Therapy Dogs in the Emergency Department

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INTRODUCTION

Animal-assisted therapy (AAT) is a therapeutic patient interaction with a domestic “pet-type” animal that is not one’s own pet.¹ The documented benefits of AAT include improved physical, emotional, cognitive, and social functioning; reduced blood pressure and triglyceride levels; and even reduced cardiovascular morbidity and mortality.²–⁴ Psychiatric patients benefit by reduced stress.⁵ Patients with heart failure have lower epinephrine and norepinephrine levels, with systolic pulmonary artery and pulmonary capillary wedge pressure reductions after AAT.⁶

Potential hazards of AAT may include animal bites, allergies, and zoonotic infections.⁷,⁸ Animal-assisted therapy programs minimize these hazards by vaccinating and washing the animals, special training, and the continuous presence of handlers.⁴,⁷ Adverse events are very rare when AAT protocols are followed.⁹,¹⁰

There are no reports of AAT in an emergency department (ED). Although there is no reason to suppose that emergency patients would not accrue the usual benefits, the acceptance of AAT in EDs has not been examined.

METHODS

This study was approval by the local institutional review committee.

A survey was offered to each person in the ED immediately after a therapy dog (TD) had left each of 4 adult ED hallways. Therapy dogs visited the ED 6 times between July 2008 and November 2008. The survey asked about the respondent’s attitudes toward dogs in general, and about dogs in the ED. A research assistant stayed with the respondent until the
A survey was collected. This minimized loss due to incomplete responses, but conversely, no data were collected on those who declined to participate.

**Setting**

The setting was the ED of a large, Midwest, urban teaching hospital. The dog-handler teams were certified by Therapy Dogs International and certified by the hospital’s Pet Therapy Program. The 2 TDs in this study were a mixed-breed Labrador Retriever (Quincy) and a Burmese Mountain Dog (Brinkley).

**Participants**

We obtained a convenience sample of 125 patients and 105 staff members. For analysis, patients included both patients and their visitors; ED staff included physicians, nurses, and others. All were older than 18 years and capable of completing the survey; completion constituted consent. Staff respondents may have completed a survey at more than 1 visit, but because the TDs visit the ED only every 2 to 4 weeks, it is unlikely that many patients had completed more than 1 survey. (One patient was known to be present twice and completed 2 surveys.)

**Circumstances**

The hospital already had an AAT program, and the ED was part of the TDs rounds. During TD visits, certified TD handlers introduced themselves and the dogs to patients and their visitors, asking those present if they would like a visit from the therapy dog. The handlers and dog entered the room only with the approval of everyone present in the room. During the visit, patients and visitors could interact with the TD. The extent of interactions was dictated by the visit recipients. People could pet the dog, have the dog do tricks, talk about the dog, and sometimes throw a treat to the dog.

**RESULTS**

Most patients visited with the TD. Most staff (69.5%) observed the dog with a patient. The vast majority of patients and staff (93% and 95%, respectively) thought that TDs should visit the ED. Both patients and staff approved of having a TD in both the adult and pediatric sections of the ED. Only a few respondents felt the TD was dangerous: 4 (3.3%) patients and 1 (1%) staff member. Eleven patients (9.2%) and 11 staff members (10.6%) strongly agreed or agreed that TDs made the ED less sanitary. Few staff (8.6%) and fewer patients (4.2%) worried that the TD interfered with the work of the ED. The 125 patient responses and 105 staff responses are compared in the Table.

**DISCUSSION**

Therapy dogs are uncommon in EDs. The ED is a more chaotic environment than hospital floors, and ED-visiting animals may require additional training before entering this environment. Although developing a new AAT program can be burdensome, in hospitals where AAT is already present, consideration should be given to including the ED in AAT rounds.

There are reasons to think AAT would be particularly advantageous for ED patients, who are often highly stressed by their unexpected illness and long waits. Animal-assisted therapy may improve patient satisfaction by decreasing perceived waiting time.

One example may illustrate how a TD helped in a pediatric ED. A 4-year-old child with a head injury was frightened and refused to hold still for a computed tomography scan. When the child saw how still the TD could be after a "Down, Stay" command, he exclaimed, “If Quincy [the TD] can lay still like that, I can, too!” In this instance, TD interaction obviated the need for chemical sedation with its attendant risks.

**LIMITATIONS**

Our study suffered from a number of limitations: potential survey duplicates, Hawthorne effect, animal bias, immediacy, scheduling, and the individual dogs’ personalities. The TD did not visit with any critically ill patients. We had not instructed respondents to fill out a survey only once, and at least 1 patient and an unknown number of staff may have completed more than 1 survey. We did not collect data to correct for this limitation. Because 1

| Attitude toward TD | Patients, No. (%) (n = 125) | Staff, No. (%) (n = 105) |
|--------------------|-----------------------------|--------------------------|
| Visiting: visited with TD | 87 (69.6) | 73 (69.5) |
| Approval: agreed or strongly agreed that TD should visit EDs | 117 (93.3) | 100 (95.2) |
| Location: TDs should visit both adult and pediatric patients | 110 (87.8) | 97 (92.1) |
| Fear: TD was a danger to patients | 4 (3.4) | 2 (2.0) |
| Cleanliness: did not agree that TD made ED less sanitary | 113 (90.7) | 95 (90.3) |
| Interference: TD does not interfere with staff work | 120 (95.8) | 96 (91.3) |

*ED, emergency department; TD, therapy dog.*
of the TD handlers was an emergency physician, the Hawthorne effect was unavoidable. Staff members were aware that these TD visits would be followed by an attitude survey. Most adults have already established their biases about animals. It is possible that people who liked dogs completed more surveys than dog haters. Anecdotally, it seemed that patients who refused a TD visit were also more likely to refuse to answer the survey. We did not collect data on refusers. The short time between the TD visit and the survey may have positively biased responders who were still excited by the TD visit. Staff who disapproved of AAT may have been underrepresented because of patient care duties. Responses may have been different at another time of day. The dogs were both large, weighing more than 65 lb. Attitudes toward smaller dogs or dogs of other breeds may have been different.

CONCLUSION
This is the first study of AAT in an ED. Acceptance by patients and staff was excellent. The specific benefits of AAT in EDs should be further studied.

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