

#### Shortening of the dry period did not prevent hypocalcemia at calving

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#### Why important?

• Clinical (milk fever) – 5-10 % of cows (Oetzel, 2011)

• Subclinical – 50 % of cows (Reinhardt et al., 2011)

#### Why interesting?

- Affected by diet (Katsoulos et al., 2005)
- Affected by oral prophylactics (Goff et al., 1996)
- Affected by milking/milk production?
  - -Yes (Goff et al., 2002; Littledike, 1976)
  - NO (Smith et al., 1948; Salgado-Hernández et al., 2014)

#### Shortened dry period

- ▼ Milk yield at dry off (Pezeshki et al., 2010)
- ▲ Energy balance after calving (Watters et al., 2008)
- ▼ Total milk production (Watters et al., 2008)
- Colostrum production (50 % loss) during the first 3 milkings (Sundman, 2013, unpublished data)

# **HYPOTHESIS:**

Shortened dry period decreases colostrum production, and results in higher plasma calcium after calving

# **MATERIAL AND METHODS**

- 34 cows (SRB, Holstein)
- Dry period 8 or 4 weeks
- Plasma sample after calving (24 h)
- Milk yield measurements milking 1-3









# CONCLUSION

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Thank you for listening!