CHRONIC WASTING DISEASE

THURSDAY, SEPTEMBER 08, 2022

APHIS Indemnity Regulations [Docket No. APHIS-2021-0010] Singeltary Comment Submission

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I would kindly like to comment on;

https://www.govinfo.gov/content/pkg/FR-2022-09-07/html/2022-19260.htm

> Part 54 contains our regulations governing indemnifications for season with the truth.

> sheep and goats,

> disease in captive cervids.

USDA Indemnity Values for 2022: Commercial Table

https://www.aphis.usda.gov/animal health/downloads/usdacommercial-values-2022.pdf

ACTION

Advance notice of proposed rulemaking and request for comments.

SUMMARY

We are soliciting public comment on a new approach to indemnity value determination and a new framework for the indemnity regulations. These parts address payment of indemnity for the destruction and disposition of animals the Animal and Plant Health Inspection Service (APHIS) classifies as infected with, suspect of, or exposed to diseases of concern, to eradicate and control foreign animal diseases, emerging diseases, and program diseases. The current regulations for valuing animals for the purpose of indemnification vary from species to species and, in some cases, disease to disease within a species. The new approach would harmonize how APHIS determines animal values and deals with costs associated with transportation, cleaning, disposal, and other points at which variations occur in how APHIS manages indemnity and compensation.

ABOUT ME



TERRY S. SINGELTARY BACLIFF, TEXAS, UNITED STATES

My mother was murdered by what I call corporate and political homicide i.e. FOR PROFIT! she died from a rare phenotype of CJD i.e. the Heidenhain Variant of Creutzfeldt Jakob Disease i.e. sporadic, simply meaning from unknown route and source. I have simply been trying to validate her There is a route, and there is a source.

There are many here in the USA. WE > while part 55 contains our regulations governing indemnification for chronic wasting of all age groups 'reportable' Nationally and Internationally, with a written CJD questionnaire asking real questions pertaining to route and source of this agent. Friendly fire has

the potential to play a huge role in the continued transmission of this agent via the medical, dental, and surgical arena. We must not flounder any longer. ...TSS

VIEW MY COMPLETE PROFILE

PREVIOUS POSTS

Exploring the possibility of CWD transmission thro...

Texas Chronic Wasting Disease Discovered at a Deer...

Texas CWD Count As Of Late August 2022 Totals 376 ...

Transmission of cervid prions to humanized mice de...

North Carolina Second Deer Tests Positive for CWD

Wisconsin Waukesha County Herd Depopulated After C...

Texas Proposed Amendments to CWD Zone Rules Singel...

KANSAS CWD TSE PrP As of 30 June 2021, CWD has bee...

DATES

We will consider all comments that we receive on or before November 7, 2022.

ADDRESSES

You may submit comments by either of the following methods:

- Federal eRulemaking Portal: Go to www.regulations.gov. Enter APHIS-2021-0010 in the Search field. Select the Documents tab, then select the Comment button in the list of documents.
- Postal Mail/Commercial Delivery: Send your comment to Docket No. APHIS-2021-0010, Regulatory Analysis and Development, PPD, APHIS, Station 3A-03.8, 4700 River Road, Unit 118, Riverdale, MD 20737-1238.

Supporting documents and any comments we receive on this docket may be viewed at *Regulations.gov* or in our reading room, which is located in Room 1620 of the USDA South Building, 14th Street and Independence Avenue SW, Washington, DC. Normal reading room hours are 8 a.m. to 4:30 p.m., Monday through Friday, except holidays. To be sure someone is there to help you, please call (202) 799-7039 before coming.

FOR FURTHER INFORMATION CONTACT

Dr. Michael Carter, Commodity Policy Advisor, Strategy and Policy, Veterinary Services, 4700 River Road, Riverdale MD 20737; Phone: (301) 851-3510.

https://www.regulations.gov/document/APHIS-2021-0010-0001

https://downloads.regulations.gov/APHIS-2021-0010-0001/content.pdf

APHIS Indemnity Regulations [Docket No. APHIS-2021-0010] Singeltary Comment Submission

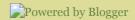
***> My comments on APHIS Indemnity Regulations [Docket No. APHIS-2021-0010] RIN 0579-AE65 Singeltary Comment Submission as follows;

I have commented on Indemnity Payouts before, or what i called 'entitlement program' for Captive Deer Farming to farm Chronic Wasting Disease CWD, Transmissible Spongiform Encephalopathy TSE, Prion disease, and i will say it again here;

***> 4th Captive Farmed Cervid, INDEMNITY, NO MORE Federal indemnity program, or what i call, ENTITLEMENT PROGRAM for game farm industry. NO MORE BAIL OUTS FROM TAX PAYERS. if the captive industry can't buy insurance to protect not only themselves, but also their customers, and especially the STATE, from Chronic Wasting Disease CWD TSE Prion or what some call mad

TEXAS Letter from Trophy Ranch to Governor Abbott ...

More than 300 deer will be killed at a Wisconsin f...



Subscribe to Posts [Atom] deer disease and harm therefrom, IF they can't afford to buy that insurance that will cover all of it, then they DO NOT GET A PERMIT to have a game farm for anything. This CWD TSE Prion can/could/has caused property values to fall from some reports in some places. roll the dice, how much is a state willing to lose?

Control of Chronic Wasting Disease OMB Control Number: 0579-0189 APHIS-2021-0004 Singeltary Submission

https://www.regulations.gov/comment/APHIS-2021-0004-0002

https://downloads.regulations.gov/APHIS-2021-0004-0002/attachment_1.pdf

Docket No. APHIS-2018-0011 Chronic Wasting Disease Herd Certification

https://www.regulations.gov/document/APHIS-2018-0011-0003

https://downloads.regulations.gov/APHIS-2018-0011-0003/attachment_1.pdf

TO LET these deer farms continue to flagrantly go around regulations set up to help stop CWD, and then when said deer farm, breeder, shooting pens, sperm mill, horn mill, velvet mill, goes on to contract CWD, they then get thousands and thousands of dollars of tax payer money for continued violations of said CWD rules, it's like it pays to get CWD for these game farms. This is totally wrong and should not happen imo.

THIS FREE CASH GIVE AWAY MUST STOP, TO FARM CWD\$\$\$

Taxpayers paid more than \$500,000 for deer farm buyouts the last three years

By Tony Kennedy Star Tribune MARCH 13, 2020 — 7:42AM

https://www.startribune.com/taxpayers-paid-more-than-500-000-for-deer-farm-buyouts-the-last-three-years/568739082/

The state's plan to depopulate Maple Hill Farm will go down as the largest CWD-related deer farm depopulation in Wisconsin history—both in the number of animals removed and the size of the indemnity payment. The federal fund allows for a maximum payment of \$3,000 per animal, so for 350 deer, that would be a roughly \$1.5 million paycheck.

Wisconsin currently has 301 registered deer farms with 38 considered CWD-positive, according to **state data**. Twenty of those 38 farms have been depopulated with indemnity paid to the owners.

https://www.outdoorlife.com/conservation/300-deer-killed-deer-farm-wisconsin-cwd/

IF YOU STOP PAYING TO HAVE CWD ON THESE GAME FARMS, THEY WILL STOP FARMING THEM.

***> 4th Captive Farmed Cervid, INDEMNITY, NO MORE Federal indemnity program, or what i call, ENTITLEMENT PROGRAM for game farm industry. NO MORE BAIL OUTS FROM TAX PAYERS. if the captive industry can't buy insurance to protect not only themselves, but also their customers, and especially the STATE, from Chronic Wasting Disease CWD TSE Prion or what some call mad deer disease and harm therefrom, IF they can't afford to buy that

insurance that will cover all of it, then they DO NOT GET A PERMIT to have a game farm for anything. This CWD TSE Prion can/could/has caused property values to fall from some reports in some places. roll the dice, how much is a state willing to lose?

Control of Chronic Wasting Disease OMB Control Number: 0579-0189 APHIS-2021-0004 Singeltary Submission

https://www.regulations.gov/comment/APHIS-2021-0004-0002

https://downloads.regulations.gov/APHIS-2021-0004-0002/attachment_1.pdf

Docket No. APHIS-2018-0011 Chronic Wasting Disease Herd Certification

https://www.regulations.gov/document/APHIS-2018-0011-0003

https://downloads.regulations.gov/APHIS-2018-0011-0003/attachment_1.pdf

PLUS, IF THESE NEW/OLD FINDINGS THAT IT'S POSSIBLE FOR CWD transmission through artificial insemination of semen from CWD positive bucks, MY GOD, indemnity will then have to be paid out to game farms all across the USA and abroad.

THE PAY TO PLAY CWD MUST STOP\$\$\$ ASAP\$\$\$

Research Project: Elucidating the Pathobiology and Transmission of Transmissible Spongiform Encephalopathies Location: Virus and Prion Research

Title: Exploring the possibility of CWD transmission through artificial insemination of semen from CWD positive bucks

Author

Cassmann, Eric

Greenlee, Justin

Submitted to: North American Deer Farmer

Publication Type: Trade Journal

Publication Acceptance Date: 7/1/2022

Publication Date: 7/20/2022

Citation: Cassmann, E.D., Greenlee, J.J. 2022.

Exploring the possibility of CWD transmission through artificial insemination of semen from CWD positive bucks. North American Deer Farmer. p. 107-109.

Interpretive Summary:

Technical Abstract: Artificial insemination is a popular method for herd management and reproduction in the cervid farming industry. There are numerous benefits including increased access to superior genetics, convenience, and increased farm revenue. In this article, we summarize the research that is underway to determine if semen from a CWD infected buck can transmit the disease. Some research has already been performed on the reproductive transmission of CWD in cervids. Scientists from Colorado State University used Muntjac deer to demonstrate that CWD positive does could transmit CWD to their fawns (1). In the study, Muntjac does were bred to CWD negative bucks. At the time of breeding, does were either in the early or late stage of CWD infection. Fawns from both doe groups were positive for CWD. More recent laboratory experiments on semen from CWD positive bucks have demonstrated the presence of CWD prions (2). Researchers used an amplification technique called PMCA (protein misfolding cyclic amplification). The technique amplifies low levels of CWD prions to a point where conventional antibody methods can detect them. The caveat to the discovery of CWD prions in semen is that we're unsure if the amount of CWD prions in semen is biologically relevant. In other words, is the level of CWD prions in semen sufficient to be infectious and cause disease in deer? In our present study, we are trying to answer that question. We obtained semen from a CWD positive buck. The semen was confirmed to be PMCA positive. For the study, we used the transcervical insemination method in three does. As of June 19th, a single fawn was born. Shortly after birth the fawn was separated to prevent environment CWD exposure. We are assessing both the does and the fawn for the development of CWD. The experiment is expected to last several years, and periodic sampling will help monitor progress. A second phase of the study will investigate the absolute susceptibility of white-tailed deer does to CWD after transcervical and/or vaginal exposure to large amounts of CWD prions. We plan to expose two does to brain suspension from a CWD positive deer. These does will also be monitored long term for the development of disease. If these does remain negative, it would indicate that CWD transmission to the dam is highly unlikely via reproductive tract exposure.

https://www.ars.usda.gov/research/publications/publication/?seqNo115=395853

TUESDAY, DECEMBER 31, 2019

In Vitro detection of Chronic Wasting Disease (CWD) prions in semen and reproductive tissues of white tailed deer bucks (Odocoileus virginianus TEXAS CWD, Have you been ThunderStruck, deer semen, straw bred bucks, super ovulation, and the potential TSE Prion connection, what if?

https://chronic-wasting-disease.blogspot.com/2019/12/in-vitro-detection-of-chronic-wasting.html

SUNDAY, FEBRUARY 16, 2020

***> Jerking for Dollars, Are Texas Politicians and Legislators
Masturbating Deer For Money, and likely spreading CWD TSE
Prion?

https://chronic-wasting-disease.blogspot.com/2020/02/jerkingfor-dollars-are-texas.html

THURSDAY, JULY 10, 2014

supercalifragilisticexpialidocious or superovulationcwdtsepriondocious?

(It was noted with concern that hormone extracts could be manufactured by a veterinary surgeon for administration to animals under his care without any Medicines Act Control.) PITUITARY EXTRACT This was used to help cows super ovulate.

*** This tissue was considered to be of greatest risk of containing BSE and consequently transmitting the disease. ***

http://www.bseinquiry.gov.uk/files/yb/1988/06/08011001.pdf

NEW URL LINK:

http://web.archive.org/web/20090718143059/http://www.bseinquiry.gov.uk/ files/yb/1988/06/08011001.pdf http://chronic-wastingdisease.blogspot.com/2014/07/supercalifragilisticexpialidociousor.html Proposed Amendments to CWD Zone Rules Your opinions and comments have been submitted successfully. Thank you for participating in the TPWD regulatory process. https://tpwd.texas.gov/business/feedback/public_comment/proposals/202208_cwd.phtml THURSDAY, AUGUST 04, 2022 Texas Proposed Amendments to CWD Zone Rules Singeltary Submission https://chronic-wasting-disease.blogspot.com/2022/08/texas-proposed-amendments-to-cwdzone.html Control of Chronic Wasting Disease OMB Control Number: 0579-0189 APHIS-2021-0004 Singeltary Submission https://www.regulations.gov/comment/APHIS-2021-0004-0002 https://downloads.regulations.gov/APHIS-2021-0004-0002/attachment 1.pdf Docket No. APHIS-2018-0011 Chronic Wasting Disease Herd Certification https://www.regulations.gov/document/APHIS-2018-0011-0003 https://downloads.regulations.gov/APHIS-2018-0011-0003/attachment_1.pdf Texas Chronic Wasting Disease Discovered at a Deer Breeding Facility in Gillespie County Media Contacts: TAHC Communications public_info@tahc.texas.gov, 512.719.0750 TPWD Press Office news@tpwd.texas.gov, 512.389.8030 For Immediate Release

Chronic Wasting Disease Discovered at a Deer Breeding Facility in Gillespie County

AUSTIN, TX – Chronic Wasting Disease (CWD) has been discovered in a deer breeding facility in Gillespie County. The 1 Parks and Wildlife Department (TPWD) and Texas Animal Health Commission (TAHC) are collaboratively working to determine the source and extent of the first positive detection of the disease in this county.

After the mortality of a white-tailed deer on the premises was identified, tissue samples from the one-year-old buck were submitted by the deer breeding facility as part of a required CWD surveillance program. The samples were tested at the 1 A&M Veterinary Medical Diagnostic Laboratory (TVMDL) in College Station on August 17 and indicated the presence of C The National Veterinary Services Laboratory in Ames, Iowa confirmed CWD in those tissue samples on August 30.

Immediate action has been taken to secure all deer located at the facility and plans to conduct additional CWD investigati are underway. Additionally, other breeding facilities that received deer or shipped deer to this facility, during the last five you have been identified and placed under movement restrictions.

"Response staff are diligently working to conduct epidemiological investigations, but the nature of the disease makes defifindings difficult to determine," said Dr. Andy Schwartz, TAHC State Veterinarian. "The incubation period of CWD can spa years creating disease detection and management challenges."

Animal health and wildlife officials will investigate to determine the ext<mark>ent of the disease within the facility and mitigate risl</mark>
Texas' CWD susceptible species. Quick detection of CWD can help mitigate the disease's spread.

"The discovery of CWD in this breeding facility is an unfortunate situation that TPWD and TAHC take very seriously," said John Silovsky, Wildlife Division Director for TPWD. "Both agencies will respond appropriately to this matter to protect the state's susceptible species from further disease exposure."

First recognized in 1967 in captive mule deer in Colorado, CWD has since been documented in captive and/or free-rangir deer in 30 states and three Canadian provinces. To date, 376 captive or free-ranging cervids — including white-tailed deer mule deer, red deer and elk — in 15 Texas counties have tested positive for CWD. For more information on previous detections visit the CWD page on the TPWD website.

Testing for CWD allows wildlife biologists and animal health officials to get a clearer picture of the prevalence and distribut of the disease across Texas. Proactive monitoring improves the state's response time to a CWD detection and can greatly reduce the risk of the disease further spreading to neighboring captive and free-ranging populations. With each discovery new CWD positive area in the state, CWD zones are established as a strategy to manage and contain the disease. TPWI officials will be working towards delineating and establishing a new zone in Gillespie County to be implemented later this

Hunters in surveillance and containment zones must meet submission requirements of harvested CWD susceptible speci TPWD will be providing additional information to landowners and hunters in Gillespie County regarding CWD sampling locations and options to have their deer tested. Additionally, hunters outside of established surveillance and containment zones are encouraged to voluntarily submit their harvest for testing at a check station, for free, before heading home from field. A map of TPWD check stations for all CWD zones can be found on the TPWD website.

CWD is a fatal neurological disease found in certain cervids, including deer, elk, moose and other members of the deer fa The disease is highly transmissible and can remain infectious on the landscape for several years. If left unmanaged, CWI can have long-term impacts on the native deer herd and local economies. Clinical signs may include progressive weight I stumbling or tremors with a lack of coordination, excessive thirst, salivation or urination, loss of appetite, teeth grinding, abnormal head posture and/or drooping ears. These signs may not become evident until long after animals have become infected. Therefore, testing is the best tool available for detecting CWD at an early stage and containing it with appropriat management strategies.

To date there is no evidence that CWD poses a risk to humans or non-cervids. However, as a precaution, the U.S. Center Disease Control and the World Health Organization recommend not to consume meat from infected animals.

For more information about CWD, visit the TPWD web site or the TAHC web site.

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https://www.tahc.texas.gov/news/2022/2022-09-02_CWD-GillespieCo.pdf

Texas CWD Count As Of Late August 2022 Totals 376 TPWC Implements Two Year Surveillance Zone Four Counties

TPW Commission Implements Two Year Chronic Wasting Disease Surveillance Zone in Four Counties

Sept. 1, 2022 Media Contact: TPWD News, Business Hours, 512-389-8030

AUSTIN— A surveillance zone covering almost 200,000 acres in Duval, Jim Wells, Live Oak and McMullen counties will t implemented for two years after feedback was received in the August meeting of the Texas Parks and Wildlife (TPW) Commission. This zone will take effect prior to the 2022-2023 hunting season and TPW commissioners will consider the resulting data presented by Texas Parks and Wildlife Department (TPWD) staff to assess the need for continued surveilla in the established zone.

This zone will include land between U.S. Highway 281 to the east, Farm to Market Road 624 to the north and U.S. Highw 59 to the west. The southern border follows a series of roads including County Road 101, Highway 44, County Roads 145 172, 170, and 120.

This zone also includes the cities of Alice and Freer, as well as highways 59, 44, and 281 between the cities and the mair body of the surveillance zone. This will provide a legal means for hunters to transport whole carcasses to deer-processing facilities and/or CWD check stations located in those cities rather than having to quarter the carcasses first.

As of late August 2022, 376 captive or free-ranging cervids — including white-tailed deer, mule deer, red deer and elk — Texas counties have tested positive for CWD. First recognized in 1967 in captive mule deer in Colorado, CWD has since documented in captive and/or free-ranging deer in 30 states and three Canadian provinces.

Testing for CWD allows wildlife biologists to get a clearer picture of the presence of the disease statewide. Proactive monitoring improves the state's response time to a CWD detection and can greatly reduce the risk of the disease spreadineighboring captive and free-ranging deer populations.

Hunters outside of established surveillance and containment zones are encouraged to voluntarily submit their harvest for testing at a check station for free before heading home from the field. A map of TPWD check stations can be found on the TPWD website.

CWD is a fatal neurological disease found in certain cervids, including deer, elk, moose and other members of the deer father disease is highly contagious, never goes dormant and can remain infectious on the landscape for several years. If let unmanaged, CWD can have long-term impacts on the native deer herd and local economies. Symptoms may not become evident until long after animals have become infected, so testing is the best tool available for detecting CWD at the earlies stage of infection possible and containing it with appropriate management strategies. Clinical signs may include progress weight loss, stumbling or tremors with a lack of coordination, excessive thirst, salivation or urination, loss of appetite, teet grinding, abnormal head posture and/or drooping ears.

To date there is no evidence that CWD poses a risk to humans or non-cervids. However, as a precaution, the U.S. Center Disease Control and the World Health Organization recommend against consuming meat from infected animals.

For more information about CWD, visit the TPWD web site or the TAHC web site.

https://tpwd.texas.gov/newsmedia/releases/?req=20220901a

THURSDAY, SEPTEMBER 01, 2022

Texas CWD Count As Of Late August 2022 Totals 376 TPWC Implements Two Year Surveillance Zor Four Counties

https://chronic-wasting-disease.blogspot.com/2022/09/texas-cwd-count-as-of-late-august-2022.html

CWD Positives in Texas

CWD Positive

Confirmation Date Free Range/Captive County Source Species Sex Age

pending	Breeder Deer Hur	nt Facility #9	White-ta	ailed Deer	F	3.9			
pending	Breeder Deer Hur	nt Facility #9	White-ta	iled Deer	М	1.8			
N/A Fre	e Range Hartley	N/A Mule Deer	M 5.5						
2022-05	27 Free Range	El Paso N/A	Mule Deer	M 3.5					
2022-05	25 Free Range	El Paso N/A	Mule Deer	M 4.5					
2022-04	-21 Breeder Relea	ase Site Medi	na Facility #	#4 Whit	e-taile	ed Deer	М	4.5	
2022-04	-21 Breeder Relea	ase Site Medi	na Facility #	#4 Whit	e-taile	ed Deer	М	4.5	
2022-04	07 Free Range	El Paso N/A	Mule Deer	F 4.5					
2022-04	-07 Free Range	Hudspeth N/A	Mule Deer	M 8.5					
2022-02	-28 Breeder Deer	Hunt Facili	y #9 Wh	nite-tailed D	eer	M 1.9			
2022-02	-18 Breeder Deer	Kimble Facili	y #6 Wh	nite-tailed D	eer	Unknown	3.5		
2022-01	25 Free Range	Medina N/A	White-tailed [Deer F	5.5				
2022-01	-12 Breeder Deer	Hunt Facili	y #9 Wh	nite-tailed D	eer	M 1.5			
2022-01	-12 Breeder Deer	Hunt Facili	y #9 Wh	nite-tailed D	eer	F 3.5			
2022-01	12 Breeder Relea	ase Site Medi	na Facility #	#3 Red	Deer	F 4.5			
2022-01	12 Free Range	Hartley N/A	White-tailed [Deer M	3.5				
2022-01	12 Free Range	Hartley N/A	Mule Deer	M 5.5					
2022-01	12 Free Range	Hartley N/A	Mule Deer	M 4.5					
2022-01	12 Free Range	Hartley N/A	Mule Deer	M 5.5					
2022-01	12 Free Range	Hartley N/A	Mule Deer	F 3.5					
2022-01	-12 Breeder Deer	Kimble Facili	y #6 Wh	nite-tailed D	eer	Unknown	5.5		
2022-01	12 Free Range	Hartley N/A	Mule Deer	M 3.5					
2022-01	-12 Free Range	Hartley N/A	Mule Deer	M 7.5					
2022-01	-10 Free Range	Medina N/A	White-tailed [Deer M	4.5				
2022-01	-10 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.3		
2022-01	-10 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	2.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer F	1.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01			ies #7 & 8	White-tail			1.4		
2022-01	-07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01	07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		
2022-01	-07 Breeder Deer	Uvalde Facili	ies #7 & 8	White-tail	ed De	eer M	1.4		

2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		1.4
	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		2.4
	Breeder Deer Uvalde		White-tailed Deer		
2022-01-07		Facilities #7 & 8			1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer		1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	5.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	3.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	3.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	3.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	3.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	2.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	M	1.4
2022-01-07	Breeder Deer Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4

2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	3.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	2.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	2.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	2.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	2.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	2.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	2.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	F	1.4
2022-01-07	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	5.4
2022-01-06	Free Range	Medina	N/A White-tailed D	eer M 2.5		
2021-12-28	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	3.4
2021-12-28	Breeder Deer	Uvalde	Facilities #7 & 8	White-tailed Deer	М	3.4
2021-12-13	Free Range	Medina	N/A White-tailed D	eer M 3.5		
2021-12-13	Breeder Deer	Duval	Facility #13 Whit	te-tailed D <mark>eer F</mark>	4.4	

Showing 1 to 100 of 369

National CWD Tracking Map

snip... see full listing of CWD positives at;

https://tpwd.texas.gov/huntwild/wild/diseases/cwd/tracking/

"Regarding the current situation involving CWD in permitted deer breeding facilities, TPWD records indicate that within the last five years, the seven CWD-positive facilities transferred a total of 2,530 de to 270 locations in 102 counties and eight locations in Mexico (the destinations included 139 deer breeding facilities, 118 release sites, five Deer Management Permit sites, and three nursing facilities) It is apparent that prior to the recent emergency rules, the CWD detection rules were ineffective at detecting CWD earlier in the deer breeding facilities where it was eventually discovered and had been present for some time; this creates additional concern regarding adequate mitigation of the risk of transferring CWD-positive breeder deer to release sites where released breeder deer come into conta with free-ranging deer... Commission Agenda Item No. 5 Exhibit B DISEASE DETECTION AND RESPONSE RULES PROPOSAL PREAMBLE Introduction. snip... A third issue is the accuracy of mortality reporting. Department records indicate that for each of the k five years an average of 26 deer breeders have reported a shared total of 159 escapes. Department records for the same time period indicate an average of 31 breeding facilities reported a shared total 825 missing deer (deer that department records indicate should be present in the facility, but cannot t located or verified). https://tpwd.texas.gov/business/feedback/meetings/2022/1104/agenda/item.phtml?item=5 Counties where CWD Exposed Deer were Released, September 2021

https://tpwd.texas.gov/documents/257/CWD-Trace-OutReleaseSites.pdf

Number of CWD Exposed Deer Released by County, September 2021
https://tpwd.texas.gov/documents/258/CWD-Trace-OutReleaseSites-NbrDeer.pdf
CHRONIC WASTING DISEASE CASESCWD - STATUS OF CAPTIVE HERDS Updated July 2022
https://www.aphis.usda.gov/animal_health/animal_diseases/cwd/downloads/status-of-captive-herds.pdf
PRICE OF CWD TSE PRP POKER GOES UP, WHO'S ALL IN\$\$\$
just out!
Transmission of cervid prions to humanized mice demonstrates the zoonotic potential of CWD
Samia Hannaoui1 · Irina Zemlyankina1 · Sheng Chun Chang1 · Maria Immaculata Arifn1 · Vincent Béringue2 · Debbie McKenzie3 · Hermann M. Schatzl1 · Sabine Gilch1
Received: 24 May 2022 / Revised: 5 August 2022 / Accepted: 7 August 2022
© The Author(s) 2022
Abstract
Driene equae infectious and fatal neurodogenerative discoses in mammale. Chronic westing discoses

Prions cause infectious and fatal neurodegenerative diseases in mammals. Chronic wasting disease (CWD), a prion disease of cervids, spreads efficiently among wild and farmed animals. Potential transmission to humans of CWD is a growing concern due to its increasing prevalence. Here, we provevidence for a zoonotic potential of CWD prions, and its probable signature using mice expressing human prion protein (PrP) as an infection model. Inoculation of these mice with deer CWD isolates resulted in atypical clinical manifestation with prion seeding activity and efficient transmissible infectiving in the brain and, remarkably, in feces, but without classical neuropathological or Western blot appearances of prion diseases. Intriguingly, the protease-resistant PrP in the brain resembled that for in a familial human prion disease and was transmissible upon second passage. Our results suggest to CWD might infect humans, although the transmission barrier is likely higher compared to zoonotic transmission of cattle prions. Notably, our data suggest a different clinical presentation, prion signature.

presence of infectious prions in feces is concerning becau	se if this occurs in humans, it is a source for
human-to-human transmission. These findings have stron	g implications for public health and CWD
management.	
Keywords Chronic wasting disease · CWD · Zoonotic pote	ntial · Prion strains · Zoonotic prions
HIGHLIGHTS OF THIS STUDY	
=======================================	

and tissue tropism, which causes challenges for detection by current diagnostic assays. Furthermore

Our results suggest that CWD might infect humans, although the transmission barrier is likely higher compared to zoonotic transmission of cattle prions. Notably, our data suggest a different clinical presentation, prion signature, and tissue tropism, which causes challenges for detection by current diagnostic assays. Furthermore, the presence of infectious prions in feces is concerning because if the occurs in humans, it is a source for human-to-human transmission. These findings have strong implications for public health and CWD management.

In this study, we evaluated the zoonotic potential of CWD using a transgenic mouse model overexpressing human M129-PrPC (tg650 [12]). We inoculated tg650 mice intracerebrally with two dt CWD isolates, Wisc-1 and 116AG [22, 23, 27, 29]. We demonstrate that this transgenic line was susceptible to infection with CWD prions and displayed a distinct leading clinical sign, an atypical PrF signature and unusual fecal shedding of infectious prions. Importantly, these prions generated by the human PrP transgenic mice were transmissible upon passage. Our results are the first evidence of a zoonotic risk of CWD when using one of the most common CWD strains, Wisc-1/CWD1 for infection. demonstrated in a human transgenic mouse model that the species barrier for transmission of CWD thumans is not absolute. The fact that its signature was not typical raises the questions whether CWD would manifest in humans as a subclinical infection, whether it would arise through direct or indirect transmission including an intermediate host, or a silent to uncovered human-to-human transmission, whether current detection techniques will be sufficient to unveil its presence.

Our findings strongly suggest that CWD should be regarded as an actual public health risk. Here, we humanized mice to show that CWD prions can cross the species barrier to humans, and remarkably, infectious prions can be excreted in feces.

Our results indicate that if CWD crosses the species-barrier to humans, it is unlikely to resemble the most common forms of human prion diseases with respect to clinical signs, tissue tropism and PrPSc

signature. For instance, PrPSc in variable protease-sensitive prionopathy (VPSPr), a sporadic form o human prion disease, and in the genetic form Gerstmann-Sträussler-Scheinker syndrome (GSS) is defined by an atypical PK-resistant PrPSc fragment that is non-glycosylated and truncated at both C-and N-termini, with a molecular weight between 6 and 8 kDa [24, 44–46]. These biochemical features are unique and distinctive from PrPSc (PrP27-30) found in most other human or animal prion disease The atypical PrPSc signature detected in brain homogenate of tg650 mice #321 (1st passage) and #3063 (2nd passage), and the 7–8 kDa fragment (Figs. 2, 4) are very similar to that of GSS, both in terms of migration profile and the N-terminal cleavage site.

CWD in humans might remain subclinical but with PrPSc deposits in the brain with an unusual morphology that does not resemble the patterns usually seen in different prion diseases (e.g., mouse #328; Fig. 3), clinical with untraceable abnormal PrP (e.g., mouse #327) but still transmissible and uncovered upon subsequent passage (e.g., mouse #3063; Fig. 4), or prions have other reservoirs the the usual ones, hence the presence of infectivity in feces (e.g., mouse #327) suggesting a potential for human-to-human transmission and a real introgenic risk that might be unrecognizable.

suggesting a potential for human-to-human transmission and a real iatrogenic risk that might be unrecognizable.

These findings have strong implications for public health and CWD management.

Supplementary Information The online version contains supplementary material available at

https://doi.org/10.1007/s00401-022-02482-9

snip...see full text;

https://link.springer.com/article/10.1007/s00401-022-02482-9

https://link.springer.com/content/pdf/10.1007/s00401-022-02482-9.pdf

EFSA Panel on Biological Hazards (BIOHAZ) Antonia Ricci Ana Allende Declan Bolton Marianne Chemaly Robert Davies Pablo Salvador Fernández Escámez ... See all authors First published: 17 January 2018 https://doi.org/10.2903/j.efsa.2018.5132 also, see; 8. Even though human TSE-exposure risk through consumption of game from European cervids can assumed to be minor, if at all existing, no final conclusion can be drawn due to the overall lack of scientific data. ***> In particular the US data do not clearly exclude the possibility of human (sporadic or familial) TSI development due to consumption of venison. https://efsa.onlinelibrary.wiley.com/doi/full/10.2903/j.efsa.2018.5132 Prion Infectivity in Fat of Deer with Chronic Wasting Disease

∨ Brent Race#, Kimberly Meade-White#, Richard Race and Bruce Chesebro* + Author Affiliations In mice, prion infectivity was recently detected in fat. Since ruminant fat is consumed by humans and to animals, we determined infectivity titers in fat from two CWD-infected deer. Deer fat devoid of muscontained low levels of CWD infectivity and might be a risk factor for prion infection of other species. http://jvi.asm.org/content/83/18/9608.full Prions in Skeletal Muscles of Deer with Chronic Wasting Disease Here bioassays in transgenic mice expressing cervid prion protein revealed the presence of infectious prions in skeletal muscles of CWD-infected deer, demonstrating that humans consuming or handling meat from CWD-infected deer are at risk to prion exposure.

http://science.sciencemag.org/content/311/5764/1117..long Research Paper Cellular prion protein distribution in the vomeronasal organ, parotid, and scent glands of white-tailed and mule deer

Anthony Ness, Aradhana Jacob, Kelsey Saboraki, Alicia Otero, Danielle Gushue, Diana Martinez Moreno, Melanie de Peña, Xinli Tang, Judd Aiken, Susan Lingle & Debbie McKenzieORCID Icon sho less

Pages 40-57 | Received 03 Feb 2022, Accepted 13 May 2022, Published online: 29 May 2022

Download citation

https://doi.org/10.1080/19336896.2022.2079888

ABSTRACT

Chronic wasting disease (CWD) is a contagious and fatal transmissible spongiform encephalopathy affecting species of the cervidae family. CWD has an expanding geographic range and complex, poo understood transmission mechanics. CWD is disproportionately prevalent in wild male mule deer and male white-tailed deer. Sex and species influences on CWD prevalence have been hypothesized to be related to animal behaviours that involve deer facial and body exocrine glands. Understanding CWD transmission potential requires a foundational knowledge of the cellular prion protein (PrPC) in glands associated with cervid behaviours. In this study, we characterized the presence and distribution of Pr in six integumentary and two non-integumentary tissues of hunter-harvested mule deer (Odocoileus hemionus) and white-tailed deer (O. virginianus). We report that white-tailed deer expressed significa more PrPC than their mule deer in the parotid, metatarsal, and interdigital glands. Females expressed more PrPC than males in the forehead and preorbital glands. The distribution of PrPC within the integumentary exocrine glands of the face and legs were localized to glandular cells, hair follicles, epidermis, and immune cell infiltrates. All tissues examined expressed sufficient quantities of PrPC to serve as possible sites of prion initial infection, propagation, and shedding.

https://www.tandfonline.com/doi/full/10.1080/19336896.2022.2079888

Transmission of cervid prions to humanized mice demonstrates the zoonotic potential of CWD

These findings have strong implications for public health and CWD management.

snip...see full text;

https://link.springer.com/article/10.1007/s00401-022-02482-9

https://link.springer.com/content/pdf/10.1007/s00401-022-02482-9.pdf

Transmission of cervid prions to humanized mice demonstrates the zoonotic potential of CWD

https://chronic-wasting-disease.blogspot.com/2022/08/transmission-of-cervid-prions-to.html

Thursday, October 28, 2021

Chronic Wasting Disease (CWD) TSE Prion Zoonosis, friendly fire, iatrogenic transmission, blood products, sporadic CJD, what if?

https://itseprion.blogspot.com/2021/10/chronic-wasting-disease-cwd-tse-prion.html

THURSDAY, SEPTEMBER 01, 2022

Texas CWD Count As Of Late August 2022 Totals 376 TPWC Implements Two Year Surveillance 2 Four Counties

https://chronic-wasting-disease.blogspot.com/2022/09/texas-cwd-count-as-of-late-august-2022.html

WEDNESDAY, SEPTEMBER 07, 2022

Exploring the possibility of CWD transmission through artificial insemination of semen from CWD positive bucks

https://chronic-wasting-disease.blogspot.com/2022/09/exploring-possibility-of-cwd.html

TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHY TSE PRION MAD COW TYPE DISEASE

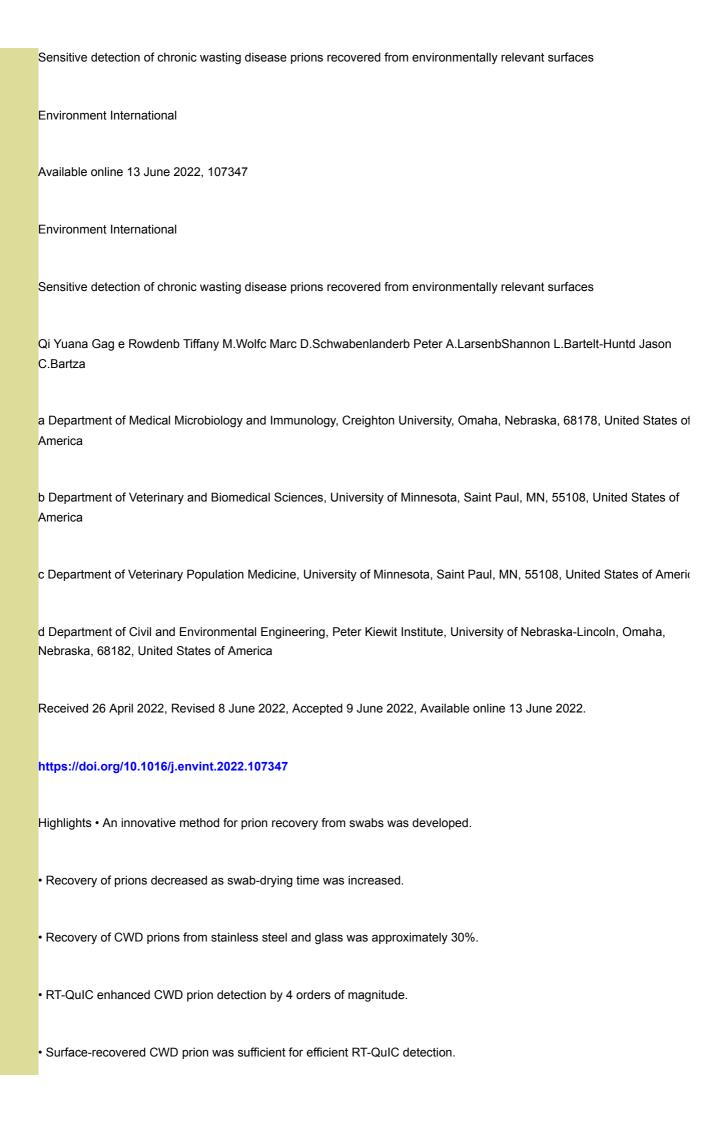
THE tse prion aka mad cow type disease is not your normal pathogen.

The TSE prion disease survives ashing to 600 degrees celsius, that's around 1112 degrees farenheit.

you cannot cook the TSE prion disease out of meat. you can take the ash and mix it with saline and inject that ash into a mouse, and the mouse will go down with TSE. Prion Infected Meat-and-Bone Meal Is Still Infectious after Biodiesel Production as well. the TSE prion agent also survives Simulated Wastewater Treatment Processes. IN fact, you should also know that the TSE Prion agent will survive in the environment for years, if not decades. you can bury it and it will not go away. The TSE agent is capable of infected your water table i.e. Detection of protease-resistant cervid prion protein in water from CWD-endemic area. it's not your ordinary pathogen you can just cook it out and be done with. ***> that's what's so worrisome about latrogenic mode of transmission, a simple autoclave will not kill this TSE prion ager 1: J Neurol Neurosurg Psychiatry 1994 Jun;57(6):757-8 ***> Transmission of Creutzfeldt-Jakob disease to a chimpanzee by electrodes contaminated during neurosurgery. Gibbs CJ Jr, Asher DM, Kobrine A, Amyx HL, Sulima MP, Gajdusek DC. Laboratory of Central Nervous System Studies, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD 20892. Stereotactic multicontact electrodes used to probe the cerebral cortex of a middle aged woman with progressive dementia were previously implicated in the accidental transmission of Creutzfeldt-Jakob disease (CJD) to two younger patients. The diagnoses of CJD have been confirmed for all three cases. More than two years after their last use in humans, after three cleanings and repeated sterilisation in ethanol and formaldehyde vapour, the electrodes were implanted in the cortex of a chimpanzee. Eighteen months later the animal became ill with CJD. This finding serves to re-emphasise the potential dar posed by reuse of instruments contaminated with the agents of spongiform encephalopathies, even after scrupulous atter to clean them. PMID: 8006664 [PubMed - indexed for MEDLINE]

https://www.ncbi.nlm.nih.gov/pubmed/8006664?dopt=Abstract

ENVIRONMENT FACTORS FOR THE TRANSMISSION OF CWD TSE PRP



Abstract

Chronic wasting disease (CWD) has been identified in 30 states in the United States, four provinces in Canada, and rece emerged in Scandinavia. The association of CWD prions with environmental materials such as soil, plants, and surfaces enhance the persistence of CWD prion infectivity in the environment exacerbating disease transmission. Identifying and quantifying CWD prions in the environment is significant for prion monitoring and disease transmission control. A systema method for CWD prion quantification from associated environmental materials, however, does not exist. In this study, we developed an innovative method for extracting prions from swabs and recovering CWD prions swabbed from different typ surfaces including glass, stainless steel, and wood. We found that samples dried on swabs were unfavorable for prion extraction, with the greatest prion recovery from wet swabs. Using this swabbing technique, the recovery of CWD prions of to glass or stainless steel was approximately 30% in most cases, whereas that from wood was undetectable by conventic prion immunodetection techniques. Real-time quake-induced conversion (RT-QuIC) analysis of these same samples result in an increase of the detection limit of CWD prions from stainless steel by 4 orders of magnitude. More importantly, the RQuIC detection of CWD prions recovered from stainless steel surfaces using this method was similar to the original CWD prion load applied to the surface. This combined surface swabbing and RT-QuIC detection method provides an ultrasensi means for prion detection across many settings and applications.

snip...

5. Conclusions

Chronic wasting disease is spreading in North America and it is hypothesized that in CWD-endemic areas environmental persistence of CWD prions can exacerbate disease transmission. The development of a sensitive CWD prion detection method from environmentally relevant surfaces is significant for monitoring, risk assessment, and control of CWD. In this study, we developed a novel swab-extraction procedure for field deployable sampling of CWD prions from stainless steel, glass, and wood. We found that extended swab-drying was unfavorable for extraction, indicating that hydrated storage of swabs after sampling aided in prion recovery. Recoverable CWD prions from stainless steel and glass was approximately 30%, which was greater than from wood. RT-QuIC analysis of the swab extracts resulted in an increase of the detection li of CWD prions from stainless steel by 4 orders of magnitude compared to conventional immunodetection techniques. Mo importantly, the RT-QuIC detection of CWD prions recovered from stainless steel surfaces using this developed method v similar to the original CWD prion load without surface contact. This method of prion sampling and recovery, in combinatio with ultrasensitive detection methods, allows for prion detection from contaminated environmental surfaces.

https://www.sciencedirect.com/science/article/pii/S0160412022002744?via%3Dihub

Research Paper

Cellular prion protein distribution in the vomeronasal organ, parotid, and scent glands of white-tailed (and mule deer

Anthony Ness, Aradhana Jacob, Kelsey Saboraki, Alicia Otero, Danielle Gushue, Diana Martinez Moreno, Melanie de Peña, Xinli Tang, Judd Aiken, Susan Lingle & Debbie McKenzie ORCID Icon show less

Pages 40-57 | Received 03 Feb 2022, Accepted 13 May 2022, Published online: 29 May 2022

Download citation

https://doi.org/10.1080/19336896.2022.2079888

ABSTRACT

Chronic wasting disease (CWD) is a contagious and fatal transmissible spongiform encephalopathy affecting species of the cervidae family. CWD has an expanding geographic range and complex, poo understood transmission mechanics. CWD is disproportionately prevalent in wild male mule deer and male white-tailed deer. Sex and species influences on CWD prevalence have been hypothesized to be related to animal behaviours that involve deer facial and body exocrine glands. Understanding CWD transmission potential requires a foundational knowledge of the cellular prion protein (PrPC) in glands associated with cervid behaviours. In this study, we characterized the presence and distribution of Pr in six integumentary and two non-integumentary tissues of hunter-harvested mule deer (Odocoileus hemionus) and white-tailed deer (O. virginianus). We report that white-tailed deer expressed significa more PrPC than their mule deer in the parotid, metatarsal, and interdigital glands. Females expressed more PrPC than males in the forehead and preorbital glands. The distribution of PrPC within the integumentary exocrine glands of the face and legs were localized to glandular cells, hair follicles, epidermis, and immune cell infiltrates. All tissues examined expressed sufficient quantities of PrPC to serve as possible sites of prion initial infection, propagation, and shedding.

KEYWORDS: Prion chronic wasting diseasesex differences species differences disease prevalence cervid protein expression glands

https://www.tandfonline.com/doi/full/10.1080/19336896.2022.2079888

Paper

Rapid recontamination of a farm building occurs after attempted prion removal

Kevin Christopher Gough BSc (Hons), PhD Claire Alison Baker BSc (Hons) Steve Hawkins MIBiol Hugh Simmons BVSc, MRCVS, MB MA Timm Konold DrMedVet, PhD, MRCVS ... See all authors

First published: 19 January 2019 https://doi.org/10.1136/vr.105054

The data illustrates the difficulty in decontaminating farm buildings from scrapie, and demonstrates the likely contribution of farm dust trecontamination of these environments to levels that are capable of causing disease.

snip...

This study clearly demonstrates the difficulty in removing scrapie infectivity from the farm environment. Practical and effective prion decontamination methods are still urgently required for decontamination of scrapie infectivity from farms that have had cases of scrapie this is particularly relevant for scrapiepositive goatherds, which currently have limited genetic resistance to scrapie within commercial breeds.24 This is very likely to have parallels with control efforts for CWD in cervids.

https://bvajournals.onlinelibrary.wiley.com/doi/abs/10.1136/vr.105054

***>This is very likely to have parallels with control efforts for CWD in cervids.

https://pubmed.ncbi.nlm.nih.gov/30602491/

***> Infectious agent of sheep scrapie may persist in the environment for at least 16 years

***> Nine of these recurrences occurred 14–21 years after culling, apparently as the result of environmental contamination, but outside entry could not always be absolutely excluded.

JOURNAL OF GENERAL VIROLOGY Volume 87, Issue 12

Infectious agent of sheep scrapie may persist in the environment for at least 16 years Free

Gudmundur Georgsson1, Sigurdur Sigurdarson2, Paul Brown3

http://www.microbiologyresearch.org/docserver/fulltext/jgv/87/12/3737.pdf?expires=1540908280&id=id&accname=guest&checksum=ED0572E1E5B272C100A32212A3E37

Front. Vet. Sci., 14 September 2015 | https://doi.org/10.3389/fvets.2015.00032

Objects in contact with classical scrapie sheep act as a reservoir for scrapie transmission

imageTimm Konold1*, imageStephen A. C. Hawkins2, imageLisa C. Thurston3, imageBen C. Maddison4, imageKevin C. Gough5, imageAnthony Duarte1 and imageHugh A. Simmons1

The findings of this study highlight the role of field furniture used by scrapie-infected sheep to act as a reservoir for diseas introduction although infectivity declines considerably if the field furniture has not been in contact with scrapie-infected sh for several months. PMCA may not be as sensitive as VRQ/VRQ sheep to test for environmental contamination.

snip...

Discussion

snip...

In conclusion, the results in the current study indicate that removal of furniture that had been in conta with scrapie-infected animals should be recommended, particularly since cleaning and decontaminati may not effectively remove scrapie infectivity (31), even though infectivity declines considerably if the pasture and the field furniture have not been in contact with scrapie-infected sheep for several month As sPMCA failed to detect PrPSc in furniture that was subjected to weathering, even though exposur led to infection in sheep, this method may not always be reliable in predicting the risk of scrapie infecthrough environmental contamination.

http://journal.frontiersin.org/article/10.3389/fvets.2015.00032/full

***> 172. Establishment of PrPCWD extraction and detection methods in the farm soil

Kyung Je Park, Hoo Chang Park, In Soon Roh, Hyo Jin Kim, Hae-Eun Kang and Hyun Joo Sohn

Foreign Animal Disease Division, Animal and Plant Quarantine Agency, Gimcheon, Gyeongsangbuk-do, Korea

Conclusions: Our studies showed that PrPCWD persist in 0.001% CWD contaminated soil for at least 4 year and natural CWD-affected soil. When cervid reintroduced into CWD outbreak farm, the strict decontamination procedures of the infectious agent should be perfor in the environment of CWD-affected cervid habitat.

https://www.tandfonline.com/doi/full/10.1080/19336896.2019.1615197

New studies on the heat resistance of hamster-adapted scrapie agent: Threshold survival after ashing at 600°C suggests an inorganic template of replication

http://www.pnas.org/content/97/7/3418.full

Prion Infected Meat-and-Bone Meal Is Still Infectious after Biodiesel Production

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2493038/

MONDAY, APRIL 19, 2021

Evaluation of the application for new alternative biodiesel production process for rendered fat including Category 1 animal by-products RepCat® process, AT) ???

https://transmissiblespongiformencephalopathy.blogspot.com/2021/04/evaluation-of-application-for-new.html

Detection of protease-resistant cervid prion protein in water from a CWD-endemic area

https://www.ncbi...nlm.nih.gov/pmc/articles/PMC2802782/pdf/prion0303_0171.pdf

Processing http://onlinelibrary.wiley.com/doi/10.1111/j.1539-6924.2012.01922.x/abstract Rapid assessment of bovine spongiform encephalopathy prion inactivation by heat treatment in yellow grease produced in the industrial manufacturing process of meat and bone meals https://bmcvetres.biomedcentral.com/track/pdf/10.1186/1746-6148-9-134.pdf THURSDAY, FEBRUARY 28, 2019 BSE infectivity survives burial for five years with only limited spread https://link.springer.com/content/pdf/10.1007%2Fs00705-019-04154-8.pdf 5 or 6 years quarantine is NOT LONG ENOUGH FOR CWD TSE PRION !!! QUARANTINE NEEDS TO BE 21 YEARS FOR CWD TSE PRION! FRIDAY, APRIL 30, 2021 Should Property Evaluations Contain Scrapie, CWD, TSE PRION Environmental Contamination of the land? ***> Confidential!!!! ***> As early as 1992-3 there had been long studies conducted on small pastures containing scrapie infected sheep at the sheep research station associated with the Neuropathogenesis Unit in Edinburgh, Scotland. Whether these are document don't know. But personal recounts both heard and recorded in a daily journal indicate that leaving the pastures free and replacing the topsoil completely at least 2 feet of thickness each year for SEVEN years....and then when very clean (prover scrapie free) sheep were placed on these small pastures.... the new sheep also broke out with scrapie and passed it to offsp I am not sure that TSE contaminated ground could ever be free of the agent!! A very frightening revelation!!! ---end personal email---end...tss and so it seems... Scrapie Agent (Strain 263K) Can Transmit Disease via the Oral Route after Persistence in Soil over Years Published: May 9, 2007 snip... Our results showed that 263K scrapie agent can persist in soil at least over 29 months. Strikingly, not only the contaminat

soil itself retained high levels of infectivity, as evidenced by oral administration to Syrian hamsters, but also feeding of aqueous soil extracts was able to induce disease in the reporter animals. We could also demonstrate that PrPSc in soil,

A Quantitative Assessment of the Amount of Prion Diverted to Category 1 Materials and Wastewater During

extracted after 21 months, provides a catalytically active seed in the protein misfolding cyclic amplification (PMCA) reacti PMCA opens therefore a perspective for considerably improving the detectability of prions in soil samples from the field.

snip...

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0000435

Dr. Paul Brown Scrapie Soil Test BSE Inquiry Document

https://web.archive.org/web/20090505211734/http://www.bseinquiry.gov.uk/files/sc/Seac07/tab03.pdf

Heading Off a Wildlife Epidemic

Charles E. Gilliland (Aug 18, 2021)

The Takeaway

Landowners in certain parts of the state need to be aware of chronic wasting disease, which can greatly reduce the numb deer. While there are no known cures or ways to eradicate the disease, the Texas Parks and Wildlife Department is taking measures to reduce its spread.

A multitude of risks threaten to undermine Texas landowners' efforts to manage their land. Some of those spring from pas activities but can leave invisible living legacies behind. Anthrax, for example. An outbreak of anthrax in livestock leaves a scattering of spores across the countryside that can activate and infect replacement herds.

Chronic wasting disease (CWD) in wildlife poses a similar potential problem for landowners in certain parts of Texas. CWI infects members of the Cervidae family, namely deer, elk, moose, etc. CWD does not pose dangers to livestock, and scie have not found evidence of the disease infecting humans. However, it is always fatal to stricken wildlife, threatening a destructive wave of infections among deer herds where the disease has spread. Therefore, CWD poses a direct threat to of the primary motives for owning rural land: wildlife herd management.

Profiling CWD

CWD belongs to a family of disorders known as prion diseases, or transmissible spongiform encephalopathies (TSEs). It includes Creutzfeldt-Jakob disease in humans and bovine spongiform encephalopathy, or mad cow disease, in cattle. The Centers for Disease Control and Prevention describes these maladies in detail:

The causative agents of TSEs are believed to be prions. The term "prions" refers to abnormal, pathogenic agents that are transmissible and are able to induce abnormal folding of specific normal cellular proteins called prion proteins that are fou most abundantly in the brain. The functions of these normal prion proteins are still not completely understood. The abnormal folding of the prion proteins leads to brain damage and the characteristic signs and symptoms of the disease. Prion disea are usually rapidly progressive and always fatal.

CWD symptoms include dramatic weight loss, stumbling, listlessness, decreased social interaction, loss of fear of human and excessive salivating. However, animals typically exhibit no symptoms until 18-24 months after contracting the disease addition, these symptoms could be caused by other conditions, so formal testing is needed to reliably diagnose CWD.

Obviously, an infected animal may spread the disease to other members of the herd during the nonsymptomatic phase of infection. Perhaps even worse, the body casts off prions, so an infected animal will cast off diseased prions. Therefore, ar infected herd can leave infection in the soil and remain infectious to host animals, much like anthrax.

CWD Comes to Texas

Scientists first identified CWD in mule deer in Colorado in 1967. Since that time, CWD has spread to Wyoming, Montana, Wisconsin, Pennsylvania, and other states.

CWD first appeared in Hudspeth County in 2012 in free-ranging mule deer. In 2015, the Texas Parks and Wildlife Departr (TPWD) found CWD in white-tailed deer in captive facilities in Medina County. By 2021, a total of 224 cases had been identified in 13 counties. Tests confirmed cases in two red deer, four elk, 49 mule deer, and 169 white-tailed deer.

See the TPWD site for details. Texas A&M AgriLife Extension provides a good overview of the disease in A Guide to Chrc Wasting Disease (CWD) in Texas Cervids.

Containing the Spread

Currently, there is no known cure for the disease nor any mechanism to eradicate it. Therefore, TPWD management of C' seeks to contain the spread to areas of confirmed infections.

The plan has established five CWD zones with confirmed infections: Kimble County Zone, Trans-Pecos Zone, South Cen Zone, Panhandle Zone, and Val Verde County Zone. The latest edition of the TPWD Outdoor Annual provides maps of eazone indicating official stations performing testing for CWD. All hunters harvesting animals in these zones must take them one of these stations to have them tested for CWD within 48 hours of the harvest. In addition, hunters can transport carca out of the zones only after all brain and spinal cord tissue have been removed. TPWD will provide a receipt for the sample

Because the spread of CWD is evolving, regulations can change quickly. Therefore, anyone involved in hunting activity st consult the most recent Outdoor Annual for the latest regulations. To reduce the chances of spreading the disease, TPWI regulations also restrict the movement of live deer from CWD zones.

Impact on Rural Landowners

CWD poses a significant threat to the future of hunting in Texas. Deer population declines of 45 and 50 percent have bee documented in Colorado and Wyoming. A broad infection of Texas deer populations resulting in similar population impact would inflict severe economic damage to rural communities and could negatively impact land markets. Specifically, those landowners seeking to establish a thriving herd of deer could avoid buying in areas with confirmed CWD infections.

As they do with anthrax-susceptible properties, land brokers may find it advisable to inquire about the status of CWD infections on properties that they present for sale. Prospective buyers should also investigate the status of the wildlife on prospective properties. In addition, existing landowners should monitor developments as TPWD crafts management strate to identify and contain this deadly disease.

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https://www.recenter.tamu.edu/articles/tierra-grande/oh-deer-2314

https://landassociation.org/chronic-wasting-disease-in-texas-latest-updates/

THURSDAY, SEPTEMBER 01, 2022

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https://chronic-wasting-disease.blogspot.com/2022/09 2022.html)/texas-cwd-count-as-of-late-august-
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