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Coping With Loss

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New Treatment Protocol for Feline Oral Squamous Cell Carcinoma

Squamous cell carcinoma is the most common oropharyngeal tumor seen in the older cat. This very aggressive disease is treatable by surgery in only about 50 percent of the patients because it involves the tongue or its base. The median survival rate from time of diagnosis is one to three months because the animals are euthanized at that time because of the inability to eat. The tumor is usually not diagnosed until it has progressed substantially. Owners first notice something is amiss when the cat is not grooming itself and is reluctant to eat. This tumor is very similar to advanced head and neck cancer in humans, which too has a very poor prognosis for treatment. Only 15 to 30 percent of patients with advanced head and neck live five years or more after diagnosis.

Dr. Sydney Evans, assistant professor of radiology at the School of Veterinary Medicine, University of California, Davis, is investigating a new treatment protocol for feline oral squamous cell carcinoma, using a new cell sensitizing drug and radiation treatments. Cats with these tumors, when treated by radiation alone, have a median survival rate of four months. "It has long been suspected that the low success rate of radiation treatment for these tumors has been due to hypoxic tumor cells which are radiation resistant," said Dr. Evans. "Hypoxic cells are oxygen poor and they are not easily killed by radiation. One can make a hypoxic cell more receptive to radiation by administering drugs which change the cells' state of oxygenation." Unfortunately, these drugs, when given in quantity, are too toxic and cause damage to central and peripheral nerves. Because this tumor in the cat can represent an animal model for human head and neck cancer, new treatment modes used in animals can provide a great deal of information for new treatment of human patients.

Dr. Evans and her colleagues studied the effects of etanidazole when it is injected directly into the tumor bearing tissue to see whether this method could improve the outcome of radiation therapy.

Eleven cats with measurable oral squamous cell tumors were entered in the clinical study. Thoracic radiographs were performed, as well as blood tests. The tumors were biopsied and staged. Seven of the cats also had skull radiographs while four received an MRI. Each cat received 12 radiation treatments, given three times a week over 16 weeks. Between treatments most of the animals were at home with their owners. For each interval, the animals were anesthetized so that they would remain still during radiation. Thirty minutes prior to radiation treatment, the tumor, as well as surrounding normal tissue, was injected at 5 mm intervals with etanidazole. The first four cats studied received the drug prior to every other treatment. The fifth cat received the drug injected into the tumor and intravenously on alternate treatments. Because no significant toxicity was observed, the amount of the drug injected was increased for the remaining cats, and the drug was administered prior to each radiation treatment.

In addition, pharmacokinetic studies were conducted in four cats. It was observed that drug levels in the plasma peaked 14 minutes after intratumoral injection. Some of the patients developed self-limiting fevers and leukopenia (low white blood cell count). After radiation treatments ended, cats were seen at regular intervals for examination and/or biopsy of the tumor site.

In all cats, tumor regression occurred during the course of therapy. In most cats this correlated with the resolution of anorexia, return of grooming habits and stability or increase in body weight. Evans and her colleagues have found that the local tumor response has been encouraging, especially in those cats with tongue squamous cell carcinoma," said Dr. Evans. "For the six cats with the lesion of or under

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It's 3:30 on a Tuesday afternoon, and a small group of bad-looking people are gathered in a room at the School of Veterinary Medicine. There's the young woman who, four weeks ago, had her much-loved dog euthanized; it was leaking urine all over the house; after a week of relief, the woman was dragged down by an overwhelming guilt about her decision, and not giving the dog a proper goodbye. Her husband sits at her side.

There's a woman whose 20-year-old cat screamed every night, for no reason that bad ever happened. The cat was biopsied and staged. Seven of the cats also had skull radiographs while four received an MRI. Each cat received 12 radiation treatments, given three times a week over 16 weeks. Between treatments most of the animals were at home with their owners. For each interval, the animals were anesthetized so that they would remain still during radiation. Thirty minutes prior to radiation treatment, the tumor, as well as surrounding normal tissue, was injected at 5 mm intervals with etanidazole. The first four cats studied received the drug prior to every other treatment. The fifth cat received the drug injected into the tumor and intravenously on alternate treatments. Because no significant toxicity was observed, the amount of the drug injected was increased for the remaining cats, and the drug was administered prior to each radiation treatment.

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might have lived a while longer. Other pet owners worry that they’re going crazy because they think they see or hear their deceased animals.

Other factors may cause upsetting feelings as well, such as important and difficult decisions including how to dispose of the pet’s body. Dunn approves of the procedure at the School of Veterinary Medicine in which an animal’s body is held at the hospital for three days after a decision has been made in case the owner changes his mind and chooses to bury or cremate the animal privately.

“But even though there are common things that many on PN, and one recent people respond to their pet’s death is very individual,” Dunn says. Some people respond by eating or sleeping too much or too little. Others find they have a diffusiveness concentrating on even the most mundane tasks, while some people seek solace in drugs or alcohol to lessen the pain. In fact, Dunn encourages grieving pet owners who have chronic medical conditions to check with their physicians; the loss of a pet is stress so severe that it can trigger an attack or relapse.

Men and women often respond differently to a pet’s death. “Women tend to talk more,” says Dunn. “Men may pace, or smash their fists together. They’re just as upset, but they show it differently.”

Talking with other grieving pet owners is probably the most powerful component of healing: tears of empathy and nods of understanding often punctuate the session.

People sometimes bring photos of their pets to the group, while others share writing or artwork they’ve created to honor their animals.

But Dunn’s approach is multi-faceted: She urges group members to keep busy. She tells them to exercise. She suggests they write letters to their pets, and to keep a diary of how they’re feeling. She also encourages them to re-claim experiences, with the support of an understanding friend, that had been shared with the now-deceased animal; for instance, to walk the same park path that used to be the favorite stroll with the dog.

Another useful resource is When Your Pet Dies: How To Cope With Your Feelings, by Jamie Quackenbush, M.S. W, who was affiliated with the School of Veterinary Medicine. The support group began in July 1987.

Dunn screens prospective group members to make sure that a group experience would be the most effective form of treatment. Also, she tries to choose members who will stay focused on pet bereavement.

“Some people, who might have more severe psychiatric problems, use the animal to get help,” she says.

“And it’s sometimes easier to ask for help because your pet has died.”

The group is appropriate for people whose animals are terminally ill, as well as for people whose pets have died. “The group is open ended,” says Dunn, who is a frequent lecturer about pet bereavement at the School of Veterinary Medicine. “You can come as often as you want.”

Dunn tells of a mother of four teenagers, who joined the group with her two older children after the family had to put the family collie euthanized. This already difficult situation was compounded by the fact that the dog was the only living creature responded to by the woman’s mother, who had Alzheimer’s Disease.

“Although the majority of people who come are dealing with a recent loss, we sometimes get people whose pets died quite a while back — and sometimes they’ve already gotten a new pet (not that getting a new dog erases the memory of Fido or Rover). But they feel it’s the only place they can talk about their pets who’ve died with other pet owners who would understand.”

Dunn shares an excerpt of a letter written to her by a woman who joined the group after her dog died of cancer: “As the one-year anniversary of my loss approaches, I can honestly say that I feel my pain will always be with me, but the group has taught me how to deal with it. Three months ago, I would never have thought of owning another dog, and I am now the owner of a seven-month-old puppy. She will never replace Butchie, but I know I will grow to love her.”

Another letter was written by a woman who joined the group while her dog was terminally ill.

“The grief I was able to share with others in my same situation allowed me to voice my true feelings and demonstrate a selfish outcry, something I am rarely able to do. A year after my dog’s passing, I find myself still involved with the group to honor his loving memory.”

Because there are only a handful of pet bereavement groups in the United States, group participants have come from as far away as Atlantic City and Baltimore. Students at the School of Veterinary Medicine sometimes attend the group, learning coping skills that they’ll need as they progress in the profession. “I sometimes see students on the elevator who are taking a body to the morgue, and they’re crying,” Dunn says. “I tell them these are tears of love.”

The group, which is free, meets every other Tuesday from 3 to 5 p.m. It is open to the public; grieving pet owners need not have had their animals treated at the School of Veterinary Medicine. Dr. Louise Shoemaker, Professor at the School of Social Work, University of Pennsylvania, is the Consultant for the Group.

Janet R. Fallon

Parenteral Nutrition

Young, critically ill calves pose a special challenge for the veterinarian. Their energy reserves are slim, and this, coupled with the demands of rapid growth and coping with cold temperatures, can become a critical factor when such young animal becomes ill. Energy reserves are quickly depleted, particularly if the animal has diarrhea, a common ailment among young calves. Then dehydration is an additional danger, and the inability to tolerate normal amounts of milk feedings further limits what can be done to save the calves.

In recent years parenteral nutrition (PN), long in use in human medicine, has been adapted for use in animals. PN for calves, a specially formulated solution of dextrose, amino acids, sodium bicarbonate, lipids and multiple B vitamins, is administered intravenously. It helps the critically ill animal to retain weight and reverse dehydration.

Two recent studies at New Bolton Center, the large animal facility of the University of Pennsylvania School of Veterinary Medicine, by Dr. Thomas D. Menzies, provided some information about the effects of PN on critically ill calves. One randomized retrospective study examined 11 clinical cases. While the other, a controlled study, examined two groups of calves with diarrhea, one placed on PN and the other receiving conventional treatment, as a control group.

“Of the 11 calves studied, age four days to six weeks at hospital admission, received PN for three days or more”, explains Dr. Jannell R. Facon. “All had diarrhea as their primary clinical sign. The diarrhea was believed to be due to Rotavirus and Cryptosporidia in most of the calves. One calf was confirmed to have Bovine virus diarrhea; none were found positive for Salmonella sp.”

Duration of diarrhea prior to hospital admission ranged from two to four days. Four of the calves could not stand at the time of hospital admission because of weakness. All calves had been housed in some type of outdoor “hutch” prior to hospitalization, eight of the cases were admitted to the hospital during the period of January to April.

Six of the animals had a fever at the time of admission or developed it within 24 hours thereof. Two calves had mild pneumonia and one could not suckle. Routine blood work was performed. Calves on PN with parenteral nutrition, formulated for each calf, was administered continuously into the jugular vein for a mean of 5.8 days (3 - 11 days). In addition the calves received milk, fed at two percent of their body weight, divided into four feedings a day. Milk feedings were gradually increased to eight percent of body weight/day prior to discontinuing PN. All calves were offered oral electrolytes free choice. Calves also received antimicrobial drugs via the same catheter used for PN.

Of these calves nine survived and continued to do well after discharge from the hospital. Two calves died, one with BVD and one with pertussis associated with an urachal infection. The calves gained weight on PN, those gaining weight most rapidly with BVD. In the other study calves less than three weeks of age with diarrhea were purchased from farmers. They were free of Salmonella sp, and were randomly assigned to one of two groups, one group was placed...