



<section-header> OUTLINE Introduction Common health issues BRD and diarrhea Metagenomic studies On going research at TTU













- Pros:
 - · Easy to clean
 - · Easy to adopt ad libitum feeding systems
 - · Socialization and public perception
- Cons:
 - Transmission of pathogens
 - Difficult to monitor intake
 - Difficult to detect sick
 animals













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ETAPHYLAXIS	– BRD			
CTR = untreat	ted			
M1 = one tildi	pirosin	injection administered	d at 10 d	lays of
M2 = two tilds	ipirosin	injections at 10 days	and 35 d	lays of
		Hazard ratio (95% confidence limit)	P value	
Mortality	CTR	Reference		
	M1	0.51 (0.30–1.13)	0.11	
	M2	0.62 (0.28–1.29)	0.21	
BRD	CTR	Reference		
	M1	0.68 (0.47–0.97)	0.07	
	M2	0.70 (0.49–1.01)	0.09	
Otitis	CTR	Reference		
	M1	0.85 (0.67–1.23)	0.34	
	M2	0.80 (0.62–1.15)	0.30	
BRD and/or otitis	CTR	Reference		
	M1	0.70 (0.58–0.95)	0.009	
	M2	0.72 (0.60–0.98)	0.01	Teixeira et. a







D	visease treatme	ent events were lower t	han the national avera	age
	Item	Enrolled (%)	Treated (%)	Dead (%)
	Calves	1,360	155 (11.3)	16 (1.2)
	CON	458	60 (13.1)	6 (1.3)
	BTIS	449	44 (9.8)	5 (1.1)
	ATIS	453	51 (11.4)	5 (1.1)
)	N: control;	BTIS: before tra	ansport; ATIS:	after transpo
			Court	esy of Luciano



	Pneumonia			Scours		
Group	HR	95% CI	<i>P</i> - value	HR	95% CI	<i>P-</i> value
CON	Ref.	-	-	Ref.	-	-
BTIS	0.54	0.31 – 0.94	0.02	1.04	0.58 – 1.88	0.87
ATIS	0.88	0.55 – 1.42	0.60	0.75	0.40 - 1.42	0.38
ON: control; ⊓S: before trans ⊓S: after transpo	port; prt					

















