Deep dives of

marine animals

what has long mystified them -

ousands of feet. Underwater

ressure partially collapses the

how ocean mammals can dive

ing of whales, seals and

olphins, allowing them to

ink. The rest of the lung

remains inflated, aiding in

ne ascent. Here is the

lue whale

275 feet

eals are able to dive the

nearly a mile. Here are the

depths of the dives for the

20 minutes before surfacing.

deepest - some up to

cientist now think they understand

Bottlenose dolphin

serve energy by free-falling during deep ocean dives.

nmals to videotape their activity below the surface.

by gliding and not swimming," Davis said.

Lung

Cartilage

1,092 feet

Dr. Randall Davis, a marine biologist at Texas A&M University-Galveston, and

Davis said scientists have wondered how the mammals can stay underwater for

ong. The Weddell seal, for example, can dive as deep as 1,600 feet and stay there

To observe the mammal's behavior, Davis attached cameras to four kinds of sea

The animals are putting their oxygen supply on reserve. They know they can do

The scientists reported their research in the current issue of Science.

team of researchers showed that sea mammals such as seals, dolphins and whales

During descent, the lower lung

ollapses as the body compresse from the pressure of water. The upper lungs are supported by

cartilage which maintains its shape for ascent.

Blue whale fills and expands lungs on

the surface before

Pressure

sea level

400

800

1,000

diving.

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Hastings said he does no oubts about the validity or ne documents.

"Absolutely none... I good of to overstate the case," less ide documents and allow per leir own conclusions."

Hastings also informshisal ow they can obtain these don "The time has come for he ent to be forthright with the cople regarding its knowleds."

astings said.
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What's up, doc?

Veterinarians warn of diseases spread from animals to humans

BY NONI SRIDHARA

The Battalion

The faces of many young kids will light up this month as they wake to find that in their Easter baskets the Easter bunny has brought them cute cuddly chicks and real live bunny rabbits.

However, once one realizes the various diseases these lovable animals can carry, they might

not seem so cute anymore.

Dr. Leon Russell, a Texas A&M professor of veterinary medicine and anatomy said there are a wide range of diseases that can spread from animals to humans, known as zoonotic diseases, that frequently occur.

"There might not be some occurrence of a zoonotic disease everyday, but the Center for Disease Control (CDC) keeps track of the most recent occurrences and where they are located," he said.

Russell said there are more than 200 known

"While most of these are rare here in the United States, there are a couple dozen that are common and can be fatal," he said. One of the most common diseases is salmonella. Salmonella is a bacterial disease which is found in poultry, eggs and uncooked meat. Russell said this disease alone can kill thousands of people every year, but it is one of the most preventable.

One way of preventing salmonella is to thoroughly clean cutting boards, use different knives to cut chicken and other foods and to wash hands between handling poultry and handling other food products.

It is commonly known that salmonella can be transmitted by ingesting chicken, but many people are unaware that you can contract the disease by just handling the animal, according to Dr. Leslie Wilson, a small animal veterinarian for the Wellborn Animal Clinic.

"Salmonella can be transferred through the feces of the chicken, so people should be be cautious of not to directly touch these areas in the process of cleaning," she said.

While most rabbits around this time are auditioning for the coveted job as Cadbury bunny, others are infected with tularemia.

Tularemia causes skin lesions, high fever and and swollen lymph nodes, according to Russell.

Another zoonotic disease, anthrax, has been in the news lately because of fears that anthrax spores can be used as a biological weapon and because of resistance by some military personnel from being injected with a vaccine they fear to be dangerous. But the disease is also of general concern.

According to officials at the CDC, anthrax is an acute infectious disease cause by the spore-forming bacterium Bacillus anthracis, which occurs in warm-blooded animals but can also infect humans.

A CDC official reported that although anthrax is not typically reported in high volumes in the United States, most of the reports of animal infection as

most of the reports of animal infection are received from Texas, Louisiana, Mississippi, Oklahoma and South Dakota.

The CDC said the anthrax infection can occur in three forms: cutaneous, inhalation and gastrointestinal. The anthrax spores can live in the soil for many years, and humans can become infected with anthrax by handling animal products from infected animals or by inhaling anthrax spores from contaminated animal products. This disease can also be spread by eating undercooked meat.

Wilson said since she only deals with small animals, the majority of the pets she sees are domestic animals such as dogs and cats.

"The most common zoonotic diseases that I come across are fungal diseases such as ring-

COMMON ZOONOTIC DISEASES

DISEASE ANIMAL SYMPTOMS METHOD OF TRANSMISSION

Salmonella Poultry, eggs, and raw meat problems Ingesting and handling live chickens

Anthrax Livestock Colds, death Inhaling spores from animal products

Skin lesions, high fever, swollen lymph glands

Leptospirosis Cattle and dogs Similar to infectious viral hepatitis, fever, chills, kidney damage urine from infected animals

Toxoplasmosis Cats Especially dangerous to pregnant women, possibly causing birth defects

Brucellosis Cows Causes high fever the absence with light and the serious will a special problem.

JEFF SMITH/THE BATTALION

handling animals

worm and mange," she said.

So does this mean people should lock up their pets and never be around animals again for fear of contracting some wild zoonotic disease? Not at all, but they should take preventive measures.

Even though a stray dog's sad "puppy-dog eyes" or a stray cats soft purrs may make it difficult to refuse petting them, Wilson warned if there is a visible disease such as rabies or mange, the best solution is to call the local animal shelter and not directly handle the animal.

Russell said most of the preventive measures are common sense. "If you wash your hands after handling animals and pets, avoid kissing dogs or cats near their mouths, treat bites effectively and keep litter boxes and bird cages clean, this should ease any worries animal or pet owners might have" he said

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