		ne Leukosis kemia Virus)
 Antibody presence 	e is considered e	vidence of infection
 Infection is usually 	y inapparent and	l persistent
Fata Tumors in:		tumor of cattle
 Lymph nodes 	•Spleen	•Uterus
•Spinal chord	 Intestines 	
•Heart	•Abomasum	
•Kidney	•Tissue behind	I the eye







Economic losses due to:

- Death of cattle
- Carcass condemnation
- Premature culling and replacement



Control of BLV? Understand that transmission is possible through blood contamination via: • Insects • Blood transfusions • Common needles or surgical instruments • Contaminated palpation sleeves

Control of BLV?

Understand that transmission is possible through blood contamination

Understand that transmission from dam to offspring can happen























Importance of BVDV

- Depression
- Anorexia
- Diarrhea
- Ulcers of the nose, mouth, and muzzle
- Hemorrhagic
 disease





Total annual losses per calving: >\$20 with low-virulence strains

>\$57 with high-virulence









Surveillance

≻High Risk

- Ear notch on all calves
- Test all cows without calves • (VI on serum)
- Test bulls and heifers • (VI on serum)

Surveillance

- Low risk (choose your plan)
- **#1. Monitor production & health**
- **#2. Serology of herd sub-set**
- **#3. PCR on pooled serum** (entire calf crop)
- #4. Ear notch test (entire calf crop)









Manufactu	er Vaccine	Modified Live	Cost		pe 1 B				Additional	Approved for					Meat
		(MLV) ar Killerá						e Strain	Claims	Pregnant Cows		Initial	ум	80	Withdrav
oehringer Ingelheim		Killed	\$1.19			Singer	ср	296	_	?	5 mL	?	2		21 da
griLabs	Master Guar	Killed	\$1.4		ср	C24V	ср	1250		?	5 mL	?	?	?	21 da
terial	Respishield	Killed		1a		Singer	_			?	5 mL	?	?	2	21 da
ort Dodge	Triangle 4+type	lKilled	\$1.25		ср	Singer	ср	5912		?	2 mL	?	?	?	21 da
fizer	CattleMaster 4	Killed	\$1.92	1a	ср	5960				2	2 ml	2	2		21 da
TILCI	Guttienaster	Runee	\$1.5	1	ncp	6309	_			•		•			
fizer CattleMaster Gold FP	^{\$} Killed	\$2.03	1a	CD	5960	ср	??	? F.P. I & I	2	2 ml	2		2	21 da	
		\$2.07	1	ncp	6309	ср			· ·	2 111				2108	
vartis ViraShield 6	Killed	A1 34	1a	ср	KY22		TN 131		2	5 mL	they contain	tarópio	OV6	60 da	
ovalus	Virasilielu 6	ктеа	\$1.30		ncp		ncp	IN 13			SIL	?		?	60 ua
orbringer Ingelheim	Express	MLV	\$0.9	1a	cp	Singer	cp	296		2 *	2 mL	?	?		21 da
fizer	Bovi-Shiel@bld	MIV	\$1.16	1a	cn	NADI	cn	Pf2	EP 1&	Provisional	2 ml	For BRSV	?		21 da
fizer	PreoGuar&old FP 1	MIV	\$1.34	12	cn	NADI	cn	Pf2	FP I&	Provisional	2 ml		?		21 da
ort Dodge	Pyramid 5 w/ Met		\$1.00	1a	CD	Singer	CD		F.P. &	Provisional	2 mL	?	?	?	21 da
terial	Reliant 4	MLV		1a	CD	NADL				?	2 ml	Recommended	?		21 da
oriLabs	Titanium	MIV	\$1.02	1a	cn	C24V	CD	296		?		For BRSV	?	?	21 da
chering-Ploue		MIV	\$1.08	1b		WRL			Fetal protecti	. ?	2 ml		?	?	21 da
lovartis	Arsenal 4.1	MIV	\$0.9		ncp					2	2 ml			?	21 da
tervet	Vista	MIV	\$0.99	1a	cn	Singer	CD	1254	F.P. &	2	2 ml	thay costain he	120-201	12	21 da
	Breed-BackP		\$1.46			Singer			FP I&	2	5 mL		?		21 da







BVDV vaccination protocol

Heifers at 4 to 6 months administer MLV revaccinate with MLV 30 days later

Revaccinate heifers and cows prior to breeding

Vaccination will not provide complete protection in any situation.





How to do biosecurity

1. Identify and remove persistently infected animals from your herd.





2. Don't introduce cattle into your herd that lack previous testing for BVDV, especially during the breeding season or the first 5 months of gestation.





Prevent your cattle from contacting cattle outside your herd (e.g. shows, exhibitions, fence-line contact), <u>especially during the</u> <u>breeding season or the first 5 months of</u> <u>gestation</u>.

3.

- gestation.
 a. If contact occurs with your non-pregnant animals, quarantine for 21 days before reintroduction to your herd.
 b. If contact occurs with your pregnant animals (prior to 5 months of gestation), isolate until the calf is born and test the calf for BVDV before reintroduction

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How to do biosecurity

4. Don't allow people wearing boots and coveralls contaminated by other herds to contact your cattle.



How to do biosecurity

 Don't allow dirty or contaminated instruments from other herds to contact your cattle (e.g. nose tongs, vaccine vials, balling guns, dehorners, castrating knives, tagging pliers)







Implement appropriate fly control.
 Limit contact with wildlife (especially deer).



Don't forget biosecurity for semen & embryos

- Semen CSS certified
- Embryos from BVD free donor or washed according to International Embryo Transfer Society (IETS) Protocol



Signs of Anaplasmosis

- Usually no clinical signs in calves!
- Acute aggression
- Weakness and ataxia
- Fever
- Off feed
- Constipation with dark brown feces
- Abortion

Control of Anaplasmosis

Understand that transmission is possible through blood contamination via:

- Insects- ticks and horse flies
 Blood transfusions
 <u>Common needles</u> or surgica les or surgical instruments

 Contaminated palpation sleeves

Control of Anaplasmosis



Control of Anaplasmosis

Understand that transmission is possible through blood contamination

Understand that some cattle can be persistent, asymptomatic carriers but infect insects

To obtain complete clearance, treat with long acting tetracycline every 3 days for 4 successive treatments & confirm clearance