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# The Health Benefits of Companion Animals

# INTRODUCTION

## Human-animal bond

Many people intuitively believe that they and others derive health benefits from relationships with their animal companions, and numerous scientific studies performed over the past 25 years support this belief. Among other benefits, animals have been demonstrated to improve human cardiovascular health, reduce stress, decrease loneliness and depression, and facilitate social interactions among people who choose to have pets. Additionally, many terminally ill, pregnant, or immunocompromised people are urged to relinquish their animal companions due to concerns about zoonoses (diseases that may be transmitted between humans and non-human animals). However, giving up their beloved friends may have a detrimental, rather than beneficial, effect on their overall health. In many instances, human health professionals can contribute to the welfare of their patients by encouraging them to maintain bonds with their pets, even in the face of serious illnesses and other challenges.

To help human health professionals and their patients decide when and in what ways a companion animal may provide assistance, this booklet reviews some important scientific studies that document the positive impacts of the human-animal bond on human health: physiologically, psychologically and socially.

## If I have further questions who can I contact?

Pets Are Wonderful Support  
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*Pets Are Wonderful Support (PAWS) is a volunteer-based organization that provides for the comprehensive needs of companion animals for low-income persons with HIV/AIDS and other disabling illnesses. By providing these essential support services, educating the larger community on the benefits of the human-animal bond, and advocating for the rights of disabled individuals to keep service animals, PAWS improves the health and well-being of disabled individuals and the animals in their lives. Visit us online at [www.pawssf.org](http://www.pawssf.org).*

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*Health professionals can contribute to the welfare of their patients by encouraging them to maintain bonds with their pets.*

# FINAL WORDS



- ⌘ Consider “prescribing” an appropriate animal or pet assisted therapy for patients who desire an animal and may safely benefit from it.
- ⌘ Provide assistance and referrals to assist patients in preventing behavior problems with their companion animals.
- ⌘ Provide support for individuals who seek your help in documenting a disability for the purpose of obtaining a service dog.
- ⌘ Develop a list of resources focused on maintaining the health and well-being of companion animals, including local veterinarians, animal behaviorists and trainers, groomers and food banks.
- ⌘ Provide referrals to organizations in your area that assist in pet care for people with serious illnesses, and to organizations providing care for pets in case a patient requires hospitalization or dies.
- ⌘ Consider adding a question about pet ownership to your patient registration forms. Not only will you gain insight into your patients’ environment and family structure, the information you gather may prove crucial for future studies concerning the health benefits of animal companionship.
- ⌘ Make sure that members of your staff are familiar with the information contained in this brochure.

# PHYSIOLOGICAL

## ■ Physiological benefits

Numerous studies highlight physiologic benefits. Pet interaction, whether active or passive, tends to lower anxiety levels in subjects, and thus decrease the onset, severity, or progression of stress-related conditions.<sup>1</sup> Furthermore, it is thought that the reduction in blood pressure achieved through dog ownership can be equal to the reduction achieved by changing to a low salt diet or cutting down on alcohol.<sup>2</sup> Pet ownership and other animal contact, such as petting animals and watching fish in an aquarium, have specifically been demonstrated to provide cardiovascular benefits. Examples include:

- ⌘ Increased survival time after myocardial infarction for dog owners.<sup>3</sup>
- ⌘ Decreased risk factors for cardiovascular disease, particularly lower systolic blood pressure, plasma cholesterol and plasma triglycerides.<sup>4</sup>
- ⌘ Decreased heart rate from petting a dog or watching fish in an aquarium.<sup>5,6,7</sup>

These beneficial effects of pets may be mediated by increased exercise associated with pet ownership as well as decreased stress levels.

In addition to providing cardiovascular benefits, decreased physiological stress is associated with animal interaction, contributing to better overall health:

humans, injuries from bites/scratches, and allergies. In a study of persons with AIDS who owned pets in three Florida counties, only 10% were informed of zoonoses, and some were informed incorrectly.<sup>52</sup> With accurate advice and the proper precautions, individuals with disabling illnesses can continue to enjoy the support and companionship of their pets. Contact PAWS for more information about how to manage the risks associated with pet ownership and for copies of *Safe Pet Guidelines* to distribute to patients.

Health benefits are also more likely to be associated with animal companionship when the care of the animal does not pose a burden to the person and the animal's behavior is acceptable to the person. When housing and community environments are supportive of animal ownership, the human-animal relationship is strengthened. If you would like more information about laws that protect people with disabling illness and their companion animals in housing, please contact the PAWS Advocacy Program at 415.979.9550 ext 304.

*Animal contact has been demonstrated to provide cardiovascular benefits.*

- ⌘ Greater reduction of cardiovascular stress response in the presence of a dog in comparison to friends or spouses.<sup>8</sup>
- ⌘ Decreased pulse rate, increased skin temperature, and decreased muscle tension in elderly people watching an aquarium.<sup>9</sup>
- ⌘ Enhanced hormone levels of dopamine and endorphins associated with happiness and well-being and decreased levels of cortisol, a stress hormone, following a quiet 30-minute session of interacting with a dog.<sup>10</sup>
- ⌘ Reduced levels of the stress hormone cortisol in health-care professionals after as little as 5 minutes interacting with a therapy dog.<sup>11</sup>

Other studies document that children exposed to pets in early life experience enhanced immune function:

- ⌘ Fewer allergies and less wheezing and asthma in children exposed to pets during infancy.<sup>12,13,14,15,16</sup>
- ⌘ Protection against adult asthma and allergies in adults at age 28 when exposed to pets before 18.<sup>17</sup>

Several studies document overall general health benefits of pet ownership and animal interaction:

- ⌘ Less frequent illness and less susceptibility to upper respiratory infection related to a significant increase in IgA levels occurred after petting a dog.<sup>18</sup>

# CONCLUSIONS

Companion animals have been shown to provide valuable physiological, psychological, and social benefits. These benefits are often especially significant in vulnerable individuals. Because many individuals who visit health care professionals are especially sensitive due to illness and the effects illness can have on one's quality of life, it is important for health care professionals to support the vital role of animal companionship in their patients' lives.

## ■ How can health care professionals help?

The first step is to recognize the widespread extent of animal companionship in the United States. A 2005 survey by the American Pet Products Manufacturing Association, Inc. revealed that 63% of American households own a pet, and that 73.9 million dogs and 90.5 million cats are owned in the United States.<sup>51</sup>

It is also important to acknowledge the significant bond between people and their pets. Trivializing this bond by automatically advising immunocompromised and pregnant patients to give up their pets can undercut the demonstrated value of pets on health and well-being. Instead, a health care professional can provide accurate advice about the benefits and risks associated with keeping the pet. Most negative health outcomes related to companion animals involve diseases that can be transferred from animals to

*Pets provide companionship and support, reduce stress and provide a sense of purpose to their disabled human companions.*

- :: Increased lung function and overall quality of life in lung transplant patients who are allowed to have a pet.<sup>19</sup>
- :: Perceived pain significantly reduced in children undergoing major operations after participation in pet therapy programs.<sup>20</sup>
- :: A significant reduction in minor health problems for at least 10 months after acquiring a dog.<sup>21</sup>
- :: Fewer doctor visits per year for elderly dog owners than non-owners.<sup>22</sup>

Another area in which animals facilitate social interactions is during animal-assisted therapy visits in nursing homes. Increased interactions occur not only between patients, but also between patients and staff, and among the staff itself.

- :: When a resident dog was introduced into a ward housing persons with Alzheimer's Disease, fewer problem behaviors were noted during the four weeks of study.<sup>45</sup>
- :: Patients with Alzheimer's Disease showed increased calmness and improved social interactions when they received visits from Golden Retrievers.<sup>46</sup>
- :: Nutritional intake and weight of Alzheimer's Disease patients increased significantly when fish aquariums were introduced into their dining areas.<sup>47</sup>
- :: Animal-assisted therapy can effectively reduce the loneliness of residents in long-term care facilities.<sup>48</sup>
- :: A single, brief session of animal-assisted therapy significantly reduced patients' fear by 37% prior to serious medical treatment (electroconvulsive therapy).<sup>49</sup>
- :: Elderly schizophrenic patients that participated in animal-assisted therapy had increased independent self-care, mobility and interpersonal contact.<sup>50</sup>

# PSYCHOLOGICAL SOCIAL

## ■ Psychological benefits

Many studies have addressed the contribution of pets to human psychological well-being. One general study found that Australian cat owners scored better on psychological health ratings than did non-owners.<sup>23</sup> Other studies have been more specific, focusing on groups facing stressful life events such as bereavement, illness, and homelessness. Findings from these studies often indicate that pets play a significant supportive role, reducing depression and loneliness and providing companionship and a need for responsibility.

One group of studies, performed with recently bereaved elderly subjects, demonstrated that:

- :: Recently widowed women who owned pets experienced significantly fewer symptoms of physical and psychological disease and reported lower medication use than widows who did not own pets.<sup>24</sup>
- :: In bereaved elderly subjects with few social confidants, pet ownership and strong attachment were associated with less depression.<sup>25</sup>

Another group of studies, looking at AIDS patients, found that:

- :: Patients with AIDS reported that their pets provided companionship and support, reduced stress, and provided a sense of purpose.<sup>26</sup>

## ■ Social benefits

Animals often serve to facilitate social interactions between people. For individuals with visible disabilities who may frequently be socially avoided by others, and in settings such as nursing homes, the role of animals as social catalysts is especially important.

- :: One study found that elderly people who live in mobile homes and walk their dogs in the area had more conversations focused in the present rather than in the past than those people who walked without their dogs.<sup>41</sup>
- :: Disabled individuals in wheelchairs accompanied by service dogs during shopping trips received a median of eight friendly approaches from strangers, versus only one approach on trips without a dog.<sup>42</sup>
- :: Observations of passersby encountering persons in wheelchairs revealed that passersby smiled and conversed more when a service dog was present.<sup>43</sup>

In addition to acting as social catalysts, service dogs provide obvious practical benefits such as alerting their owners to visual hazards, auditory warnings, and impending seizures; assisting with mobility; and seeking help in emergencies. However, studies also indicate that they promote improved psychological well-being and reduce the number of assistance hours required by disabled owners.<sup>44</sup>

*Pets play a significant supportive role, reducing depression and loneliness and providing companionship.*

- :: Patients with AIDS reported that cats were an important part of a support system to prevent loneliness.<sup>27</sup>
- :: Patients with AIDS who owned pets, especially those with few confidants, reported less depression and other benefits compared to those who did not have pets.<sup>28</sup>

A third group of studies, carried out using homeless subjects, showed that:

- :: Homeless pet owners that were attached to their pets, often reported that their relationships with their pets were their only relationships, and most would not live in housing that would not allow pets.<sup>29,30</sup>
- :: Over 40% of homeless adolescents reported that their dogs were a main means of coping with loneliness.<sup>31</sup>

Studies focused on service dogs have shown overall improved quality of life for their human companions:

- :: Mobility-impaired individuals indicated increased “freedom to be capable” since receiving an assistance dog. Participants additionally reported increased independence and self-esteem, decreased loneliness, and experienced frequent friendliness from strangers.<sup>32</sup>
- :: Quality of life improved in families of epileptic children when a dog that responds to seizures is present in the home.<sup>33</sup>

Psychological studies reviewing the relationship between animals and children have revealed:

- :: The mere presence of animals positively alters children’s attitudes about themselves and increases their ability to relate to others.<sup>34</sup>
- :: Pets help children develop in various areas including love, attachment, and comfort; sensorimotor and nonverbal learning; responsibility, nurturance, and competence; learning about the life cycle; therapeutic benefits; and nurturing humanness, ecological awareness, and ethical responsibilities.<sup>35</sup>
- :: Children exhibited a more playful mood, were more focused, and were more aware of their social environments when in the presence of a therapy dog.<sup>36</sup>

Additional studies have shown:

- :: Alzheimer’s patients still living at home with pets had fewer mood disorders and fewer episodes of aggression and anxiety than did non-pet owners.<sup>37</sup>
- :: Female pet-owners that have suffered physical abuse report their pets are an important source of emotional support.<sup>38</sup>
- :: Dog owners were found to be as emotionally close to their dogs as they were their closest family members.<sup>39</sup>
- :: Psychiatric disability patients who participated in a 10 week horseback riding program had increased self-esteem and an augmented sense of self efficacy.<sup>40</sup>