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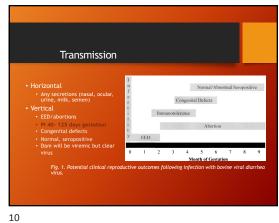
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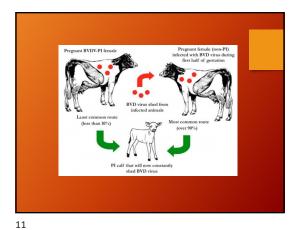


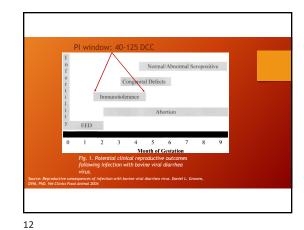


The veterinarian is called because cows are off feed, depressed, and scouring. At this stage of the disease the temperature is normal or slightly raised. Other animals, still apparently normal, may have temperatures of 105 to 108°F. After animals have scoured a day or two, the severely affected develop ulcers in the mouth, nose, and on the muzzle. In the initial outbreak one of us (Fox) found several animals with a leukopenia. Salivation may occur early in the disease and again after ulcers appear in the mouth. Stringy mucus may hang from the muzzle to the ground. Mucous or mucopurulent nasal discharge may be present. Some animals cough throughout the course of the disease. The severely affected are depressed, ears hang down, and they may have difficulty in finding their places in the barn. There may be marked disturbance in the distribution of body heat. Ears, horns, muzzle, and extremities are cold. Parts of the body may feel lee cold while other parts are warm. The nasal and oral mucous membranes vary from a pink to a bright red color. The conjunctiva may show marked injection. Eye lesions are not present.





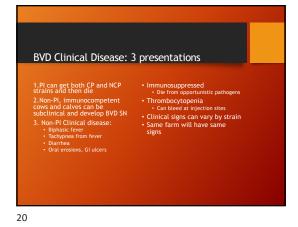












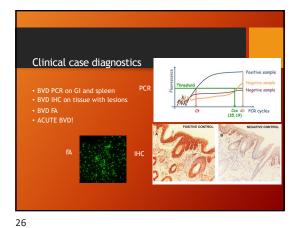












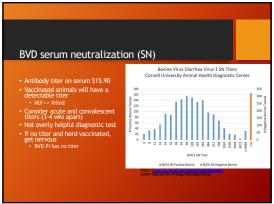
BVD Antigen Capture ELISA	
	'D Antigen Capture ELISA CE"
Sample types: • Ear notch - any age • Serum - >61 days	mple types: Ear notch - any age
This is what you need for fair lapers September 19 19 19 19 19 19 19 19 19 19 19 19 19	nis is what you need for fair pers © \$6.00 at AHDC AHDC does not pool ear notches







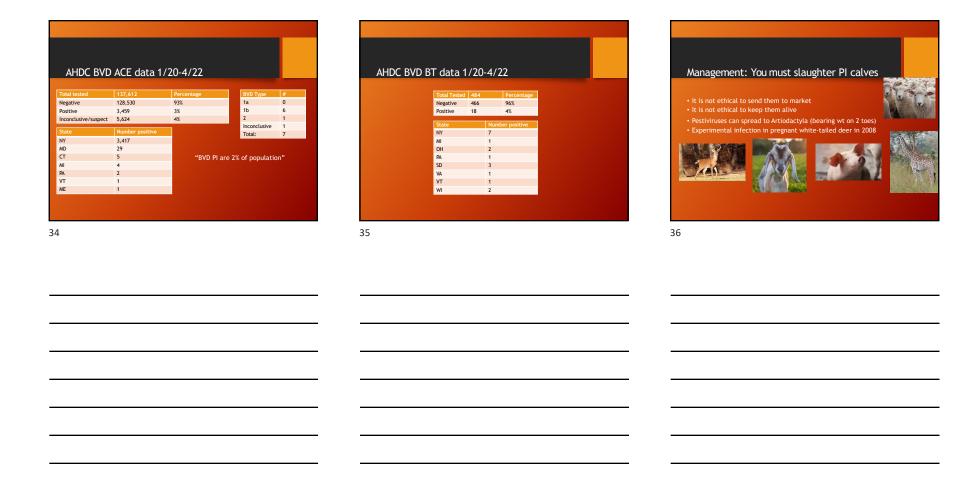


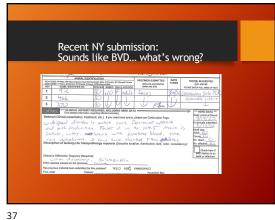


Diagnostics: Find PI animals vs acutely infected animals BVD ACE Ear notch any age \$6.00 Pl v nonPl Serum >61 days Acute or PI Pool up to 10 animals = \$4.10/animal BVD PCR EDTA whole blood Serum Will detect recent MLV Tissues from necropsy (GI spleen) BVD SN Serum \$15.90 reflects vaccine or exposure BVD Bulk Tank 400 cows Combination of PCR and virus

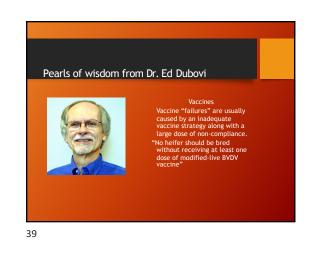
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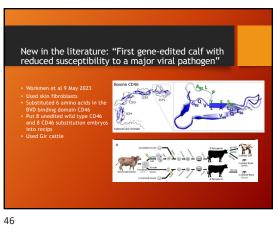


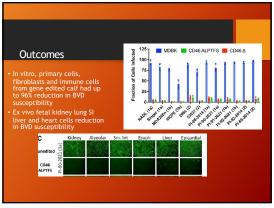






Pearls of wisdom from Dr. Ed Dubovi - HERD SCREENING STRATEGY - BULK TANK ON LACTATING ANIMALS - POOLED SERUM for PCR ON NON-LACTATING COWS - EAR NOTCH ON any age animal for BVD ACE	Pearls of Wisdom from Ed Dubovi >ON-GOING HERD SCREENING STRATEGY FOR DAIRY HERDS >Ear Notch All Calves as they are born >Single test defines the status of two animals - calf and dam >Negative calf can only come from negative dam	Discussion • Ear notch BVD ACE all calves under 60 days of age: • So x 23 = 150 • Or Exclusive space of 10 = 1 x 541 = 5123 • Bulk Tank milk BVD PCR and VI on all lactating cattle • Sold Style PCR and VI on all lactating cattle • Sold Style PCR and VI on all lactating cattle • Sold Style PCR and VI on all lactating cattle • 30 dry cows, groups of 10 pooled = 3 x 541 = 5123 • Pooled BVD PCR on serum from youngetock > 60 days • Sol heriters, groups of 10 pooled - 5 x 541 - 5205 • TOTAL initial testing: \$546
43	44	45

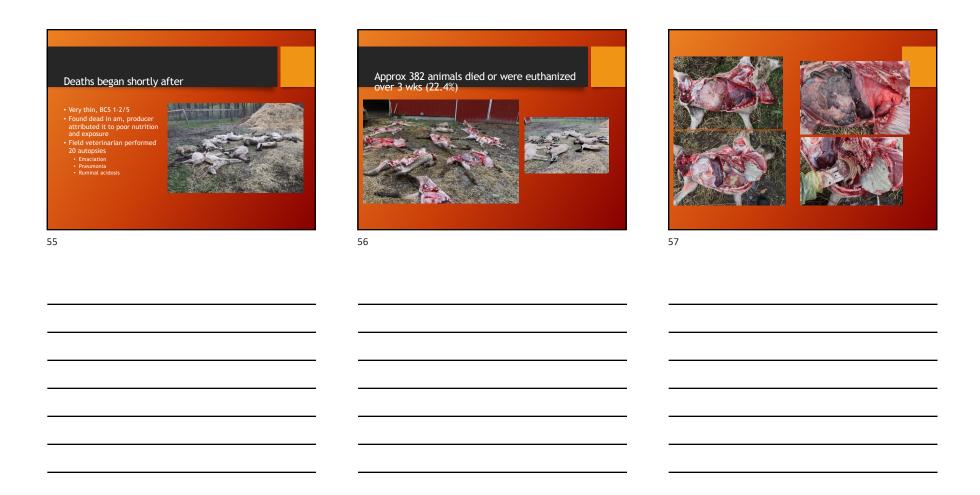


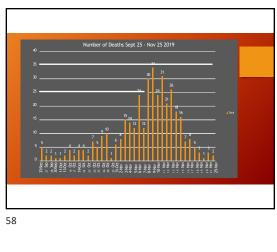


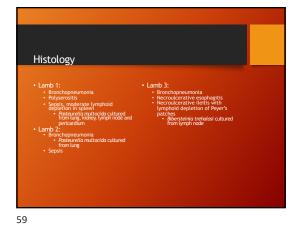
Outcomes	
 Wild type calf was BVD Pt 	
cells infected 12 days • Edited calf BVD PCR pos 3	CR pos for 28 days, cough, rhinitis, mononuclear 3 days, mononuclear cells neg I viremia during gestation = no Pl
cells infected 12 days • Edited calf BVD PCR pos 3	3 days, mononuclear cells neg





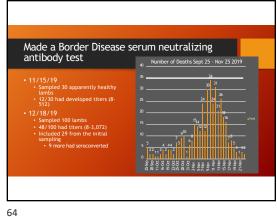


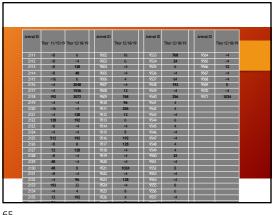












Border Disease Review	v
Typically causes reproductive issues Ferrilliny Abortions' stillborn Premature/ weak lambs Hairy Shakers (persistently infected lambs) Hair - like fleece Rhythmic tremors	Particular ST and Postage by A. Desent of Sovery A Facility (Fig. 66, First galabeet) Navi Articles (Fig. 66, First galabeet) Navi 200 Copyrigh C 200 by Bucked Additions (Fig. 1911) 23

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Border disease infection and gestation (Nettleton, P.F. and Willoughby K. Diseases of Sheep 4th Edition)	Other high mortality BDV outbreaks	Previous BDV Report
Less than 60-85 days gestation: Fetal death or mummy OR harry shaker No NAtiter More than 60-85 days Fetal death or weak lambs or normal lambs Detectable NAtiter Btw 60-85 days =??	1984: French outbreak w 50% mortality, entertits and leukopenia in 3-5 mo old lambs (Chappuis et al). 1,500 ewes and 24,000 lambs died (?) VI from 3 8-week-old lambs "AV strain" Experimentally infected lambs, 15/31 died with leukopenia	1983: Netherlands report of CSFV contaminated by infected lamb kidney cells (Wensvoort et al.) 2
67	68	69





Formation do Luci D. Bibs., Waley R. Golge J. Willough K. Wilsoh S., Nettleton PF. A const province associated with deaths in Pyrenean channels a pyrenekin y greating. J Gen Wal. 2004 Doc BSP 1(2):503-1435 doi: 10.1095/ver.0.002175.
Norkman and others. First gene-edited calf with reduced susceptibility to a major viral pathogen, PNAS Nexus, Volume 2, Issue 5, May 2023, pgad125,
tal diumbes virus: An updated American College of Vyter jury Integral Medicine conservus stategagest with focus on virus biology, hosts, apprension, and vaccination. 3 We listen Med. 2020 Sep; 14(1): 1605-1705, doi: 10.1111/jvins.15816.
G. Brun A, F. Kato. Études aérologiques et immunologiques réalitales à la suite de l'isolement d'un petitivitus dans un foyer ovin chez des moutons de Petitivitates des ceins et des bovists Nouvelles concastances utilitation pour une strategie de controle. 1985;55-64.
Personance and own or an above: requested committees unrealized participal on corress, 1985/25-66. Fig. C. Maugnell Fr. (Septiment) and purely-haplotype associated with recumbercy in Holstein calves. JOS Commun. 2022 Aug 6;2(6):412-415.
and Securic N. (2021). Epidemiology of Bovine Penthinuses Circulating in Italy. Front. Vet. Sci. 8:66942. 867/vets 2021 669942
89/ Fvets 2021 669942 Diseases of Dairy Castle 3rd Edition, Divers and Peek
Engrangista Alban Fudusbert. Huddenmarti Albaninarti Armand. Esperianyon (restel relición demon Albanina birokaladorniar nertparativa
t C. Terpstra C. Sovine viral diamboes virus infections in pigiots born to sows vaccinated against owine fever with contaminated vaccine. Res Vet Sci. 46(2):143-8. PMID: 2848299