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|  NATUROPATHIC PRODUCT CODE AN036 & AN0 37 AN088 | Pge 39 |
| Hepatic lipidosis (fatty liver), Cholagiohepatitis (inflamed bile duct). General Liver support to help detox from drugs. Hepatitis (inflamed Liver), liver shunt, Hepatic Encephalopathy. |  |
| Last Updated: 17-12-20 **All species and ages**  |

 **~ High Ammonia Levels – use Activiated Charcoal powder - ASAP \*** See page 17

~ LIVER diet for dogs \* See Page 5
~ Liver Shunt program & diet \* See from Page 19-28
~ For Liver Poisoning (from unknown source) Use or request the single homeopathic remedy called Nux vomica 10M ( and vomiting and sometimes seizures)
Did you know that all Drugs (chemical toxins) – affect the liver.

Homeopathic Medicine **HAMPL Liver Detox 36 50ml** *(liver detox)* **HAMPL Hepatitis 37-1 30ml** *(inflamed liver – from viral infection or toxic medications)* **HAMPL Jaundice 45 30ml *(acute****inflamed liver or obstructed bile duct)* **HAMPL Keloid 58** *(cirrhosis)*Homeopathic Dosing **(clear liquid or white pills)**:One dose for all species size: pat in / wet skin e.g. 3 to 4 drops on back of should blades
 – so the fur is wet so it reaches the skin) Pills: crush 1 pill and put in gum of mouth to dissolve (this is more stressful) it does not need to swallow just reach the saliva to be effective. Or add 1 crushed pill to meals and stir into water bowl (filtered water) .  **What frequency of repeats**: Refer to: Label of Bottle.
**Some of the recommended HOMEOPATHICS**(included in our liver homeopathic formulas)
**Fatty Liver Degeneration** - Phosphorus

A tissue salt often recommended to detoxify the liver - **Nat Sulph**, A tissue salt that helps to assimilate fats and promote the flow of bile from the gall bladder - **Nat Phos**.
Regenerate liver - **Flor di Piedro 3X**

Today’s liver problems are more insidious, resulting primary from the accumulation of toxins, chemicals, metals and poisons entering the body through the environment.

\* See page 30 - 53 Symptoms from chemical drugs & damage Liver.
\* See Page 53 - to immediately start anti doting it with Vitamin C

FOR ALL LIVER ISSUES IN ANIMALS
Small meals throughout the day – 10-20% white meat only \* See page 5
*(as your dog may already have a too acidic system -vomiting, nausea)*

DIGESTION PROBIOTICS AND ENZYMES .. Support better digestion and assimilation of foods through the use of probiotics and enzyme supplements

1. REPAIR - **GUT FLORA**
We highly recommending purchasing and using the below supplements to restore and strengthen your dog or puppies **"gut flora defense system"**

 **~ Probiotics Powder**
a good quality one is -  "**ProBiotic 12 Powder" \* 100 Billion CFU’s**  (brand - Seeking Health)  This probiotic can be purchased from Seeking Health website or other websites also sell this. **\*** Mix some ¼ teaspoon of the powder into pets meals or some plain yogurt and offer or oral syringe.  **Note:**whether your pet has an infection or not (parasite, bacteria or fungal)  or past or present Antibiotic drugs use, your pet needs this foundation of healing in the gut
and
**~Colostrum powder   or   chewable tablets (yummy*)*
Colostrumhealth 100% pure Colostrum Powder**[**http://www.colostrum.gen.nz/**](http://www.colostrum.gen.nz/)**Order online.**Colostrum can repair leaky gut syndrome which can be the cause of constipation.  \* if constipation is caused by a deficiency in minerals -  potassium and magnesium.

**\*\* It takes 2 months to fully restore gut flora \*\*

Note:**whether your pet has an infection or not (parasite, bacteria or fungal)  or past or present Antibiotic drugs use, your pet needs this foundation of healing in the gut.

**AVOID**  -  Antibiotic drugs and other toxic drugs, sprays, and products.

Vaccines severely deplete the body of vitamin C.  Either get a **titer test** done to prove your dog or cat is still fully covered or /and use the homeopathic oral nosode vaccines.
If need to take antibiotics, use the potent and safe herbal antibiotics **HAMPL Infection Fighter 71 50ml liquid.**

2. ENZYME - DIGESTION - MALABSORPTION

 Malabsorption syndrome **Example:   “Use a little 'Organic Apple Cider Vinegar " (not white vinegar)** to every meal given.
Toy dogs, small dog:   10 drops diluted in a little water and it to a meal
Med dog:    Dilute 1 teaspoon in a little water then add it to a meal.
large dog:   Dilute 1 tablespoon in a little water then add it to a meal.
MED TO LARGE DOGS - Can also stir in a tablespoon or more to water bowl or farm trough.

4. DETOX
~ **Chlorella Greens Powder Supplement**~ **Activated Charcoal Powder** *(WHICH IS in the AN110 Chemical Detox Set) \* See page 17*
Detoxing Supplement (which is part of the detox set Pet Cleanse 42 drops or Chemical Poisoning 110 drops)Using **Activated Charcoal powder.  This powder can detox over 4,000 toxins a day.** Research studies have shown that activated charcoal decreases the toxic load on the body by over 60% with daily use.  This is due to its ability to bind and grab up chlorine, pesticides and herbicides, bacteria, viruses, yeast, parasites, toxic chemicals, and endotoxic metabolites.

 **PUPPY/CAT**give approx: 1/4 teaspoon of the powder to meals or milk drinks.
**ADULT PETS**:  use 1 capsule of the powder or 1/2 a teaspoon in meals and/or milk drinks.
 **TWICE a day for one month**to help detox from the heavy metals from the vaccines.  After a month, one can continue adding activated charcoal to meals daily for optimum health

\* You should be able to order online or buy from a health food store the capsules or powder.  If previously or are on chemical drugs  or  vaccinations (pet was unwell from) we can "assist in detoxing" as well with the below remedies and as all drugs affect the liver, we need to repair liver:

~ If my PET needed help, I would use both the homeopathic HAMPL Liver detox 36 drops or HAMPL Hepatitis 37 (A) 30ML drops as well as the homeopathic HAMPL Acute Pancreas72-1 formula.

Cat Health

 Diet plays an important role in the healing of the liver.  **Small, frequent meals which are low in fat.**

You may sometime need to oral feed your cat eg feed 5 cc's at a time, repeat later, otherwise they may throw up, if you give them any more. Feed Human grade fresh kangaroo meat (warm) or fresh warm chicken or turkey mince (pour hot water from kettle over it).No tin food or biscuits.
Small amount of red meat, but white meat is better. **CATS NEED FRESH MEAT
 (and can also feed wet tin food too with raw meat) and are designed to be more acidic system.**

**2**. **Sub-Q fluids**

Give 80ml /cc's of Sub-q fluids (dribbled warm fluids just under the skin) once to twice a day. A friendly vet or hampl can supply the bags of plain saline solution and small needles to give fluids at home.

**3. Daily Nutritional Supplemental Treatment**
(mixed in with food or liquid meals) Suggestion but optional.

**Vitamin B6** (Pyridoxal 5'Phospate) – The active form of B6, an essential vitamin that is not easily
 broken down in pets with compromised livers.

**Vitamin B12** –An important vitamin needed for proper digestion and absorption of food, however if one has a low stomach acid, then B12 or food or nutrition cannot be aborsorbed fully. Use 2-3 drops of B12.

**\* We do not supply any of the vitamins supplements. See iherb.com**

 **Apple cider Vinegar** (brown one) diluted in meals - to help restore stomach acid..
(Even if known to have an acidic pH system we can still have low stomach acid levels)

**4. AN088 HAMPL Liver Health tonic**
a **herbal** liver tonic for longer term liver support.

DOGS Liver support diet ~ For Liver Shunt Dog program diet \*See from page 19-28

Diet for dogs with liver disease is controversial. I have often seen low protein diets recommended, but recent studies indicate that too little protein can actually make liver problems worse. Low fat is also often recommended, but is only needed for dogs having problems with fat malabsorption. Dogs need fat for energy, and again, too little can cause problems.

**A low-purine (not low-protein) diet is recommended for dogs with liver shunts**

In general if your dog is already on a home prepared foods, no diet changes are needed. **But if** **your dog has -**  seizures, hepatic encephalopathy (HE), Chronic Active Hepatitis (CAH), Cirrhosis of the liver, fat malabsorption, liver shunt and Liver Cancer also, but see Cancer Sheet to include in healing.

**Dogs with acute, severe or chronic liver disease will benefit from dietary changes, supplements and herbal and homeopathic medicines (all non toxic natural), but dogs with mildly elevated liver enzymes do not require a change in diet.**
**Good Liver Health -**

supportive supplements, herbs and homeopathy can be given at any stage if desired. We recommend using a liver tonic at least twice to three times a year for optimum health and prevention from liver conditions. Especially needed for dogs over 6 years of age. When digestion absorption, organs and circulations starts to slow down and toxins accumulate.

Please remember that **mildly elevated liver enzymes** do not necessarily indicate liver disease. Elevated liver enzyme readings can sorted with either using the Herbal Liver Health Tonic or / and Homeopathic Liver Detox. Keep in mind to protect the liver and kidneys use alternative products to chemical ones.

In general if our pets (or ourselves) have symptoms of foods not digested properly can cause indigestion, constipation, diarrhea and bloating. They are also signs that the body is trying to detoxify itself. This is why when you want to improve liver and kidney health, the number one system to work on is your dog's intestinal tract.

First thing to help the liver is to regain a normal healthy digestive system through a healthy diet and whole food supplements.  This is because the digestive system is the body's first line of defense and if it is not working properly, the burden will fall on the second line of defense which is the liver

However, less meat will help reduce the acidity in their system which can also make them itch a lot.

E.G

**Diet:**  Incorporate less meat if already feeding cooked or raw meat (white meat) meals.

Two weeks of 50/50 Veg  &  Meat Ratio with fruit meals separate.

**Incorporate mono meals**.

 Eventually leading to a 3 x week raw meat meals if you can. If not just alternate between fruit meals and veggie & meat meals.   In general, we see dogs do better on 25-30% raw meat, 10% meaty raw bone (e.g lamb shank or chicken necks if a small dog), and the rest Veggies and Fruits.

**Other**:  Organic Tumeric powder, Coconut oil, Dates, Raw Carrots, Dried Fruit (no sultanas or raisins) Nuts, Seeds, Squashes, Spinach, Kale, Lightly Steamed Broccoli etc.

**Pulverise all the veggies for optimal absorption.**

**AVOID** acidic type vegetables, no pork, wheat or kibble foods, dried pigs ears etc.commercially sold type of dried treats.

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| **Homemade Applesauce** is one of the most profoundly rejuvenating, revitalizing foods for your liver cells. **Apples**: Provide living water to support the liver’s hydration capabilities, so it can store the water and then release it back into the bloodstream when dehydration or dirty blood syndrome occurs. The fruit acids in apples help cleanse the liver by dispersing toxic films that build up inside its storage banks. Apples starve out bacteria, yeast, mold, other funguses, and viruses from the intestinal tract and liver. Great for dissolving gallstones.**Dates:**  The intestinal tract builds up mucus due to low hydrochloric acid and bile production, and that can slow down absorption of nutrients into the bloodstream. Dates expel and eliminate mucus, especially that produced by pathogens such as bacteria and fungus, from the colon. The sugars in dates feed the liver; they’re a great source of glucose for recovery and restoration that allows the liver to maximize its over 2,000 chemical functions.**Celery:**Its undiscovered subgroups of sodium that I call cluster salts protect the liver’s cell membranes and inhibit the growth of viruses, bacteria, and fungus. Celery restores the liver’s bile production capability as well as the potency and complicated structure of the bile, which in most people is completely imbalanced. Its cluster salts bind onto free floating poisons and toxins inside the liver and flush them into the bloodstream, remaining bonded so that the troublemakers leave the kidneys or intestinal tract safely. Celery purges the liver while bringing down liver heat to a safe level. It’s the ultimate gallbladder rehabilitator, helping to dissolve gallstones over time, making them small enough either not to cause harm or to be able to pass through the bile duct. Celery’s sodium also expands the bile duct so it’s not restricted, in case a large stone does breach. **Liver Rescue Applesauce**

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| Ingredients:1 to 2 red apples, diced1 Medjool dates, pitted (optional)1 stalk celery, chopped (optional)¼ teaspoon cinnamon (optional) |

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Allergy reactions The skin is the body's largest organ and is used as a backup system for eliminating toxins.

So we can see itchy ski, red skin and even breaking in little sores on the skin. The endocrine glands have to take over some of the cleansing process, especially the thyroid if the liver and kidney function is compromised and as a result the skin becomes the alternative way to get the daily toxins out until the liver and kidneys start to function well. Itching and other skin issues will only stop when the natural channels of elimination (liver, kidneys and intestinal tract) function normally through a real food diet and good whole food supplements.

So what about the FOOD we feed our pets:

The so called balanced canned and dried foods made to feed dogs today and touted by pet food companies and health professionals as being healthy is the main cause for bladder, liver and skin ailments facing our pet population today.  The nutrients in these foods don't even come close from a chemical point of view to what the complex configuration of nutrients in real foods are.

So is it any wonder that our dogslivers and kidneys are failing in epidemic numbers today?  But if your dog is on a raw or cooked meat veg diet **they may be eating too much animal protein.**

**A lot of acidic in red meat as well.**

**Canines and humans need to be on the alkaline pH system, compared to felines who thrive well on a more acidic system, this is why they are meant to eat mostly all meat.**

By changing your dogs diet to an easily digested real food diet and by giving him real food supplements to support the digestive tract and liver, you are addressing the causes of digestive, kidney, bladder and liver stress.

 **Dogs need a real food diet. This is what his body is designed to thrive on.  But it also must be the RIGHT foods and include raw veggies and raw fruits. 100% real food home made diet of simple ingredients like meat/fish, raw vegetables, raw fruits, raw nut butters, etc in proper ratios for liver healing and a lifetime of health.**In general the diet your dog has been on may be causing too much acidity - cooked or processed foods -in his body so when we change the diet, we make sure that the diet is an acid/alkaline balanced one.  The concept of acid alkaline is such an important concept when it comes to dogs' health and yet it is not being addressed at all by health professionals.  We will email you an article so you can read more on this topic if you wish.

Also the diet has to be an enzymatically alive diet and that's something you'll learn more about in the future as we help you change his diet.

**This principle is the number one cause of degenerative disease and a shortened lifespan. To summarize, the solution is to change the diet to a real food diet full of active enzymes, and organic nutrients.**

**Dogs with liver and bladder problems must have their digestive system supported fully with enzymes and probiotic supplements.**

They also must eat a real food diet because the protein in real foods is easy to digest and with enough veggies and fruits, **dogs liver enzymes and bile acid levels cannot go out of balance**, and their urinary tract remains at the proper pH to avoid infection and bladder stones.

Also the production of ammonia is kept low to avoid problems and so that detoxification can happen and neurological symptoms disappear.

**AVOIDING chemicals as they continue to damage (affect) the liver and liver function.**

A liver that is “Congested”

Having a “Congested Liver” is also common in Pets & Humans. (there is not test to check this)

Weak liver function and resulting congestion leads to a rise in the level of internal toxins, as toxic metabolites remain unprocessed and thus unable to be broken down into less harmful metabolic byproducts for excretion out of the body. There are no blood tests that show that we have a congested liver or poor liver function.

Signs and Symptoms of Liver Congestion

**Accumulation of such toxins within the liver can be responsible for a myriad of symptoms.**

They include fatigue,
anger,
psoriasis,
neck and back tension,
acne,
acidosis,
skin allergies
eczema,
joint and muscular pain of unknown origin,
cramps,
dizziness,
pulsating headaches,
insomnia,
depression,
anxiety,
hormonal imbalance,
brain fog,
food sensitivity,
intolerance or sensitivity to drugs and nutritional supplements.

A weak liver may also weaken the kidneys and contribute to digestive problems, including lowered vitamin B12 absorption.

When the liver is chronically congested, sediment often settles out of the bile and accumulates in clumps that **resemble stones or sand in the gallbladder**. As a result, the gallbladder can become clogged as well. Pre-existing stones can further aggravate the situation as they become lodged in the bile duct leading to the small intestine. Congested Liver is common in Lyme patients and other chronic illness.

**TREATMENT:** Taking **HAMPL Liver Health Tonic** 88 drops to help cleanse and repair liver function. Starting with min dose and slowly build up to recommended dosing.

Seizures and your Pet

 It is a classic sign of metabolic dysfunction borne of mineral deficiencies, if it was not
 caused from chemical poison side effects (worming, ear mite, flea, heartworm products)

 See AN008 Feline or AN026 Canine – Equine Seizure Information and support with treatment.

And the homeopathic Chemical Detox 110 Set of 2.

 **.. what chemical drugs and products damage Liver and side effects of certain drug can cause seizures**

Hepatic Encephalopathy(cognitive dysfunction syndrome)

Hepatic encephalopathy (HE) is the name given to **neurological problems** caused by the build-up of **ammonia in the dog's system due to liver failure.**

**\*\* Activated Charcoal powder from capsules -  will help with high ammonia levels**.\*\*\*

**What is hepatic encephalopathy (HE)?**

HE is a brain condition that is caused from liver damages such as cirrhosis prevent the liver from removing ammonia and other harmful substances from the blood. The harmful substances build up in the blood and prevent the brain from working correctly. Early treatment is needed to reverse the damaging effects of this condition and restore proper brain function.

\* High Ammonia levels

Bacteria in your gut and in your cells create ammonia when your body breaks down protein.

 Ammonia is a waste product. ... It leaves your body in your urine. But if you have certain health conditions, like kidney or liver failure, your body can't make or get rid of urea.  Here is where not only homeopathics can help but also the Activated Charcoal powder.

The American Journal of Gastroenterology published a study reporting a scientific claim that **Activated Charcoal** can reduce the build-up of nitrogen waste in the body; **e.g. UREA levels (toxic waste) from kidneys or Hepatic Encephalopathy HE conditions.**
Symptoms may include
**tremors, seizures, head pressing, staggering, circling, pacing, blindness, and behavioral changes.** Many of these symptoms have been given a name once a pet gets older, they call it Cognitive Dysfunction Syndrome (old age dementia even), so it was given this name, not really understanding why this was happening, but it was more than often as we aged. But, this is really the liver in trouble, these symptoms or condition is a poor liver symptom.

or

CCD is sometimes called CDS, for **Cognitive Dysfunction Syndrome.**
There isn’t a test for CCD.

However, a Vets will prescribe a sedative for night time, I knew one vet who gave their owner a drug that is normally used as a premed anesthetic drug, they reported to us that they nearly lost their dog, they could not wake him up for 2 days, breathing was shallow at times they thought he had died. The drug Anipryl is the veterinary trade name for a drug called selegiline hydrochloride, also known as L-deprenyl. It is used in humans for treatment of Parkinson's Disease, Alzheimer's Disease.
**Side effects of this drug include (but aren't limited to):**
vomiting
diarrhea
hyperactive/restless
anorexia
staggering
seizure
lethargy.

~ If your dog is showing signs of **CDS / CCD/ hepatic encephalopathy,** it is important to reduce the amount of ammonia in the system. This is when protein restriction may become necessary.
**Red meat** **produces more ammonia** and should only be used in very limited amounts or not at all. Cottage cheese (and other dairy products) and eggs (yolk only) are good sources of low ammonia-producing protein. Even in dogs with HE, you must be careful not to reduce protein too much, as protein malnutrition can result, leading to ascites and other problems.

 **Feeding several small meals daily, rather than one or two larger meals, can also reduce signs of HE.**

One of the complications commonly seen with **advanced liver damages** in dogs is **hepatic encephalopathy** (HE). The liver acts as a giant filter for the gastrointestinal tract (among other roles). After a meal, the circulatory system absorbs all sorts of things from the gut.

Many of these substances, especially ammonia, can adversely affect the brain after reaching excessively high levels in the blood. When liver function decreases to approximately 70% of normal, the signs of hepatic encephalopathy begin to emerge, including:

* mental dullness
* staring
* unsteadiness
* circling
* head pressing
* blindness
* drooling
* coma

These symptoms are usually observed in combination with the **typical sings of liver failure** including … **loss of appetite and weight, increased thirst and urination, vomiting, diarrhea, a yellowing of the skin and mucous membranes, and accumulation of fluid in the abdomen.**

The symptoms of hepatic encephalopathy typically wax and wane throughout the day, often worsening after meals. Therefore, it’s not too surprising that dietary manipulation plays a big role in the management of the condition.

Dogs with **hepatic encephalopathy** should eat a diet with a reduced amount of protein since the byproducts of protein digestion (e.g., ammonia) are responsible for many of the symptoms associated with the disease. Diets should contain just enough protein but no “extra” to ease the liver’s workload.

…. research also indicates that soy protein may be a better at ameliorating the signs of hepatic encephalopathy in comparison to meat-based sources of protein.

**Dogs with advanced liver disease still need calories**, however, which are best supplied by increasing the percentages of high quality carbohydrates and fats in the diet. If your dog has a malasorption problem (which older dogs do have this issue or dogs feed mainly on commercial junk foods) it is vital to help the digestion with the suggested supplements.

 **Feeding several smaller meals throughout the day** rather than just one or two larger meals is also beneficial. This feeding schedule reduces the spikes in deleterious metabolites circulating in the bloodstream thereby reducing clinical signs associated with hepatic encephalopathy.

Sometimes the liver disease responsible for causing hepatic encephalopathy is reversible, sometimes it is not. In either case, dietary management and other forms of natural treatment for hepatic encephalopathy will help dogs liver a long happy life. **Plus add natural supplements for digestion, enzymes, probiotics liver repair, nutrition.**

 Start using the Activated Charcoal powder from capsules will help with high ammonia levels.

Which will be seen with pets with - Renal Failure, CCD is sometimes called CDS, for Cognitive Dysfunction Syndrome or Hepatic Encephalopathy  (liver failure)

 **Can buy capsules on-line for any supplier of these products OR from your local Health Food Store.**

**e.g https://www.iherb.com/pr/Nature-s-Answer-Charcoal-Activated-Purified-Carbon-560-mg90-Vegetarian-Capsules/8151**

 Research studies have also shown that activated charcoal decreases the toxic load on the body by over 60% with daily use. This is due to its ability to bind and grab up chlorine, pesticides and herbicides, bacteria, viruses, yeast, parasites, toxic chemicals, and endotoxic metabolites.

**Endotoxins -** these are substances that are produced within our body. This would include toxins produced by our gut bacteria, molecules formed by incomplete liver conjugation and ammonia which can arise due to inadequate kidney filtration. **Kidney or Liver Cleansing to bring down HIGH AMMONIA LEVELS ( toxic waste)**

 Both the kidneys and liver are critical to filtering and removing toxins through the urinary system. Additionally, it takes urea out of the body and when it is functioning poorly it can lead to elevated ammonia, which is extremely toxic to the brain. Poorly functioning kidneys are also major contributors to blood pressure problems and cardiovascular disease. It also absorbs toxins in the kidneys and livers preventing a toxic overload, and at the same time allowing the vital organs (.. liver and kidneys) in the body to function normally. It also can help to eliminate the toxins in the body because it stimulates the bile flow,

**SUGGESTION**

**(in conjunction with homeopathic Kidney or Liver remedies on body - repeating up to six times a day-if acute)**

**ACUTE KIDNEY or LIVER FAILURE**

Open one capsules and pour powder into a large syringe 30 or 40ml oral syringe, draw up with water, to fill syringe and shake well to mix best as possible to mix.

\* Toy dog or cat : Oral syringe 5ml three times a day - smalls sips till 5ml is taken.

\* small dog : Oral syringe 10ml three times a day - smalls sips till 10ml is taken.

\* small to medium size dog: Oral syringe 15ml three times a day - smalls sips till 15ml is taken.

\* medium to large dog: Oral syringe 20ml three times a day - smalls sips till 20ml is taken.

 **OR**

**CHRONIC KIDNEY OR LIVER CONDITIONS**

 Starting adding activated charcoal to your pets daily meals. e.g. get the "activated charcoal" in powder form. Open "one" capsule and add the powder from the one capsule into a 1/2 cup of water, stir each time before using. Then add 2 tablespoons of this in morning meal and another 2 tablespoons in the second meal. Continue doing this till you run out. When no more liquid is left, go to another capsule and open it and add the powder into 1/2 cup of water, stir each time before using. Then add 2 teaspoons to every meal given and so on continue to until all capsules are finished.

Or

Chronic Active Hepatitis (CAH)  **liver inflammation** causing early death if not treated with home prepared diet and nutrition and supplements.

 **This condition is often seen in Dobermann Pinchers (terrier breeds)
and other terrier breed e.g.** *stafforshire terriers, bull terrier, silky terriers, cairn terriers, jack russel****,*** *boston terriers, toy fox terrier, amercian pit bull terrier, Bedlington Terriers, West Highland White Terriers, Skye Terriers,*

 CAH is a progressive inflammation state that cause the liver to break down to the point of liver failure and death. Females are prone than males, and it can show up at any age. The average age however is middle aged, 4 to 6 years old. Most likely this is a genetically inherited disease which results in toxic levels of copper to be stored in the liver. It is not an infection disease, it is hereditary. If the disease is in one of the parents, it may or may not be in the litter.

 **CAH Symptoms**

 Symptoms usually show up when almost half the liver has already been destroyed.

With CAH, the liver cells die and are replaced by scar tissue. Proteins are release as well, that will elevate ALT values. It largely effects the blood vessels leaving the liver (the liver is a major filtering organ).

* Intermittent recurrent abdominal or gastrionintestional upset:
	1. **Loss of Appetite**
	2. **Vomiting**
	3. **Diarrhea**
	4. **Constipation**
* Lethargic
* Fluid Accumulation in the Abdomen, Abdominal distension
* Pale or Gray Feces
* Orange Urine
* Jaundice to skin, gums and white of eyes
* Abdominal Pain
* Weight Loss and loss of body condition
* Excessive (Increased) Thirst and Urination
* Anorexia

One of the first symptoms to show is, excessive drinking. It may be intermittent. The next common symptom to show is lack of appetite. Vomiting and weight loss may soon follow. As the disease progresses, the gums may begin to turn yellowish in color. It is easy to see in the white's of the eyes. This jaundice stage is brought when the liver is dys - functioning and allowing bilirubins (bile pigments) to accumulate in the blood stream. Weight loss will begin to increase, and body condition will lesson. Fluid will behind to distend the abdomen.

The goal is to not wait, excessive drinking (not to be confused with Cushings Syndrome or kidney Condition) is enough to talk to your vet about. CAH is nothing to wait on. The earlier it is caught, less damage has been caused to the river. Annual testing after you Doberman is 2 years old is advised if you are not providing a liver diet and supplements.

 Prevention

Doberman's often suffer from the hereditary form of CAH. They should not be in any breeding program. With the hereditary factor, it is important to prevent factors that may predispose liver inflammation. Monitoring the liver for signs of toxicity is important. Be aware of administering certain drugs is also very important as many damage the liver. Feeding a good home prepared diet and supplements will help in keeping your dog fit and not over weight with a long life. Avoid chemical drugs that cause damage to liver. **All drugs affect the liver and kidneys.**

**]**

 What can I do to help protect my dog’s Liver?
 **Liver Healthy Diet**

 Need to provide all the necessary nutrients which may be lost do to the liver the liver not functioning well. We need to replace these without over working the liver. Top quality protein provides the essential amino acids as an easily digestible carrier which will not produce high levels of ammonia during digestion. Cottage cheese is a good one! It is better to **feed** **several small meals a day** rather than one or even two, if possible. I would recommend feeding **moderate amounts of both high quality protein and fat.** See further down.

What to be aware of – Liver damages from **HIGH AMMONIA
Meat tends to produce ammonia**. **Commercially made Pet foods** – contain cereals and poor quality protein, soya, corn gluten, corn, rice, yeast, brewers yeast, soy oil and harmful additives and food dyes **HIGH COPPER**
These harmful additives in pet food have a high copper content, causing “**copper toxicosis”** in certain breed of dogs. **COPPER TOXICITIES - seen in** Dobermans’ and Terriers **Example:**  Terrier breeds and Doberman “pinchers” (mean terrier) **cannot metabolize copper** accumulation in the liver.

These breeds and other dogs with liver damage, if continued on a commercial dry or wet food diet (poor quality food) will die because too much copper accumulating in the liver causing liver failure toxicities or CAH.

High levels of complex carbohydrates helps keep metabolism up. Fat is needed, but should be kept low.

* Nutrients and adequate energy to fulfill basic requirements
* Limit liver damage by preventing accumulation of copper and ammonia
* Support liver cell regeneration with herbal liver support formula – added to meals.
* Minimize possible complications – avoiding chemical drugs of any kind.

 Protein is ESSENTIAL. Dogs with liver disease often have less protein being broken down, resulting in loss of energy, they therefore need more protein.

**Top quality protein** provide essential amino acids in an easily digestible carrier that will not produce high levels of ammonia during digestion.

 Copper related liver toxicities.

 Copper is not a nutrient that many owners contemplate, until it is associated with disease. In health, copper plays a role in the formation of a dog’s bones, connective tissue, collagen, and myelin (the protective covering of nerves). Copper also helps the body absorb iron, making it an important part of red blood cell function. It also acts as an antioxidant, is a part of many enzymes, and is necessary for the formation of melanin, the pigment that darkens hair and skin. **Copper is found in meat, liver, fish, whole grains, and legumes and is typically added as a supplement to commercially prepared foods.** Copper deficiency is extremely unlikely if a dog eats a nutritionally balanced diet. Problems are most often associated with copper excess, not generally from an improperly formulated diet but instead due to inborn errors of metabolism that eventually cause too much copper to accumulate in the liver. At excessively high levels, copper results in oxidative stress, inflammation, and eventually to liver scarring (cirrhosis) and failure. Liver disease associated with abnormal copper metabolism has a strong genetic component and is seen most frequently in **Bedlington Terriers, West Highland White Terriers, Skye Terriers, Dalmatians, Labrador retrievers, and possibly Doberman Pinschers.**

Symptoms can include loss of appetite, weight loss, depression, jaundice, vomiting, diarrhea, increased thirst and urination, accumulation of fluid within the abdomen, and behavioral changes. Liver disease can usually be diagnosed based on the results of blood work but determining that copper is responsible requires liver biopsies that are evaluated using special stains

Copper - liver Toxicities Supplement Treatment **… for this type of liver health condition centers on reducing the amount of copper
that gets stored in the liver.**

Chelating agents like trientine or D-penicillamine bind to copper and aid in its excretion from the body.
But it is better to use all natural chemical free treatment like for example: **Zinc as it** changes the way in which copper is absorbed and metabolized and ameliorates its toxic effects – copper dumping.
Use a non toxic supplements, herbs and homeopathic as a prevention or treatment which would be:

**1. Molydbenum** will help release copper build up toxicities.
Add 1 drop daily in meals of the liquid Molydbenum by NutriCology from USA. From iherb **2. Magnesium** (ReMag Magnesium solutions) Or Magnesium Glycinate powder. **3. Zinc Picolinate** 15mg add one powder from a capsule twice a day. A pinch for a toy dog or cat I get these on-line. `**Zinc** changes the way in which copper is absorbed and metabolized and ameliorates its toxic effects – copper dumping.

**4. Amino acid** [**l-arginine**](http://www.healingwithnutrition.com/aminoacid.html) **supplement** may be helpful in reducing **ammonia** that can accumulate with liver disease. Add a ¼ teaspoon in daily meals for small to med size dog.

**Herbal formula**

**5. HAMPL Liver Health Tonic (AN088)** – herbal liquid formula that is added to meals daily – herbs that will help strengthen, detox and support the re generation of the liver cell tissues. Refer to label on bottle

**Homeopathic formula**

**6. HAMPL Keloid - Scar Tissue formula (AN058) (tissue scarring or cirrhosis)** – homeopathic formula that softens and dissolve keloid tissue damages. Refer to label on bottle.

“Dietary” therapy plays an important role in managing “copper” associated liver disease.

The ideal food is low in copper, high in zinc, high in B-vitamins (which are often deficient with liver disease), and contains adequate but not excessive amounts of high quality protein since eating too much protein can adversely affect brain function in dogs with liver disease. The diets should be tasty enough to encourage dogs to eat and nutrient dense so that pets with marginal appetites don’t have to take in large volumes. Feeding multiple meals throughout the day is often necessary to maintain a dog’s body condition.

 Non-protein calories some what prevent the use of proteins for energy and reduce the need for the body to create glucose in the liver by converting protein molecules (gluconeogenesis). Energy normally comes from fat, and it is a concentrate source. 30% of fat in the diet can be easily tolerated with dogs with liver disease.

 Fiber can help a dog system out, as a preventative and with the liver disease. Soluble fiber such as beet pulp lowers the production and absorption of ammonia and helps the growth of beneficial bacteria. Fiber also helps the dogs system get rid of bile acids. (the Liver herbals will also provide this) Insoluble fibers help dog's faeces have a have a normal transit time, preventing constipation and bind toxins. Eg. Soak Chia Seeds over night, and add a tablespoon to daily meals.

Some good foods:

Cottage Cheese, Yogurt (proteins easily broken down)**,** Eggs (yolk only)

White Fish**,** Oatmeal (soluble fiber will help remove ammonia)**,** Reduce sodium intake.

 Foods to avoid:

 **HIGH AMOUNTS COPPER** Organ meats (esp beef liver), commercial pet food.

Lamb, pork, duck, and salmon are high in copper

**MODERATE AMOUNTS** - Turkey, Chicken and other fish have moderate amounts

**LOW AMOUNTS** - Beef and eggs

AVOID these minerals – which are found in commercial wet and dry foods. **- Potassium, Sodium, Copper**

LIVER SHUNT

The presence of a liver shunt in your pet means the blood flow to and through the liver is compromised.

There are two primary types of liver shunts:

* Intra-hepatic (inside the liver)
* Extra-hepatic (outside the liver)

Liver shunts are typically a problem of dogs, though cats can also have the condition.

How Liver Shunts Develop

A liver shunt called the *ductus venosus* is actually a natural development while a puppy is growing inside the mother's uterus. Interestingly, during gestation, puppies' livers aren't functional. The mother's liver carries the detoxification burden for her body and her litter while in utero.Toward the end of gestation, the ductus venosus is supposed to close, insuring the puppy's liver is functional at birth. If the shunt doesn't seal itself off before birth, the puppy is born with an open shunt called the patent ductus venosus which is an intra-hepatic shunt.

An extra-hepatic liver shunt is a genetic anomaly in which the blood flow to the liver is rerouted by an abnormal blood vessel outside the organ.This type of shunt also develops in utero. Even though the ductus venosus closes as it should prior to birth, the shunt outside the liver remains open, compromising blood flow to and through the dog's liver.

Signs Your Dog Might Have a Liver Shunt

Symptoms of the presence of a liver shunt are also symptoms of a poorly or non-functioning liver. The liver's job is to distribute protein so the puppy can grow, and also to detoxify the blood.
A puppy with a shunt will show signs of toxicosis from central nervous system depression.

Symptoms can include:

* Stupor
* Vomiting
* Diarrhea
* Lethargy

In very serious cases, toxins in the blood cross the blood-brain barrier resulting in seizures and other significant central nervous system crises.

Another sign of the presence of a liver shunt is failure to thrive. A puppy that isn't thriving will have lack of physical growth, poor muscle tone, a tendency to sleep a lot, and will generally appear lethargic and underdeveloped compared to his littermates.

Larger dogs are more prone to intra-hepatic (inside the liver) shunts, including the following breeds:

* Australian Cattle Dogs
* Labrador Retrievers
* Australian Shepherds
* Old English Sheepdogs
* Samoyeds

Shunts outside the liver, extra-hepatic shunts, occur more commonly in small dog breeds, with Yorkshire, Terriers at the very top of the list.

Other small breed dogs with the tendency:

* Maltese
* Dachshunds
* Jack Russell Terriers
* Shih Tzu
* Lhasa apso
* Cairn Terriers
* Poodles

**Diagnosis Through Bloodwork**

The diagnosis of a liver shunt can be difficult. Failure to thrive in puppies is a tip-off, but often in milder cases, there aren't clear cut signs of the condition. Blood test results that can point to the condition include a low BUN (blood-urea-nitrogen) level, which is a measure of kidney function.

Another tip-off is low albumin, a type of circulating protein. Liver enzymes such as ALT and AST might be elevated, indicating damage to the organ.

The best measure on traditional blood work of a possible liver shunt is a liver function test called bile acids.

Bile acids are produced naturally by the liver and are stored in the gallbladder. They are secreted as necessary by the gallbladder to help your pet's body process fat. They are then absorbed through the small intestine and recycled back to the liver.

If the liver doesn't have the blood flow necessary to recycle bile acids, the level will be very high in bloodwork. Normal bile acid values are under 20. Elevations, especially levels over 100, can give a good clue that a dog is suffering with a liver shunt.

ALWAYS have a pre-anesthesia bloodwork on every pet. I encourage you to insist your vet do this. Many dogs are spayed or neutered at six months of age, and many vets don't do pre-surgery bloodwork to check organ function on animals that young. It can be a rude awakening to the presence of a liver shunt when it takes your beloved pup two or three times as long as it should to come around from anesthesia, or worst case scenario, he doesn't survive the experience. The liver is the organ that has to process anesthetizing drugs, and if it doesn't have adequate blood flow, your pet's body can't efficiently manage those drugs.

This is an unfortunate way to discover your pet has a liver shunt.
Pre-anesthesia bloodwork is a proactive and much safer way to go. Whether your pet is a puppy undergoing anesthesia for the first time or an adult dog, Ia good vet would recommend a blood tests to insure liver function is adequate to handle anesthesia and other drugs.

Liver Shunts Commercial Diets

designed for liver patients should have a reduced amount of both protein and minerals. A reduction in minerals will reduce kidney stress and the risk of bladder stones, a common condition in dogs with liver shunts.

Dogs with portosystemic shunts (PSS) have specific dietary requirements that are different from dogs with other types of liver disease. While surgery is the treatment of choice, dogs with liver shunts can benefit from a low-purine diet, to prevent the formation of **urate bladder stones** (uroliths). Lowering purines does not require that you feed a low-protein diet, which would be contraindicated. It is important to feed proteins that are high-quality and low in purines. High-protein foods that are low in purines include dairy, such as cottage cheese (better to use low-sodium varieties), ricotta cheese and yogurt, as well as eggs. White fish, chicken, and turkey are medium-purine foods that are still good to feed. **Organ meats, seafood and soy have a high purine content. Dalmatians often have a metabolic condition that requires a low-purine diet.**

**Avoid:** foods that contain soy, cauliflower, spinach, asparagus, peas, mushrooms and legumes (beans). Compare the ingredients to those listed on the sites above to check for other high-purine foods. NOTE: All canned and dried foods fed to dogs today are 100% acidic.
**Feed Your Dog More Alkaline than Acidic Foods for Optimum Health and liver support.**

LIVER SHUNT FOOD: Veggie, fruit, fish puree diet along with the whole food supplements, and liver tonic herbs.

**Feeding three times a day.**
Raw meat MUST be balanced with other raw foods.   If you do not want to feed your dog 100% raw foods (we highly recommend it - our first choice), then make sure that it is a combination of home cooked meals and raw foods. The meat can be cooked and most of the fruits and veggies should be raw. Dogs are considered omnivores so fruits and vegetables should be part of their diet to provide them with enzymatically live and mineral rich nutrients.

The digestive system is the gateway to a dog's body and in this chemical age dogs’ detoxification systems can easily be overloaded. The liver is another gateway to a dog's body and can also easily become compromised. The kidneys and bladder are the filtration system that eliminates wastes and excess water, and just like the liver, they can also be overloaded. How can you protect your dog’s digestive and detoxification systems?

 If your dog already has a compromised digestive system with **inefficient digestion or "leaky gut syndrome", i**s there anything you can do to improve the function of their digestive system. And if your dog already has a compromised liver and /or kidneys and bladder, is there anything you can do to improve the function of their detoxification system?

**SODIUM -** Sodium plays a vital role in digestion. Sodium or salt is necessary for balancing fluids and pH in the intestinal tract. We’re talking here about **organic sodium or salt as found in many green vegetables and NOT commercial salt (sodium chloride) or sea salt. Or add Kelp powder.**Vegetables added to your dog’s diet daily offers them organic minerals required to help digestion. Sufficient sodium enables their body to manufacture watery bicarbonates used to neutralize over acid stomach contents. Foods can then be well digested. In addition, the production of hydrochloric acid is often extremely low causing symptoms such as indigestion and allergies.
 **Low stomach acid** - can be addressed with sufficient daily intake of organic sodium in certain vegetables. In addition to improving your pet’s diet by giving him/her fresh organically grown meats, fruits, vegetables and sea veggies and the supplements we will discuss in this page, you have an unbeatable diet and supplement program to help heal your pet’s liver problems and help him/her regain good health.

**Colostrum Powder** - twice daily in between meals or on an empty stomach will help heal 'Leaky gut" syndrome.

Natural “DIET” for Liver Shunt.Adding the **HAMPL Liver Health Tonic drops** “**once a day”** to a meal. Once much better can do more daily repeats of the Liver herbal tonic to meals. (herbal brown mixture). You can also use in conjunction the **HAMPL LiverDetox 036 drops on body or add to water dish** (homeopathic formula – no taste)

Diet – Slow Transition

First Week:

Buy organic celery and zucchini.  No need to peel the veggies.  Juice or pulverize in the food processor or blender 1/4 of a small organic zucchini and 1/2 stalk of organic celery  and put into a glass. Use this mix with some lightly steamed chicken or white fish, and some cooked sweet potato.  **Save the rest of the juice/pulp in the refrigerator for later meals or freeze if necessary to keep longer than a day or so.**

Look here also for a low cost option to vacuum seal a storage container to keep the vegetable puree for longer periods<http://www.bedbathandbeyond.com/store/product/vacucraft-reg-juice-saver-trade-vacuum-sealed-juice-container-with-pump/3249699>

 Combine this for her meals:

2 cups lightly steamed chicken, turkey or white fish
1 and 1/2 cups cooked sweet potato/yam and
1 and 1/2 cups of the raw veggie puree – summer squash, or zucchini or/and strong beans.

Mix well so he has to eat it all together.

\* Put the chicken or fish in a pan with a little water and steam it with a lid on.  The chicken can be almost semi-raw. The fish should be cooked through.

This juice/pulp is going to add some organic minerals into her body to give your dog's liver/kidneys some alkalinity or some electrolyte minerals these organs desperately need.

**The celery is a stronger taste,** so if your dog objects to it, use more zucchini than celery or even no celery at all.  **Cucumber works also.**

Start to add some real raw food snacks between meals this week

Raw foods to snack on, choose from the following examples, and buy everything organically grown if possible:

•     1/4 of a ripe avocado.  Cut into small pieces and give to your dog.

 or 1/4 of a banana.  Cut into small pieces.

 Or ripe papaya, mango, apple or pear without the skin, melons or berries.

**Watermelon is great!**

 or

 Some steamed yam mixed with a fresh piece of avocado.

 or

 1/2 organic medjool date mixed with 1/4 of a banana

 or
 Two tablespoons of ripe papaya mixed with 1/4 of a banana

* Raw carrots or other raw veggie chunks
* Goat yogurt mixed with a little hemp oil
* Raw coconut water

Third week:

**Add more raw pulverized veggies to the meal and reduce the sweet potato.  Eliminate the sweet potato from this meal so that you have a meal of 1/3 chicken or fish and 2/3 raw pureed veggies.**

**Start to incorporate the sweet potato meal below.**

The liver and kidneys work at night when your dog goes to sleep and the idea is to give simple, yet nourishing meals at night (after 6 or 7 PM) so as not to burden the liver or kidneys with any heavy cooked or commercially processed meals.

**We suggest steamed yam or sweet potato mixed with a fresh piece of avocado and raw pureed veggies.** You can add some **sea veggies** like **Wakame, Arami, Nori or Kelp** which you can buy in dried form from a Japanese (oriental) grocery.

Soak for 10 minutes before feeding and discard the water. Sea vegetables can also be added to an earlier in the day meat/veggie meal for added minerals.  **Don't mix meat with this evening meal.**

 **Or Add herbal Bladderwrack (kelp) liquid or Kelp powder to meals.**

Third or Fourth week:

Also during the Third or Fourth Week of the transition diet start to add some pulverized vegetables from the following list:  **cauliflower,
cabbage or
brussel sprouts.**

~ These foods are high in natural sulfur which will speed up the process of cleansing the lymphatic system. Sulfur in the body acts like a glue that binds to toxins and kicks them out of the body fast**.
Do not add these foods until the third or fourth week.**

Also in the Fourth WeekALSO start adding the HERBAL HAMPL Liver Health Tonic extract with the main meals Refer to Bottle for dosage amount of drops per dog size.

We leave it up to you what quantity to feed as every dog is different.  You may find that you feed a higher quantity of food with a real food diet.  Your dog may act like they are hungry all the time, but this is likely just that their body is craving real foods.

Once your dog feels what these real foods do in their body they likely will want more of them.  They are not necessarily hungry, they just always want more food because it makes them feel good.

**Experiment with different portions and add more food if you think your dog needs it.**

Don't overfeed as this takes energy away from healing but don't underfeed also.

The most important thing is your dog is getting 100% real foods that are mostly raw (fruits and vegetables).

**Dogs will naturally be leaner on a real food diet.**

Dogs that are underweight can lose some weight and then start to gain weight.  They initially lose weight because they are getting rid of stored toxins from the commercial food diet.  But then they will start to gain.  Dogs that are overweight will start to lose weight.

 **In both cases, the weight will stabilize at your dog’s ideal weight over time.**

We can also start to add some calorie dense foods such as raw or cold pressed organic coconut oil, organic hemp oil, goat yogurt, raw nut butters, etc.

These foods will also be in our ongoing feeding guidelines **HAMPL Healthy Diet Approach for Dogs.**

Once you get to the end of the fourth week of this slow diet transition, we then are able to go to the standard natural diet prepared meals for canines.

Coconut water

 **Coconut water** is the ultimate natural "sport drink" with natural electrolytes.  It is a very alkalanizing water and very healing.  Your dog may also like the coconut meat which a lot of dogs crave.

**The coconut water is a great way to keep him hydrated if he is not eating.  It will also help to alkalanize the system and clear ammonia and toxins from the body.**  Packaged coconut waters have almost always been heated to high temperatures which reduces natural enzymes and nutrients so we like to go to the young coconut itself if possible.

One brand of raw bottled coconut water is mentioned below called **Harmless Harvest**, available at bigger health food stores like Whole Foods Market.

There is a brand of raw coconut water available in the UK is called **UNOCO**.

For Australians go to this website and search were its available in your town. https://rawc.com.au/where-to-buy/

There are two types of coconuts, the one with the brown shell and the one with the white husk shell.  The one with the white shell is the young coconut or baby green coconut (Thai coconut) that we recommend. You can find them at a Whole Foods type of store or an Asian market.  The white husk is cut so that it is flat on the bottom, round on the sides, and with a pointed top.  It is then wrapped in cellophane.

It's not so easy to cut open.  Get a serrated type knife and go in about one inch from the flat bottom side of the coconut husk and start cutting.  Cut all the way through and high enough so you can see a dark spot in the middle of the coconut that indicates the weak spot in the shell that will allow you to dig a hole.  Get a flat knife and carve a hole in one of the soft eyes of the coconut and that's how you get the water.  Then when you empty the water into a glass or jar, get a pair of pliers and start from the hole, cracking around it until you open a bigger hole that you can put a spoon in there and scoop the meat out to eat.

The water is not clear.  It is usually a bit yellowish and that's normal.  If the meat is too pink in color don't feed to your dog.  (If the Harmless Harvest bottled coconut water is pink than this is fine).  The coconut meat is supposed to be soft and white but it will vary from coconut to coconut.  Sometimes the meat is hard but is still OK to feed it for breakfast or snack.  Most dogs will go crazy for the taste of coconut meat.  Coconuts have anti germ ingredients so that's really good for the bladder and kidneys.

The coconut water is also VERY healing and you can see if your dog will drink it.  If they won't than drink it yourself.  You can also syringe some of the coconut water into the side of your dog's mouth.

This is especially good if they are feeling poorly or sick.

**\* Here is a 4 minute video about how to get into a young**

 **coconut**<http://www.youtube.com/watch?v=r6fzn-8qGyE>

**Alternatively, there are now raw coconut water bottled products coming on the market.  One of these brands is Harmless Harvest.**

You want to make sure these products have not been heated during processing (most have been) and we have heard good things about the Harmless Harvest.  You can find this at Whole Foods or similar stores  possibly at smaller health food stores depending on your area.  We always like to go to the young baby coconut itself if possible as it is fresh and you get the coconut meat as well, but the bottled Harmless Harvest product is an alternative.

**See if  your dog will lap up some coconut water.  If not then syringe some in the side of the mouth**.  **It is a food, so don't worry about giving too much.**

It doesn't replace his drinking water but is used in addition to it.  He may also like the soft coconut meat in the young coconut.  Coconut water is very healing. It is good for you as well.  Increase the use if detoxification symptoms appear.

**Another thing to get at the health food store is some raw coconut oil and start this anytime.  A good brand is Artisana if they have it.**Try to get one that says RAW coconut oil so that it hasn't been heated.  It becomes a liquid at about 80 degrees so you can heat it very gently over VERY low heat or just use it solid in meals.

**Start with 1/2 teaspoon per day and in a week increase to 1 teaspoon per day.**

Great for the digestive tract and immune system.

Ongoing feeding amount is 1 teaspoon per 10 lb or 1 Tablespoon per 30 lb of body weight so you can increase him to these levels.   This can be added to meals or snacks or you can put it in the palm of your hand and let him lick it up if he likes it.  Some dogs lick it off the spoon.

Where do some of these Toxicities come from?

 **Mercury -** Insecticides, pesticides and chemical fertilizers and from canned fish.

**Medical drugs and latex paints**: Eg. Copper from water pipes, meat (feed Additives) copper pots, hormones and water-softening chemicals.

**Medical drugs** including anaesthetics, antibiotics, sulfa type drugs, diuretics, anti-convulsants and steroids, heart worm, flea, wormer and mange drugs (are all insecticides that poisons the blood) – all these toxins cause Liver damage, not just from short term, but many animals have an overuse, Or overdosing on more than one type of drugs at the same time.

Lead - found in canned commercial food, tap water, plus drug insecticides poisons are in (i.e. wormer, flea, heartworm, mange).

\* See page 30 - 53 what chemical drugs and products damage Liver.

Aluminium - Aluminium cans, cookware and food bowls, foil and tap water.

 **CANCER in Pets starts at the liver (damaged/weakened Liver)**

 **COMMERCAIL ARTIFICAL FOODS** are: Known Carcinogenic foods which have food additives, dyes, preserves, by product meats, which ALL contain Liver damaging chemicals FOUND in our pet tin food. Be safe and home prepared meals – inexpensive way. EG. Ethoxyquin is used as a preservative. (EG . IAMS & UKANUBA BISCUITS) and BHA/BHT and excessive copper in pet foods have been implicated in Liver damage and Liver cancers, as have nitrites/nitrates, sodium benzoate (highly toxic to cats Liver) and propyl gallate.

 **Many commercial dog foods are high in copper:**  Some breeds (terriers and Dobermann “pincher” means “terrier”) cannot metabolize Copper, they may acquire “**Copper toxicosis**” which is related to the liver and excess copper accumulating in the organ because it is not metabolized. Dogs that continue commercial diet and do not get alternate treatment can die because too much copper in the system is toxic. ie. Cereals which is high in copper is found in commercial foods as well as kibble (dry foods) are often used as a binder or filler.
 **Tap water:**  The use of **copper pipes** may also add copper to the dog’s drinking water. Always give your pets filtered water, whether they are Terriers or not.

 Commercial Diets too low in protein, high in ash, phosphors, fats and sugars (tooth plaque), also causing liver and Kidney damage.

The found of 'Homeopathic medicine" physician Samuel Hahnemann said to "remove the obstacles to the cure"

HOMEOPATHIC DETOX

HAMPL Chemical Poison 110 30ml plus Activiated Charcoal powder (set of 2)
\* This one is good for not well since taking a drug, or insecticide products, now seizures, paralysed, High liver enzymes etc. Or we can provide the one drug antidote instead of the combination detox.

HAMPL Pet Cleanse 042 30ml plus Activiated Charcoal powder (set of 2)
\* This one is good for pets that have not had alot of drugs or other dangerous chemicals but still need cleasning. High liver enzymes etc.

\* means we have this in homeopathic form of the toxic drug is in the above formulas to aid a detox from this drug.

Or on request we can provide just one drug detox specifically to the drug your pet has not been well since taking it or had acute side effects from within minutes or hours.

If you dont see a drug that your pet is taking or did take, please senda tiny sample of it to our clinic and we will post out the detox homeopathic version to you.