Discover how advances in animal health can lead to advances in human health through four exhibits in one!

Each exhibit explores a health concern – asthma, obesity, spinal cord injury, cancer – shared by people and their pets. Giant, colorful panels with informative interactives illustrate the nervous system, the respiratory system, the discovery of new medicines, and healthy food and exercise choices.
Holly’s Heaves

Ten-year-old Holly the horse has asthma, which is called “heaves” in horses. Learn about the respiratory system by taking a closer look at the lungs through touchscreen videos and hands-on activities. Find out what triggers asthma and what can be done to alleviate some of the symptoms.

Learning Objectives

1. Understand that the respiratory system of people and other animals works the same way.
2. Understand that the respiratory system brings in oxygen and removes carbon dioxide.
3. Understand that asthma can affect the respiratory system in people and other animals, making it difficult to breathe.
4. Understand that asthma cannot be cured, but the signs can be decreased by avoiding triggers and using medications.

Exhibit Walk-Through

This exhibit features six interlocking panels that include an introduction and the following:

- **Let’s Build A Respiratory System**: Shares information about both the upper and lower respiratory systems of horses, cats, and people.
- **Let’s Take A Closer Look At Lungs**: Offers an interactive video of a horse’s respiratory system.
- **Asthma!**: Presents facts about asthma in different species such as horses, cats, and humans. Visitors can also feel what it is like to breathe with asthma through a hands-on activity.
- **Helping People & Other Animals With Asthma**: Looks at asthma triggers and how to avoid them. Visitors can see real asthma inhalers for people, horses, and cats.
- **See What You’ve Learned**: Invites visitors to take a quiz on a touchscreen.
Hot Dog’s Fitness Challenge
Hot Dog needs to get back into shape (like 44% of all dogs). Discover how obesity can lead to other health concerns and learn about healthy food and exercise choices. Join Hot Dog on his “fitness challenge” featuring steps, a punching bag, and other activities for staying in shape.

Learning Objectives
1. Understand and be able to perform body condition scoring in dogs.
2. Understand some relationships between body condition and health issues in animals and people.
3. Understand healthy food choices in animals and people.
4. Understand how exercise burns calories.

Exhibit Walk Through
- **Body Conditions**: Shows how to tell if a dog is overweight by feeling models of thin to obese dogs.
- **Health Conditions Associated with Excess Weight**: Explores how obesity can lead to other health concerns like diabetes and heart problems.
- **Healthy Food Choices**: Challenges visitors to identify the healthiest treats for dogs.
- **Fitness Challenge**: Features steps, a punching bag, and much more.
- **Be a Fitness Winner**: Hot Dog provides some walking tips, which helped him take off some pounds.
**Lucky’s Back**

Meet Lucky, a dachshund who was treated for injuries sustained in a car accident. Discover how the nervous systems of people and dogs are alike. Hands-on activities and a video help visitors see how the nervous system works, what happens when injuries occur, and how to help people and animals with spinal cord injuries.

**Learning Objectives**

1. Understand that the nervous system of dogs and people work the same way.
2. Understand that the nervous system sends and receives signals.
3. Understand that injuries can prevent signals from being sent along the nervous system.
4. Understand that injured spinal cords can sometimes be repaired.

**Exhibit Walk-Through**

*Lucky’s Back* begins with meeting Lucky and the medical team at the Purdue University Veterinary Teaching Hospital.

- **Let’s Build A Nervous System**: Learn the parts of the nervous system and explore the layers of a dog’s nervous system with Lucky.
- **Let’s Take A Closer Look And Learn Neuroanatomy**: Watch a video that shows how different parts of the nervous system work together.
- **Sending-Receiving Information**: Demonstrates how the nervous system sends and receives signals, and lets visitors discover the nervous system in action.
- **Helping People And Dogs With Spinal Cord Injury**: Examine real radiographs of spinal cord injuries, and learn how medicines and surgery can help injured dogs and people. Practice being a surgeon and repair a broken back.
- **What Have You Learned**: Take Lucky’s computer quiz about the nervous system.
Tucker’s Trials

Your guide to discovering new medicines is Tucker, a golden retriever who was treated for bladder cancer. Visitors will see how scientists discover medicines in laboratories and understand what it takes to get new medicines approved for use in people. An interactive video walks visitors through the phases of a clinical trial.

Learning Objectives

1. Understand that animals play important roles in the development of new medicines that help both people and animals.
2. Understand that human clinical trials are important in developing treatments for illnesses and injuries.
3. Understand that human clinical trials are very expensive and require lots of time and volunteers.
4. Understand that human clinical trials test new treatments to make sure that they are safe, effective, and better than current treatments.

Exhibit Walk-Through

Tucker’s Trials begins with two panels where visitors meet Tucker, his pal Lucky, his family, and the medical team at the Purdue University Veterinary Teaching Hospital.

• Clinical Trials: Explores what it takes to make sure that new medicines are safe and effective for people. Tucker is your guide in a video that describes the different phases of clinical trials. Visitors can quiz themselves on what they have learned.

• Animals Helping People: Describes actual research taking place at Purdue University to discover new medicines that help animals and people.
General Information

Target Audience
3rd through 9th graders and their families

Category
Health and Science

Square Footage
1,000 (the exhibits are 7.4 feet tall)

Construction Materials
Vinyl, Korex™, Wood

Security
Medium

Educational Materials
Fat Dogs and Coughing Horses is supported by several lesson plans and educational resources that may be downloaded for free at: www.vet.purdue.edu/engagement/sepa/

Materials include:
• 3rd Grade Curriculum
• 6th Grade Curriculum
• 9th Grade Curriculum
• Fitness Handout
• Foreign Body Bingo
• How I Became A Scientist Activity Book
• Fat Dogs and Coughing Horses: Be the Vet! Solve the Case! Activity Book
• How I Became A Veterinarian Chapter Book
• Let’s Cure Cancer Book
Rental Fees

Fat Dogs and Coughing Horses rents for $9,500, plus in-bound shipping (in crates), for a 3-month period. Special pricing is available for those who’d like to rent one or more exhibits (the rental period for each exhibit is three months) at the following rates:

1 exhibit — $3,000 plus in-bound shipping
2 exhibits — $5,000 plus in-bound shipping
3 exhibits — $7,500 plus in-bound shipping
4 exhibits — $9,500 plus in-bound shipping

Shipping

Each exhibit is delivered in three crates, each measuring 36” deep, 72” high and 97” wide. A pallet jack is required. Hot Dog’s Fitness Challenge has additional equipment: a 2-step staircase and a punching bag that requires water in its base to keep it weighed down.

For further information contact:
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Fat Dogs and Coughing Horses

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