

Obj	ective
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To review available data and use a systematic review process to obtain an accurate prediction of embryonic failure during multiple periods of pregnancy development in beef cattle





Selection criteria

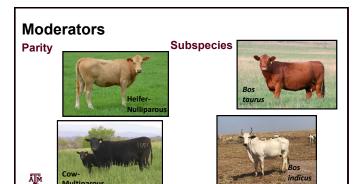
Inclusion

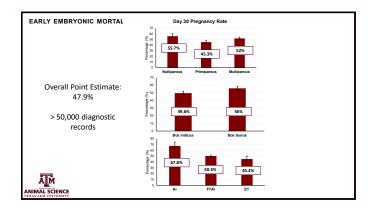
- Cows or heifers of predominantly beef breeds
- Published after 1978
- Day of gestation of pregnancy diagnosis, subspecies, location, parity, and/or breeding method was listed

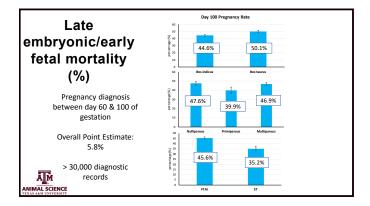


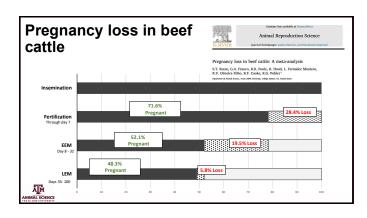
Exclusion

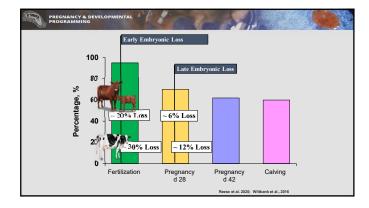
- Induced twinning
- Study treatments that were detrimental to pregnancy success
- First pregnancy diagnosis was after day 32 of gestation
- Animals of Holstein or other dairy breed origin

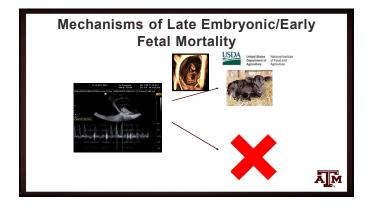






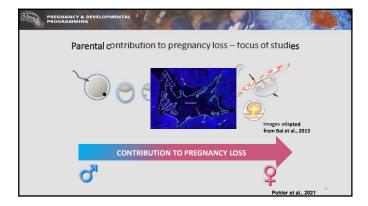




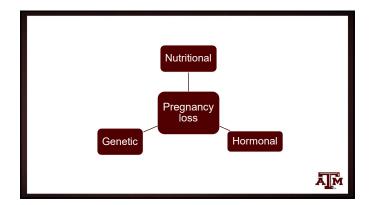


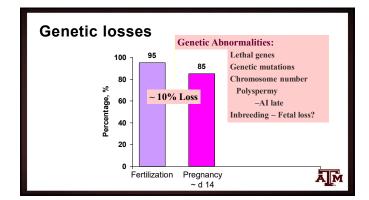


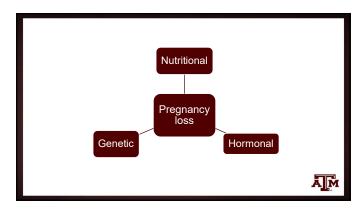


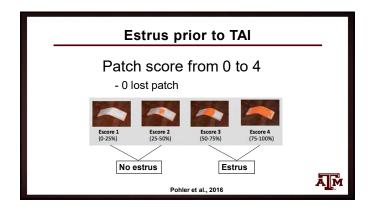


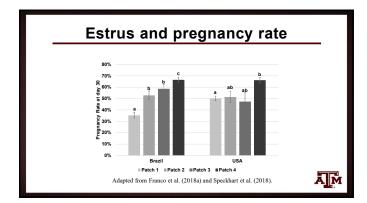


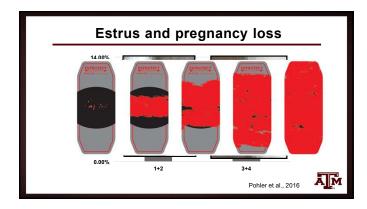


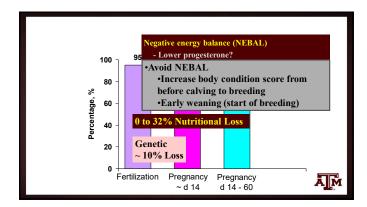












Effect of weight loss on early embryonic development in beef heifers

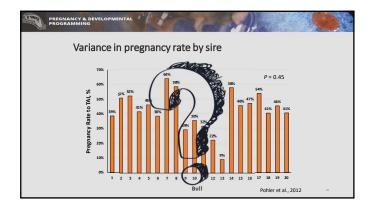
- Heifers were fed to gain weight (1.5 lb/hd/day) or lose weight (80% of NRC requirements).
- At embryo collection (day 7 after AI) heifers that lost weight had embryos that were less developed and of lower quality.

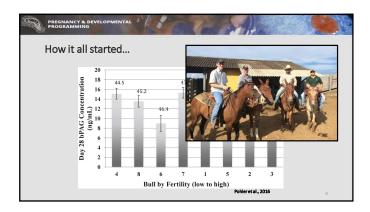












PREGNANCY 8	& DEVE	LOPMENTAL	7 1		1)	
ire con		ution to	pregnancy	loss	194	
s	Sire	EEM (%)	EEM Classification	LEM (%)	LEM Classification	
_	1	3.7 ± 5.2	Low EEM	5.1 ± 4.0	Low LEM	
	2	20.0 ± 6.0	High EEM ◀	3.4 ± 4.6	Low LEM	
	3	11.1 ± 4.0	High EEM ◀	9.9 ± 3.5	High LEM◆	
	4	11.7 ± 4.6	High EEM ◀	2.5 ± 3.9	Low LEM	
	5	10.5 ± 6.2	High EEM ◀	3.3 ± 4.5	Low LEM	
	6	5.7 ± 4.6	Low EEM	12.6 ± 3.6	High LEM♦	
	7	2.8 ± 4.6	Low EEM	2.3 ± 3.7	Low LEM	
	8	3.0 ± 3.0	Low EEM	11.0 ± 3.4	High LEM♦	
				Franco et al, 2020		

