



Pet Food and Feeding Myths

Like any science, pet nutrition is associated with folklore about the feeding of dogs and cats. Some of these ideas have their origins in science, but the facts have been exaggerated, obscured, or misapplied. Others are feeding practices that owners enjoy for emotional reasons but which have potential health risks for their pets. Let's review a few common nutritional myths and separate fact from fiction!

DIET CAUSES "RED COAT"

The "red coat" problem refers to an unexpected change in coat color from almost any normal base color to a red or reddish brown. Reports of "red coat" have occurred for a number of years, but cases are infrequent and inconsistent, making it difficult to study. Among other factors, diet has been identified by some owners as a potential underlying cause of "red coat". **Here are the facts:**

✓ **Nutrient deficiency?** It is true that a dietary deficiency of certain essential nutrients can adversely affect coat quality and color. A deficiency of the minerals copper or zinc and of the essential amino acid phenylalanine can all lead to changes in coat quality and color. However, essential nutrient deficiencies also cause serious health problems along with these coat changes. Copper deficiency leads to anemia, skin lesions, and impaired growth; zinc deficiency causes skin lesions and impairs the immune system; and phenylalanine deficiency can cause neurological problems. In addition, reputable pet food companies have formulated their diets to ensure that they contain optimal levels of copper, zinc and phenylalanine to ensure that these nutrients are not the cause of reported red coat problems in dogs and cats.



✓ **Beet Pulp:** Beet pulp is often targeted as a potential cause of "red coat" in dogs, because of the perception that this ingredient is the color of beets – red. However, the beet pulp that is included in pet foods is not red in color. It is derived from sugar beets (not red beets) from which the sugar has been extracted and is actually light gray in color. Moreover, there is no evidence suggesting a connection between the consumption of beet pulp and a change in coat color in dogs or cats.

✓ **Actual Causes:** So, what might cause a dog's or cat's coat to change color and take on a red hue? We know that red coat can be caused by a number of environmental factors. These include:

- **Exposure to sunlight:** Spending time outdoors can have a bleaching effect on a pet's coat, typically imparting a red hue to black hairs.
- **Porphyrin staining.** Porphyrin is secreted in saliva and tears and is responsible for the reddish staining that is seen around the eyes of some dog breeds with white or light-colored coats. Dogs that self-groom or lick excessively can deposit porphyrins on their coat, causing these areas to stain red.
- **Grooming procedures:** Coat products that contain insecticides can impart a red color to hairs. This effect is most commonly observed in white or light-colored pets. Frequent blow-drying can also cause a dilution or fading of black coat color.
- **Age:** Black hair naturally fades as it ages and typically turns reddish to reddish brown when it is ready to be shed.



COPROPHAGY (STOOL-EATING) IS CAUSED BY A NUTRIENT DEFICIENCY

Coprophy (stool eating) is relatively common in dogs but rare in cats. Contrary to popular belief, the majority of dogs who coprophagize are not consuming a diet that is deficient in one or more essential nutrients, nor do they have gastrointestinal disease. **Here are the facts:**

- ✓ **Stool-eating is not unusual:** Although it may be hard for some owners to understand, stool eating is actually a relatively common behavior in dogs. This is because they are scavengers by nature and readily consume a wide variety of items that are unappealing to people. Most dogs will consume the feces of other species such as horses, cattle, deer or rabbits. Many dogs who live with cats will eat cat feces if allowed access to the litter box. Some dogs also consume canine feces – this is most common among dogs who live in multiple-dog homes or kennels.
- ✓ **Possible cause:** Female dogs routinely consume the feces of their puppies as a way to keep the whelping area and their puppies clean. Coprophagy is also readily learned among dogs within the same household or kennel. In some cases, boredom or confinement in an unclean kennel or cage may be an underlying cause.
- ✓ **Prevention and training:** The best way to prevent stool eating is to limit access to fecal matter by monitoring walks, restrict the dog's access to the feces of wild animals such as rabbits and deer, and keep the yard picked up. In addition, training techniques such as teaching dogs to "leave it" and to reliably come when called are helpful. Providing regular walks, exercise and mentally-stimulating activities for your dog is also essential for preventing all types of boredom-induced behavior problems!

FEEDING BREWER'S YEAST, GARLIC OR ONIONS REPELS FLEAS

The use of either brewer's yeast or the B-vitamin thiamin (one of the yeast's components) as a repellent for external parasites has a long history as a nutritional myth. However, there is no evidence to indicate that feeding brewer's yeast or any other supplement such as garlic or onion has a repellent effect on fleas or any other external parasite. **Here are the facts:**

- ✓ **Brewer's yeast:** Two well-controlled feeding studies with dogs reported that neither brewer's yeast nor thiamin effectively repelled fleas in dogs. Although supplementing pets' diets with brewer's yeast is probably not harmful, it is not effective as a way to prevent flea infestations.
- ✓ **Onion and garlic:** Neither of these foods has any effect at all upon external parasite infestations in dogs or cats. Moreover, feeding large amounts of onion or garlic to dogs or cats (which they do love) can be toxic! Excess consumption of onions can cause a type of hemolytic anemia that may be life-threatening. Similarly, the ingestion of excessive amounts of garlic can cause damage to red blood cells and may lead to anemia. Signs of toxicity may include diarrhea, vomiting, depression, fever, and dark-colored urine. If onion or garlic toxicity is suspected in your dog, veterinary care should be sought immediately.
- ✓ **Use proper flea prevention:** If your pet has a flea problem, talk to your veterinarian about methods for prevention and treatment. Many effective and safe flea control products are available today for dogs and cats.