

## Hamsters

### Hamster Facts

Life Span:	2 – 3 years
Environment Temperature Range:	65F - 80F
Relative Humidity Range:	40 – 70%
Gestation Period:	15 – 16 days
Litter Size:	5–10 young
Weaning Age:	21–25 days

Hamsters are peculiar little rodents with large cheek pouches and short stubby tails. They have gained popularity as pets since the 1930's. The Syrian hamster's (golden hamster) wild habitat extends through the Middle East and Southeastern Europe.

Hamsters were first introduced to the United States in 1938.

Since their domestication, several color and hair coat varieties of the Syrian hamster have arisen through selective breeding. The three basic groups that now exist include the common "golden" hamster, colored shorthaired "fancy" hamster and longhaired "teddy bear" hamster. All three varieties are popular as pets.

The smaller, dark brown Chinese hamsters (dwarf hamster) are often acquired for pets. These hamsters are recognized for their small size, dark brown color and black stripes over their backs. The Armenian (grey) hamster and European hamster are two other species occasionally kept as pets.

The following information pertains particularly to the Syrian or golden hamster, since they are the most popular, but also applies to the other types of hamsters.

### Diet and Handling

As with any pet, good quality food and clean fresh water must be provided at all times. The precise nutritional requirements of hamsters have not been fully determined. In the wild, these animals feed on plants, seeds, fruits, and insects.

Current recommendations for feeding in captivity are pelleted rodent ration containing 15% - 20% protein. These rations are typically processed as dry blocks or pellets designed for rodents. Seed diets are also "formulated" and sold for hamsters, but these diets should only supplement the basic rodent pellet. Seed diets contain high levels of fat, which can easily become rancid if improperly stored. In addition, when fed alone, these diets often lead to obesity and potential nutritional deficiencies. Other supplements to the diet may include sugarless breakfast cereals, whole wheat breads, pasta, cheese, cooked lean meats, fresh fruits and vegetables, which should all be fed in moderation. Hamsters often hoard their food in a corner of their cage making it seem as though they eat a lot more than they really do.

Water is easily provided in water bottles equipped with sipper tubes. This method also helps keep the water free from contamination. Always make sure that the tubes are positioned low enough to allow the pet easy access. Juvenile hamsters need special consideration to make sure that they are strong enough to use the sipper tube. The average hamster drinks approximately 10ml of water each day. Although this amount is only a fraction of the total bottle volume, fresh water should be provided daily.

**Handling**

Hamsters handled frequently from a young age usually remain docile and seldom bite. These animals can be gently picked up by cupping in one or both hands, and then held against one's body. Be aware that even calm hamsters may bite if surprised or abruptly awakened from sleep.

Hamsters that not have received a lot of attention and handling throughout their lives may be more scared and aggressive. Any animal whose personality is not fully known must be approached cautiously. The use of a small towel or gloves can assist the handler in capturing and restraining such a pet.

Another method of capture involves coaxing the animal into a container (such as a can or tube), which can then be removed from the cage. Once removed from the cage, biting hamsters can be restrained by grasping a large amount of skin at the scruff of the neck. As much skin as possible must be grasped using this method because their skin is very loose. If lightly scruffed, the hamster can easily turn around within its skin and bite the handler.

**Housing and Breeding****Housing**

Several types of cages are available which are suitable for housing hamsters. Many of these units come equipped with cage "furniture" such as exercise wheels, tunnels, and nest boxes. These accessories contribute to the pet's psychological well-being.

Hamsters do very well in solid bottom cages with deep bedding and ample nesting material. Bedding must be clean, nontoxic, absorbent, relatively dust free, and easily acquired. Shredded paper or other paper based bedding is preferred. Be sure that the all materials are free from mold, mildew, or other contamination before using.

Adult hamsters require a minimum floor area of 19 square inches and a cage height of 6 inches. Female breeding hamsters require much larger areas. Optimal temperature range for hamsters is between 65 and 80F. The relative humidity should be between 40% and 70%. Twelve hour light cycles are preferred, with hamsters being more active during the night.

Pet hamsters are generally housed singly. Mature female hamsters tend to be very aggressive towards one another and should never be housed together. Females are also larger and more aggressive than males, thus males usually need to be separated immediately after breeding. Males may also fight when housed together, but tend to be less aggressive than females.

As a rule of thumb, the cage and accessories should be thoroughly cleaned once to twice weekly. Factors that may require increased frequency of cleaning are the number of hamsters in the cage, the type of bedding material provided, and the cage design and size. Cages should be sanitized with hot water and nontoxic disinfectant or detergent, and then thoroughly rinsed. Water bottles and food dishes should be cleaned and disinfected daily.

**Breeding Considerations**

The sex of hamsters can be easily determined. Mature male hamsters possess large prominent testicles which often alarm owners who first notice their size and mistake them for tumors.

Pregnancy is of very short duration in hamsters, lasting only 15 to 16 days. Just before delivery, the expectant mother will become restless and may discharge a small amount of blood from her vulva. Do not handle or disturb her at this time.

Litter size ranges from 5 to 10 pups; larger litters are not uncommon. The pups are born hairless with their eyes and ears closed. They do already have their front teeth (the incisors).

Provide ample nesting material and bedding for the new mother and young. Plenty of fresh food and water should be available before the babies are born. DO NOT disturb the mother and young for any reason during the first week after birth. If a mother hamster seems threatened for any reason, she typically will kill and cannibalize the young. In other instances, she may stuff the young into her cheek pouches and frantically carry them around the cage looking for a safe place to establish a nest. Occasionally, pups will suffocate as a result of this activity, especially if the disturbance is prolonged.

Young hamsters usually begin eating solid food at 7 to 10 days of age, but are not weaned until 21 to 25 days. Provide food on the cage floor for the young, and also have soaked, softened pellets available for them. Make sure that the water bottle is low enough for the weanlings to use and make sure they are strong enough to use it; or provide an alternative water source during this time.

## Medical Conditions

### **Proliferative Ileitis (Wet Tail)**

The most commonly encountered bacterial infection recognized in hamsters is “wet tail”. The precise cause of the disease is not fully understood. Some possible contributory factors include improper diet, sudden dietary changes, overcrowding, and other stresses.

This disease most often affects weanling hamsters between the ages of 3 to 6 weeks, but hamsters of all ages are susceptible. Since this is the age at which most hamsters are sold, this is a common disease encountered in recently acquired pets. The longhaired “teddy bear” hamster seems to be more vulnerable than the other varieties.

Death may result within 1 to 7 days after the onset of watery diarrhea. Other signs include matting of the fur around the tail, unkempt hair coat, and hunched stance, loss of appetite, dehydration, emaciation, and irritability. Blood from the rectum and rectal prolapse may be noted in some serious cases. This is a very serious disease, with death being the most likely outcome.

Due to the severity of this disease, any hamster exhibiting these signs must be examined by a veterinarian as soon as possible. Antibiotics, fluid therapy, and anti-diarrheal medications may be administered to the patient.

Supportive care may also be instituted. Despite best efforts, treatment may be unrewarding with death occurring within a couple days in many cases.

### **Hair Loss (Alopecia)**

Hair loss can occur for a number of reasons in hamsters. This loss of hair can be due to both disease and non-disease conditions. Continual rubbing on feeders or sides of the cage and barbering (hair chewing by cage mates) are examples of non-disease causes of alopecia. Infestation with mites is one of the most common infectious causes of patchy hair loss and scaling in hamsters. Other conditions that lead to hair loss include tumors, thyroid disease, and kidney disease. Some of these conditions may be correctable while others are not.

Demodex mites are the most common external parasite causing problems in hamsters. The mite lives within the hair follicles and certain skin glands of their host. The presence of these mites results in dry, scaly skin and subsequent hair loss, especially over the back and rump. This disease is rarely a problem by itself. Demodectic mange in hamsters is often associated with other diseases. For this reason, a thorough examination must be performed on any hamster presented with mites. To confirm the presence of mites, the veterinarian may perform

a skin scraping for microscopic observation. Treatment for the mites is often possible especially if the underlying problem is also addressed.

**Old Age Disease (Geriatric Conditions)**

Hamsters tend to have relatively short life spans when compared with other species. The average life expectancy of a hamster is between two and three years of age. For this reason, spontaneous aging diseases are not uncommon in these animals after the age of one year. Two of the most common geriatric diseases of hamsters are amyloidosis (protein deposition in various organs) and cardiac thrombosis (blood clots in the heart). Treatment of these conditions involves managing clinical signs since cures are not possible. A diagnosis of virtually any geriatric disease carries with it a poor prognosis.

UPDATED 3/2010 SL