



Veterinary Cancer Care, P.C.
2001 Vivigen Way
Santa Fe, NM 87505
www.vetcancercare.com

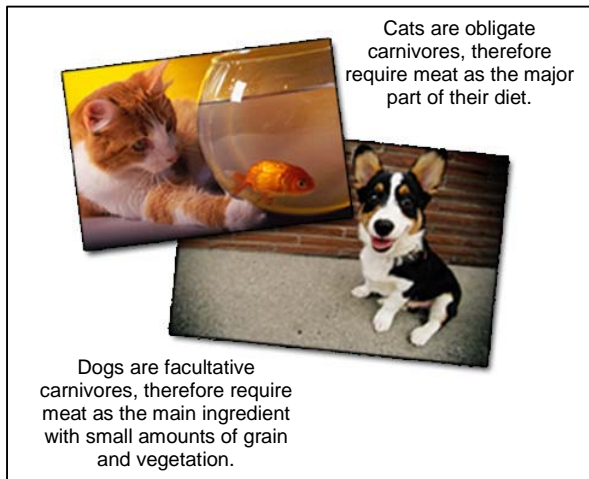
Phone: (505) 982-4492 Fax: (505) 982-1701 info@vetcancercare.com

NATURAL APPROACHES TO FEEDING THE PET DOG OR CAT

As a modern society, we understand the importance of food quality in maintaining or improving our health. We know that we need to eat good quality food in the appropriate quantity and balance for optimal health. Currently, questions are being raised about the nutritional choices we have been making for our pets, and whether they are appropriate. In the 1940's we began relying on pet food manufacturers to provide us with commercially prepared, conveniently packaged, nutritionally complete and balanced foods for our pets. In the latter part of the twentieth century, a counter-movement that shunned this approach has been gaining acceptance. Advocates of both methods of feeding are equally convinced that their method is the best.

Do dogs and cats have special dietary requirements?

In general, cats are obligate carnivores, and require meat as the major part of their diet. Dogs are facultative carnivores, and can fare well with a varied diet of meats, and a small amount of grains, vegetables, grasses, etc. Because of their differences, dogs and cats have specific requirements for certain essential amino acids (components of proteins) and other nutrients. For example, cats require a relatively high level of taurine compared to dogs to remain healthy.



The ideal food for a cat would be a raw, healthy mouse or bird, eaten in its entirety. The ideal food for the 'average' dog would be fresh whole prey, eaten raw, and supplemented with whatever fresh grasses, fruits and berries are in season. However, these choices are either socially unacceptable or impractical for most of our pets. Our goal as caregivers is to provide the next-best choice.

Breed and function of pets must also be considered when selecting the optimal diet. Different breeds of dogs have been shown to have different abilities to digest

the same diet. Breeds of dogs that were developed in specific locations, such as Arctic Circle breeds and some of the 'water' breeds may have adapted to specialized diets that are common in their place of origin. Working pets (hunting dogs, field trial dogs, herding dogs, show cats) require different ratios of proteins and fats in their diets than 'lap dogs' or sedentary house pets. Inbreeding and genetic differences between individuals in each species may result in further need for individualization of the pet's diet in order to optimize health.

What are some of the benefits and drawbacks of commercial diets?

Without doubt, a commercial diet is more convenient, and enough has been learned about basic dietary requirements to prevent overt nutritional deficiencies. Well-established or well-recognized brand names, especially 'premium' brands, have often been demonstrated by feeding trials to support adequate nutrition. In feeding trials, large groups of animals are fed the specific diet and are shown to remain healthy throughout the different stages of their lives.

Pet foods may contain ingredients with sub-optimal quality, and additives are frequently used to ensure a diet meets basic nutritional requirements.. Processing can further degrade the nutrient quality of the food. All pet foods must contain some form of preservatives in order to prolong shelf life. Dry pet foods contain lower levels of preservatives than semi-moist products. The process of canning minimizes the need for preservatives. Products that are 'naturally-preserved' generally have a shorter shelf life because natural preservatives, especially vitamin C and vitamin E, tend to oxidize or break down rapidly. Oxidation is accelerated once the container is opened, leading to rancidity or mold formation.

Relative Preservative Requirements of Commercial Food Types



Pet food formulas are based on nutrient macro- and micronutrient profiles recommended by organizations such as the Association of American Feed Control Officials (AAFCO). These profiles may not be adequate since they, in turn, were developed from National Research Council guidelines, which assume complete bioavailability of the nutrients and leave no margin of error for breed differences, impaired absorption, reduced digestibility of certain foodstuffs, or changes in animal physiology in certain disease states. Nutrient profiles are

meant to provide guidelines for adequate nutrition of an average healthy pet.

Even adequate macro- and micronutrient levels may not guarantee nutritional adequacy. Many pet foods have a cereal base, which may meet nutrient profiles, yet still be inappropriate as the main ingredient in a diet intended for carnivorous species such as dogs, and especially cats. Nutraceuticals, which serve as co-factors and components of essential biochemical processes, are not even considered in the formation of nutritional guidelines. At the very least, pets fed a diet of commercial food should receive supplemental meats and vegetables to provide nutrients that have yet to be recognized as essential components of the carnivorous diet.

Recent concerns have been raised specifically about the practice of feeding dry foods to cats. Dry foods are often fed in a free-choice manner, which may lead to obesity due to over-consumption of grains (carbohydrates). There are concerns that carbohydrate excess in cats may predispose them to diabetes. Finally, cats eating dry diets may have a predisposition to developing urinary problems such as crystals due to the production of more highly-concentrated urine.

What do I need to know about pet food labels?

Pet food labels are only required to show a chemical analysis, which does not necessarily equate to nutrient availability. For example, hair, skin, muscle meat, and soybeans are all composed primarily of protein, but differ in quality and digestibility. A label that claims 'no preservatives added' does not claim the food contains no preservatives, but merely that the manufacturer did not add any. Preservatives may still have been added by a manufacturer's suppliers. To avoid preservatives, look for a label that says 'preservative-free'. A preservative-free food will often have an extremely short shelf-life unless it is a frozen food.

What are the some of the benefits of feeding a home-prepared diet?

Supporters of feeding home prepared diets in pets emphasize the importance of a variety of fresh whole foods for the maintenance of health. The benefits of homemade diets include confidence in the freshness and wholesomeness of the ingredients (especially if you use organic source foods), and the potential inclusion of non-essential or synergistic components such as nutraceuticals in the diet. Many dogs and cats have improved hair and skin condition and increased levels of energy on homemade diets. The exception to this is the pet with pre-existing allergies to one or more components of the diet.

What should I know about feeding a home-prepared diet to my pet?

Home-prepared diets must be adequately balanced to maintain health. The optimal way to avoid nutritional deficiencies and excesses is to follow diet recipes that have been formulated by animal nutritionists or that otherwise meet the basic nutritional requirements for the species. To avoid trace nutrient deficiencies or excesses, it is recommended to vary the source of each diet component (for example, using different protein, vegetable, and grain sources with each batch of food). Because meats and many vegetables are deficient in calcium, it is absolutely necessary to provide supplemental calcium in all pet diets. Most diet recipes include vitamin and mineral supplements. If the food is cooked and these supplements are added before or during the cooking process, they may become denatured or inactivated. This is a particular problem with some vitamins.

What are the risks of feeding a home-prepared diet to my pet?

The ratios of individual dietary components in different recipes will vary considerably, and adhering to one recipe exclusively may cause severe nutritional imbalances. You should also avoid using recipes that are complicated or time-consuming to prepare, since you will be more likely to take shortcuts in the preparation. It is not enough to just feed a diet of table scraps, or to toss some meat, grains, and vegetables into a bowl for your pet. If you do that, your pet could end up malnourished.



Understanding pet foods labels is important.



Great care must be taken when formulating a home-prepared diet for pets to avoid nutrient deficiencies or excesses.

Problems may occur if pet's diets are either under- or over-supplemented with certain vitamins and minerals. The most common imbalances in home-prepared diets involve calcium, phosphorus, zinc, magnesium, and iron. Animals with increased nutritional needs associated with growth or reproduction have different requirements for energy and nutrients, and require enhanced protein levels and optimal ratios of vitamins and minerals to support growth. The advice of a veterinarian with advanced nutritional knowledge is imperative to

decrease these avoidable risks to the pet's well-being.

Some popular authors of pet diets recommend feeding grain-free (or carbohydrate-free) diets, raw meat diets, or bones and raw food diets. Most research evidence suggests that healthy animals are resistant to bacterial pathogens found in commercially available raw pet foods. It also appears that animals are able to digest finely ground raw bones without problems. However, animals with compromised health may be susceptible to illness caused by bacteria, and even healthy animals can shed pathogenic bacteria in their feces, possibly presenting a health risk to their human companions. Raw bones may be fine in a diet, depending on the size of the pet being fed and the size of the bone. An improper size of bone may cause an intestinal accident such as an obstruction. Cooked bones must NEVER be fed, since they are brittle and prone to splintering, which can cause both obstructions and perforations of the intestinal tract.

How can I minimize these risks?

Discuss your pet's diet candidly with your veterinarian, including any treats or supplements that you provide. Have your pet examined regularly so that any early indicators of problems may be detected. Since animals age more rapidly than humans, a good rule of thumb is to have a complete physical examination every six months. In addition to a physical examination, it is prudent to have a biochemical analysis and complete blood count conducted on the pet's blood at these intervals. Periodic radiographs to assess bone density and structure as well as tissue density will assist in detecting overt mineral imbalances such as calcium deficiency.

What symptoms or conditions may be treated with home-prepared diets?

Symptoms such as excessive shedding, itching, skin lesions, and digestive disturbances have been correlated with allergies or intolerances to components of commercial diets, or to the nutritional inadequacy of the diet for a specific individual or breed. Conditions related to insulin resistance such as type II diabetes mellitus may respond dramatically to a low carbohydrate diet.

Animals with specific dietary needs or health problems may show dramatic improvement in their state of health when fed a home-prepared diet that has been nutritionally formulated to meet these needs.

*This client information sheet is based on material written by Steve Marsden, DVM ND MSOM LAc DipICH AHG, Shawn Messonnier, DVM and Cheryl Yuill, DVM, MSc, CVH.
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