydrated, giving sub-cutaneous fluids is okay too. Please check with your vet as well.

### Q: I've heard L-lysine is good to help fight other viruses. Can I give it to my FIP kitty?

**A:** L-lysine should **NEVER** be given to a cat with FCoV infection or FIP because it is antagonistic to arginine which is essential for immune function.

## FAQ about treating FIP using GS-441524

### Q: What supplements do I give during GS treatment?

A: Many of our members use a variety of supplements during GS treatment to support organ and immune health. Dr. Pedersen believes that if you are using GS, you don't need anything else so "save your money". It's a personal choice and below are some of what our community is using along with GS:



### Q: Can I just obtain the GS in powder form and mix it up myself?

A: You need some degree of expertise and the right equipment to prepare the diluent, adjust the pH, accurately weigh small amounts of drug, suspending it in diluent, and fully solubilizing it by readjusting pH and sonication.

Some of the chemicals such as concentrated HCl are also dangerous in the hands of novices and technically the drug should be handled with gloved hands and with some care. People were having extremely difficult time doing these things and were continually asking advice, which is hard to give to ordinary people with no equipment.

### Q: How do I dispose of all of the used needles or "sharps"?

A: This link is a great resource for finding a sharps disposal location near you: <https://safeneedledisposal.org>

You can also purchase something like this for about \$4 at your local pharmacy and they might even take it for disposal when it's full of sharps!



## FAQ about treating FIP using GS-441524

**Q: Should I continue to use flea/tick treatment for my FIP kitty during treatment?**

**A:** No. Do not use Revolution, Stronghold, Selamectin or any topical and spot on.

Frontline or other chemical flea/tick treatments while on FIP treatment.

The biggest part of treating for fleas is the environment. Vacuum daily (floors, closets, bedding, anything the cats come in contact with) and wash all bedding.

You can flea comb your cat daily to remove fleas. You can make a mixture of water and apple cider vinegar (2:1) to apply on a cloth and wipe onto your cat daily so the fleas don't want to be on her. Revolution is one of the more safe options, but we would hesitate to combine it with GS for fear of affecting the GS being able to have full effect. You can try diatomaceous earth as well.

**Q: Can I use dewormers on my FIP kitty during treatment?**

**A:** Only if indicated by your vet. Drontal, Strongid and Panacur are believed to be okay.

**Q: How long after completing FIP treatment should I wait to spay/neuter my cat?**

**A:** 3 months.

**Q: Is it okay to give antibiotics when treating my kitty for FIP using GS?**

**A:** Some members have needed to use antibiotics along with GS for secondary conditions.

The fluoroquinolone class of antibiotics such as Baytril, Zeniquin, Veraflox/ Pradofloxacin and Orbax have fluorine so they can get into the brain/nervous system. Because of that, their side effects can cause neurologic symptoms.

Since we are treating very sick kitties, we want to try not to add new symptoms that could confuse treatment when possible.

If your veterinarian determines a fluoroquinolone antibiotic is needed, please follow their direction as there are some infections that must have this class of antibiotic.

Thus far we have seen no adverse reactions with these generally used antibiotics: Zithromax, Cephalexin, Amoxicillin, Penicillin, Augmentin, Clavamox, Doxycycline, Clindamycin

The anti-viral Famciclovir appears to be fine to use along with GS

Disclaimer: No formal studies or testing have been done to determine whether there are any drugs contradicted to be used with GS treatment.

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### ANESTHESIA INTERACTION WITH GS

All vets have drugs they are comfortable with, and a sick cat is a sick cat. There is no fixed prescription for anesthesia that applies to all procedures for all cats. Each cat has a particular set of needs which should be based on their overall health combined with the procedure that will be performed.

Drugs and/or anesthesia type is something that needs to be determined by a vet who has seen the cat. The vets who volunteer in this group cannot determine or advise whether a particular form of anesthesia is appropriate - they have not physically examined the cat and do not have the full chart.

The GS needs to be taken out of the equation because there has not been research on what happens when GS interacts with other drugs. The risk of possible negative reaction is possible with any drug. No one can guarantee anything.

**This website was created by one of the FIP Warriors admins and contains LOADS of helpful information. Please read more here:**

<https://fiptreatment.com/gs-protocol/?fbclid=IwAR0g7NDTzUNQO4OCX811DrJRakFpNG2vWTGPxyD6l24BboruujZdXBFmmNU>