





What Determines Days on Feed?

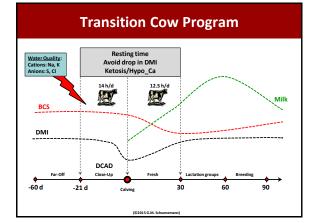
Age at Calving; which is determined by:

(©2015 G.M. Sch

- Nutrition management
- Growth (ADG) & development
- Conception

- ...





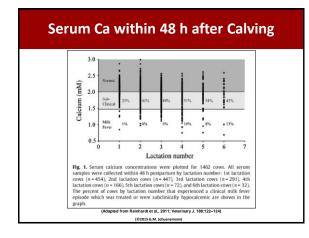
Basic Physiological Functions to Avoid Transition Cow Diseases

- Resting time (h/d)
- Dry matter intake and adaptation of the rumen to lactation diets (<u>ketosis</u>)
- Maintenance of <u>normocalcemia</u>
- Maintenance of a strong <u>immune system</u>

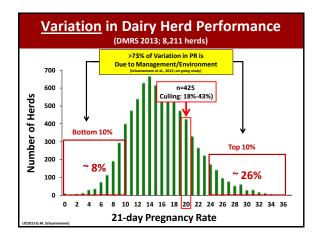
Determine the Prevalence of both metabolic and infectious diseases

nann)

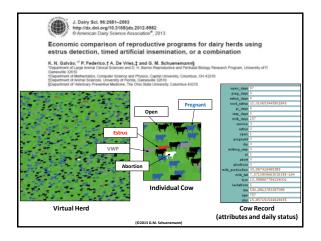
(©2015 G.M. Schue









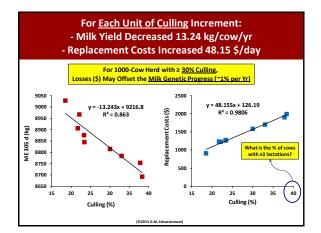




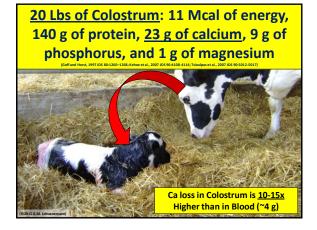
Economics of Transition Cow Management

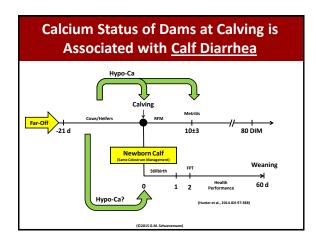
1000-cow herd Items	Culling within 60 DIM	
	6%	12%
Pregnant, %	603.00	610.00
Lactating, %	855.00	856.00
Milk, kg/d	29.30	29.00
Milk sales, \$	12905.00	12771.00
Cows sales, \$	470.00	607.00
Calf sales, \$	606.00	635.00
Replace costs, \$	1214.00	1490.00
Breeding costs, \$	319.00	315.00
Feeding costs, \$	4983.00	4963.00
Other costs, \$	2500.00	2500.00
Profit, \$/d	4935.00	4715.00
Profit, \$/yr	\$80,300.00	

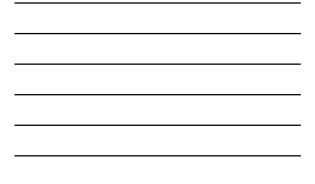


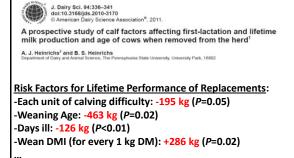












(@2015 G.M. Schue

Lactating Cows: Final Remarks

- Milk yield increases as lactating cows age (2nd and 3rd lactations); BUT older cows are at greater risk for transition diseases
- Culling offers an opportunity to replace unproductive animals, BUT ≥ 30% culling may offset the milk genetic progress

(@2015 G.M. Schue

Replacement Heifers: Final Remarks

- Events (dystocia, diarrhea, days treated, and ADG) within the first 2-months of life (weaning) reduce first-lactation and lifetime milk production
- Genomic selection offers an opportunity to select superior replacements, BUT "management" early in life determines the lifetime performance regardless of genetic merit

(©2015 G.M. Sc

Health is KEY for Milk and Reproduction

- Can I select for those "traits" that best address the <u>challenges of transition cows</u> without compromising MILK?
- If I can select for those "traits", what do I need to do from a <u>management</u> standpoint to capture the economic benefits of those "traits"?

(©2015 G.M. Schuer

...



