

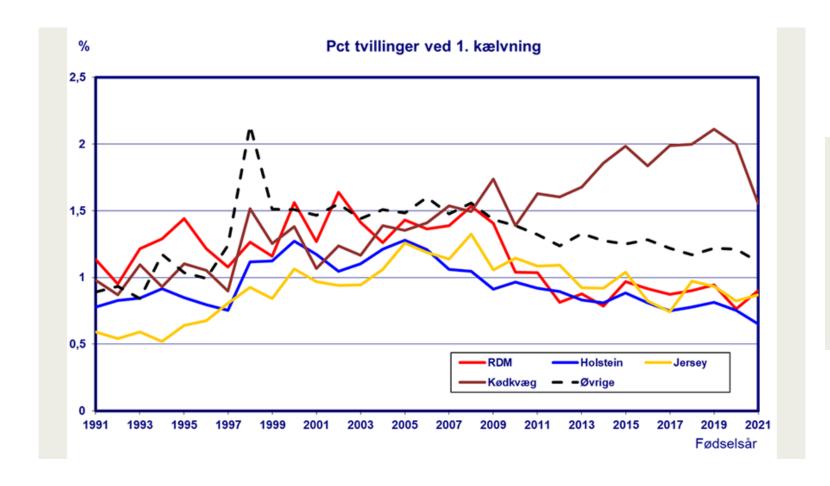
Brush up on knowledge and "black holes"

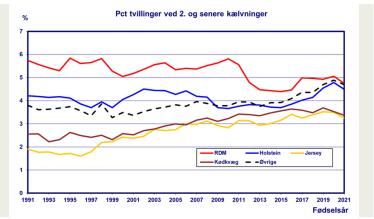
- Status in Denmark
- How come the cows have twins
- Desirable or undesirable?
- Management
- "Black holes"





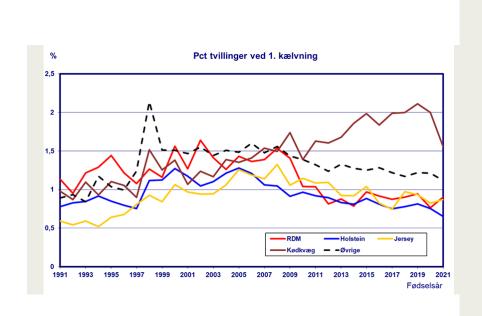
Status in Denmark

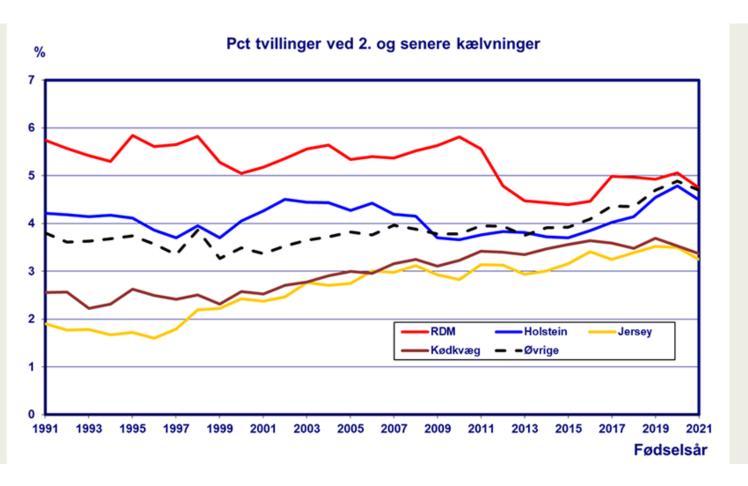






Status in Denmark

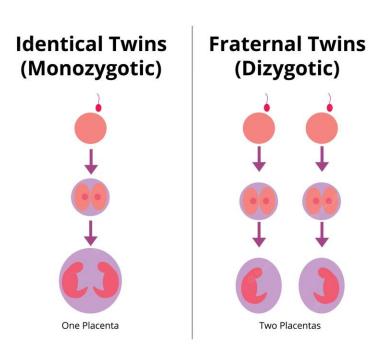






Why it happens?

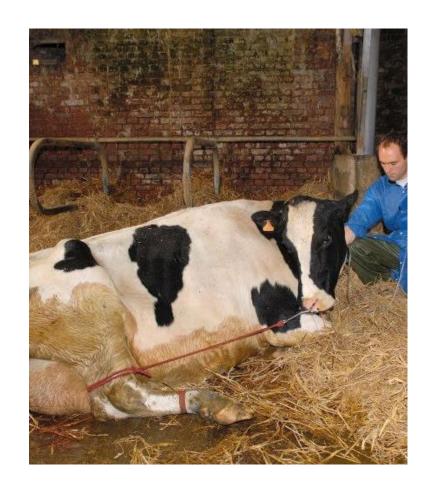
- 95% of twin pregnancies is caused by double ovulation
 - Hormone disturbances
 - High production
 - High feed intake
 - Heritability
 - Breed
 - Parity
 - Season
 - Colder periods causes more double ovulations (light?)





Why are twin undesirable?

- Higher risk for both cow and calves
 - Periparturient reproductive and metabolic disorders
 - Abortion, still birth, neonatal calf mortality, and reduced birth weight
 - Freemartins
- ECONOMICS!
 - \$59 \$161 (study from 2021)





Diagnosis – its twins!

- Discover it early
- Embryo reduction
- Pregnancy termination
- Culling of the cow

Keep the twins and manage





Pregnant with twins

- Reduced gestation length (-5 days)
- Lose weight/stay the same in the last trimester (Energy demands are 50% - 70% higher)
- Lower DMI prepartum
- Lower BCS prepartum

Earlier dry-off

Higher plane of nutrition

Assistance at calving



Feeding – more energy in late pregnancy?

- Bell et al.,2006
 - High vs low concentrate
 - Low concentr

Investigations in the future

- Cabrera et al
 - Close-up (mo
 Feeding in late pregnancy
 - No effect of lc...
 - No difference between cows with twins and singletons
- Silva-del-Río et al., 2010
 - Close-up for 8W vs far-off (60-21 d before ECD) and Closeup for 3W. Both twins and singles
 - Energy balance was greater for cows on 8W compared to 3///

