The Human-Animal Bond

We all love our cats — and there’s increasing evidence that the relationship is good for our health, and their health, too. Here’s what experts have to say.

The human-animal bond (HAB) is ancient, intricate and profound. Animals have been part of our earliest history as evidenced by pre-historic cave drawings suggesting to some that the fascination and bond may be innate. It isn’t difficult to imagine early humans gathered around the evening fire with a furry companion nearby. Over the millennia, people domesticated animals, anthropomorphized them and incorporated them into religious ceremonies, culture, and, ultimately, the family.

What is this strong, undeniable connection between people and animals — domestic or wild — that we call the human-animal bond? "The human-animal bond can be defined as a metaphor for the roles animals play in our lives," explains Gregg Takashima, DVM, CEO, Animal Care Group of Lake Oswego, and president of the American Association of Human-Animal Bond Veterinarians (AAH-ABV). According to the American Veterinary Medical Association.

"The human-animal bond is a mutually beneficial and dynamic relationship between people and animals that is influenced by behaviors that are essential to the health and well-being of both. This includes, but is not limited to, emotional, psychological and physical interactions of people, animals and the environment."

Reasons for attachment

We tend to think a strong bond grows over time with many shared experiences — for example, a lifelong friendship with a grade school classmate. The same is true for our pets; however, there’s more than just the passage of reciprocal quality time that deepens our bond. "Not to sound reductionist and bring it down to brain chemistry, but there are chemical reasons for the attachment. Having contact or looking into an animal’s eyes and seeing a long, loving look reflected back at us has been shown to release oxytocin, the hormone of bonding, love and affection," says Nicholas Dodman, BVMS, director of the Animal Behavior Clinic at the Cummings School of Veterinary Medicine at Tufts University.

The chemical release is believed to be bidirectional, meaning that it’s also released in the pet or animal. Those of us with pets know, perhaps intuitively, that our animals enhance our lives on many levels including our physical, psychological and emotional health and wellness. Science is now corroborating what we’ve said anecdotally for years: Pets make all of us — from the youngest to the most senior — healthier in body and mind.

Beneficial for children

Children living with pets not only learn a sense of responsibility, but they also develop stronger, healthier immune systems. Children

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raised with pets often demonstrate well-balanced emotional health benefits such as greater empathy, cognitive development and greater social participation. One study showed that children are more likely to live with a pet than their biological father or a sibling. For these children, the HAB is particularly important.

Helpful to health issues
The list of diseases that appear to benefit from the presence of pets in our lives includes heart disease, cancer, autism spectrum disorder and diabetes, according to Dr. Takashima. A study by the Minnesota Stroke Institute showed that cat owners had a significantly reduced risk of cardiovascular diseases including stroke.

“The potential positive effects of pets on cardiac disease and cancer alone could be extremely significant, but in addition, animals are reported to have positive effects on a wide spectrum of social and health issues including wound healing and immune health through the effects of the neurotransmitter oxytocin, pediatric respiratory diseases, child development, elder care, and pain reduction or distraction.

“Pets are potential influencers of community health, with some evidence they can provide a ‘sense of community’ and improve the ‘social capital’ of a community. Pets have even been implicated to improve the motivation of people to quit smoking or lose weight,” says Dr. Takashima.

The health benefits of HAB are a two-way street: Our pets also benefit from improved health with positive human interaction. In a study recently published in the October 2015 Preventive Veterinary Medicine, 96 cats rated as “content” and healthy upon their arrival at a shelter were divided into two groups, with one group receiving human interaction — called “gentling” — which included petting, playing and grooming. The interaction was for 10 minutes, four times a day, for 10 days. For the control group of cats, a person stood in front of the cage with eyes averted, for the same time period.

The “gentled” group of cats maintained their “content” disposition, were less anxious or frustrated and less likely to develop upper respiratory disorders. The control group of cats didn’t fare so well — 17 of the 49 cats developed upper respiratory disorders compared to nine of the 47 “gentled” cats.

Dr. Dodman equates the findings to what we already know about ourselves. “Our immune systems are weakened when we’re under stress, which makes us more susceptible to colds and flu.” It shouldn’t be a surprise that stressed cats are susceptible to diseases, as well.

What is the One Health Initiative?
The One Health Initiative is a collaborative effort of multiple health science disciplines working together to advance global health for people, animals and the environment. Examples of health science disciplines and institutions include physicians, osteopaths, veterinarians, dentists and nurses; the American Medical Association, American Veterinary Medical Association, American Academy of Pediatrics, American Nurses Association, American Association of Public Health Physicians, the American Society of Tropical Medicine and Hygiene, the Centers for Disease Control and Prevention (CDC), the United States Department of Agriculture (USDA), and the U.S. National Environmental Health Association (NEHA). More than 700 prominent scientists, physicians and veterinarians worldwide have endorsed the approach.

As the human population continues to expand worldwide, the convergence of human, animal, plant and environmental health becomes increasingly important:

- World population is projected to reach nine billion by 2050;
- The related health science professions must work together to provide acceptable healthcare, food, and water for the global population;
- Environmental health — pollution, contamination, poor conditions — affect human and animal health;
- The human-animal bond positively benefits the health of humans and animals and continues to grow worldwide;
- Humans and animals share common diseases such as cancer, diabetes and obesity;
- Recognition that nearly 75% of emerging infectious diseases in humans originated in animals and that successful prevention and control requires coordinated human medical and veterinary approach.

Further along the spectrum the bond may be tenuous or frayed. Often times this is due to a pet exhibiting a normal behavior that the person finds unacceptable, for example, urine marking. It becomes an “I love you, but...” type of relationship.

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A cat with a tuna preference

Q I have a five-year-old cat that I adopted from a shelter as a kitten. Spruce has been a wonderful companion, with good behavior and a clean bill of health at all of her wellness exams. However, I have a question regarding her nutrition. She will only eat tuna flavored varieties of canned cat food. She is not picky about the brands. I worry about the reports about excess Mercury in canned tuna and I want to protect her health. Any help you can give will be much appreciated.

Delores Levanthal

A Dear Delores: I share your concerns. Although to my knowledge mercury toxicity has not been reported in cats, I wouldn’t want to feed a cat a high mercury diet on a daily basis long-term. Maybe you can find a different type of fish-based canned food that she likes, or add just a tiny bit of tuna-based food to other types of foods until she gets used to eating them?

Or maybe you can save some tuna juice from the next can that you open for yourself. Freeze it in an ice cube tray and put a small amount on the non-tuna diet to encourage her to eat it. (However, I don’t recommend that you do this if your cat has heart disease or high blood pressure due to the salt content).

We already know that cats can be pretty stubborn, but I bet with persistence you could gradually increase your options to some non-tuna foods.

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Growing up with pets can help kids to have more empathy as adults.

Because a diet high in mercury is potentially dangerous to your cat, it’s best to find fish flavors other than tuna that she also enjoys.