

A photograph of a pig in a metal restraint, likely in a farm or laboratory setting. The pig is light-colored and has a yellow tag on its ear. The restraint is made of metal bars and is positioned over the pig's head. The background shows other pigs and the structure of the facility.

Are you ready for the Yellow Card on sow mortality? Lessons learned from data from 250,000 sows

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SEGES Innovation

You will hear about

New knowledge on:

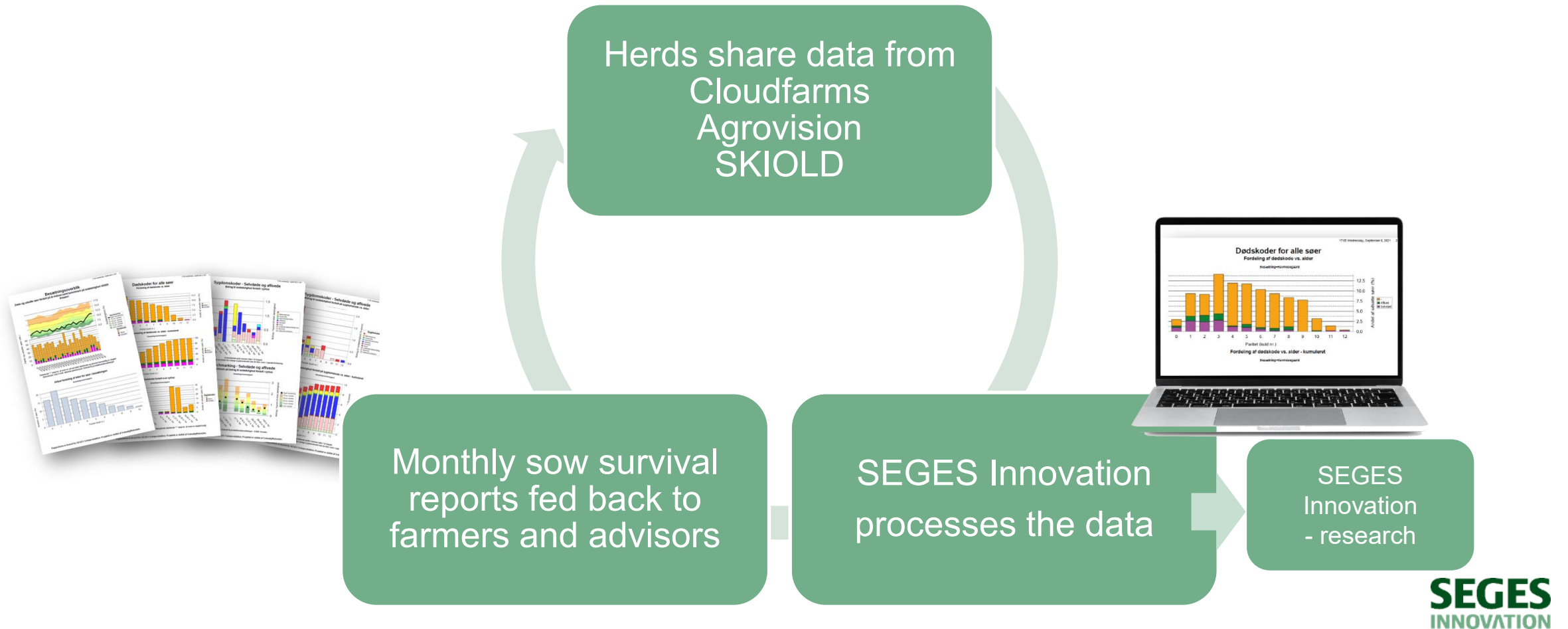
Culled and suddenly dead sows

- Risk periods
- Risk factors
- What to focus on?



What is SEGES InSight?

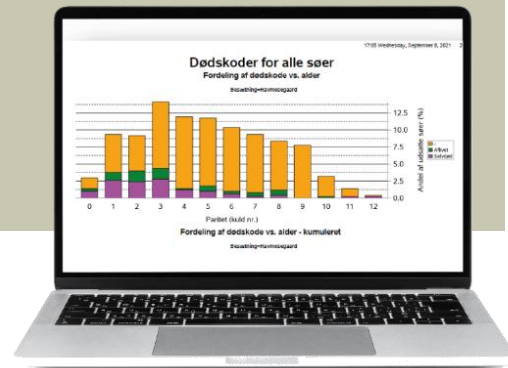
- More than 250 sow herds are registered with SEGES Insight (>280,000 sows)
- Free to participate



Data basis of this presentation

SEGES InSight

- 225 commercial herds
- > 1.5 million cycles
- 480,000 sows
- Sows born after 01-01-21; inseminated min. 1 time
- Followed until death or 31-12-24
- Multivariate models

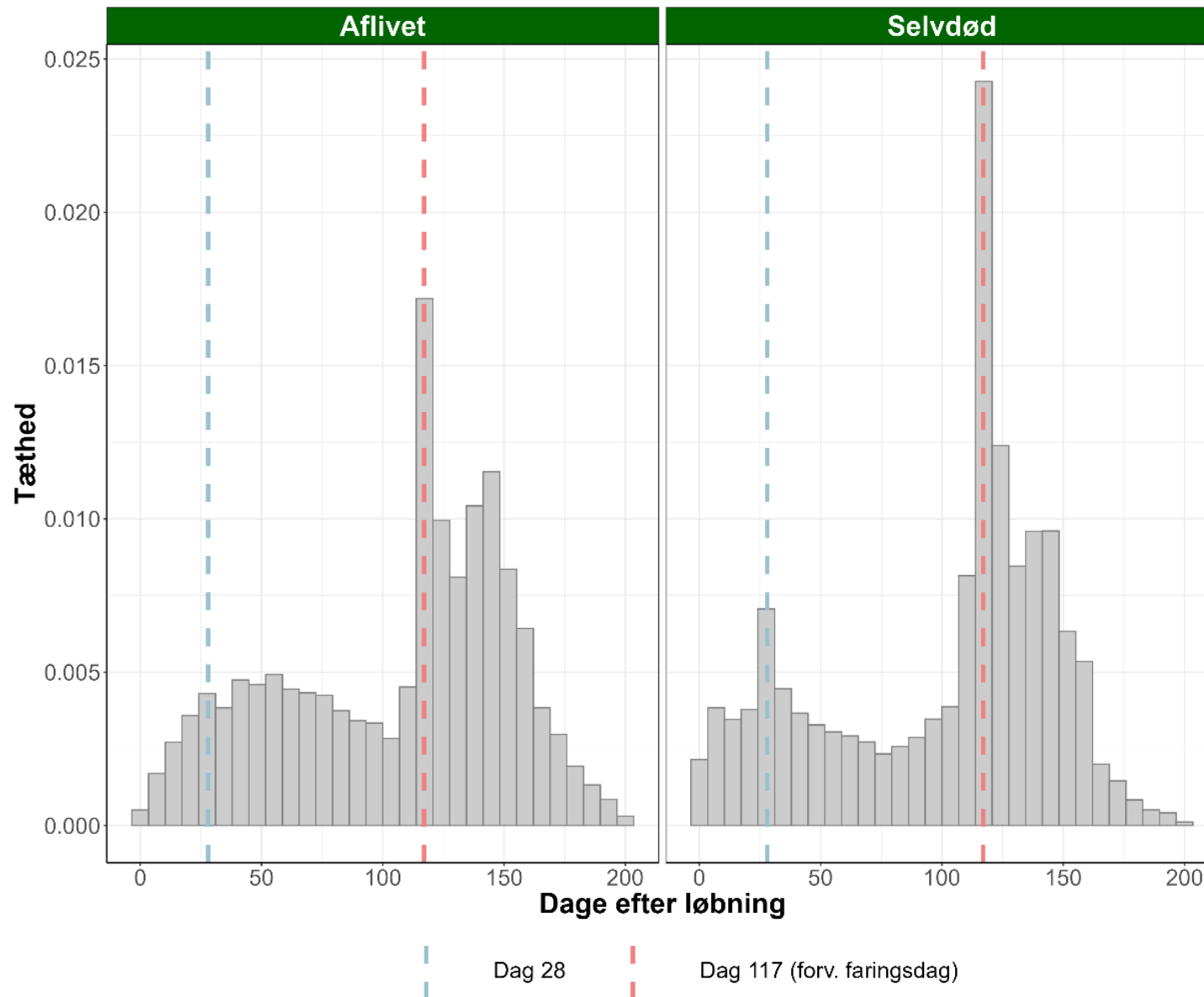


Autopsies

- 101 suddenly dead sows
- 6 herds
- Years 2023 to 2025

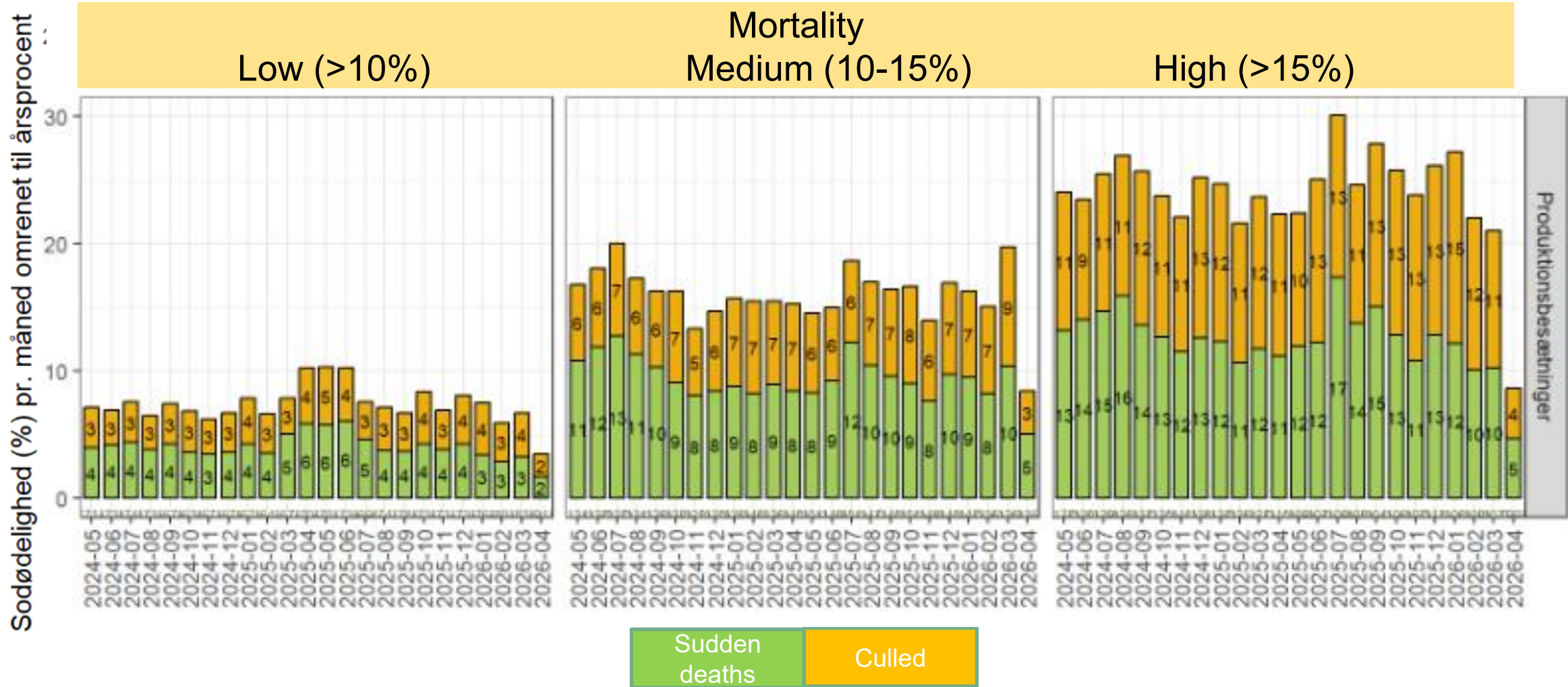


Risk periods for sow deaths



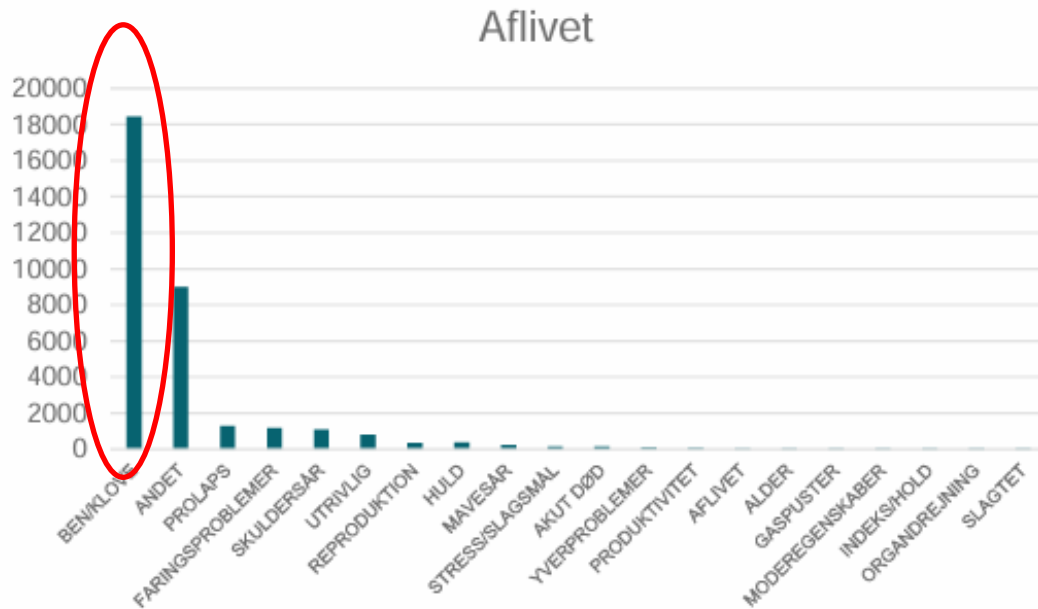
- Culled or sudden deaths: Risk clearly peaks around farrowing
- Sudden deaths: Also at transfer to the gestation unit

Prevention should primarily be targeted at:
The periods around grouping and in particular farrowing



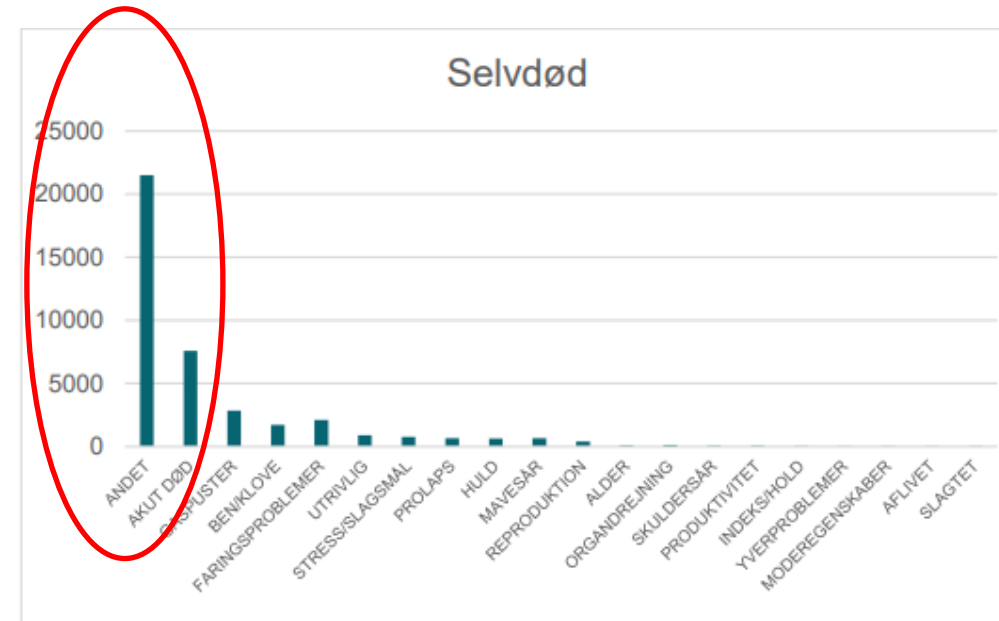
- An almost equal split between culled and sudden deaths
- Regardless of herd sow mortality

Farmers' own recordings of causes of death



Culled

- 55% due to claw/leg problems

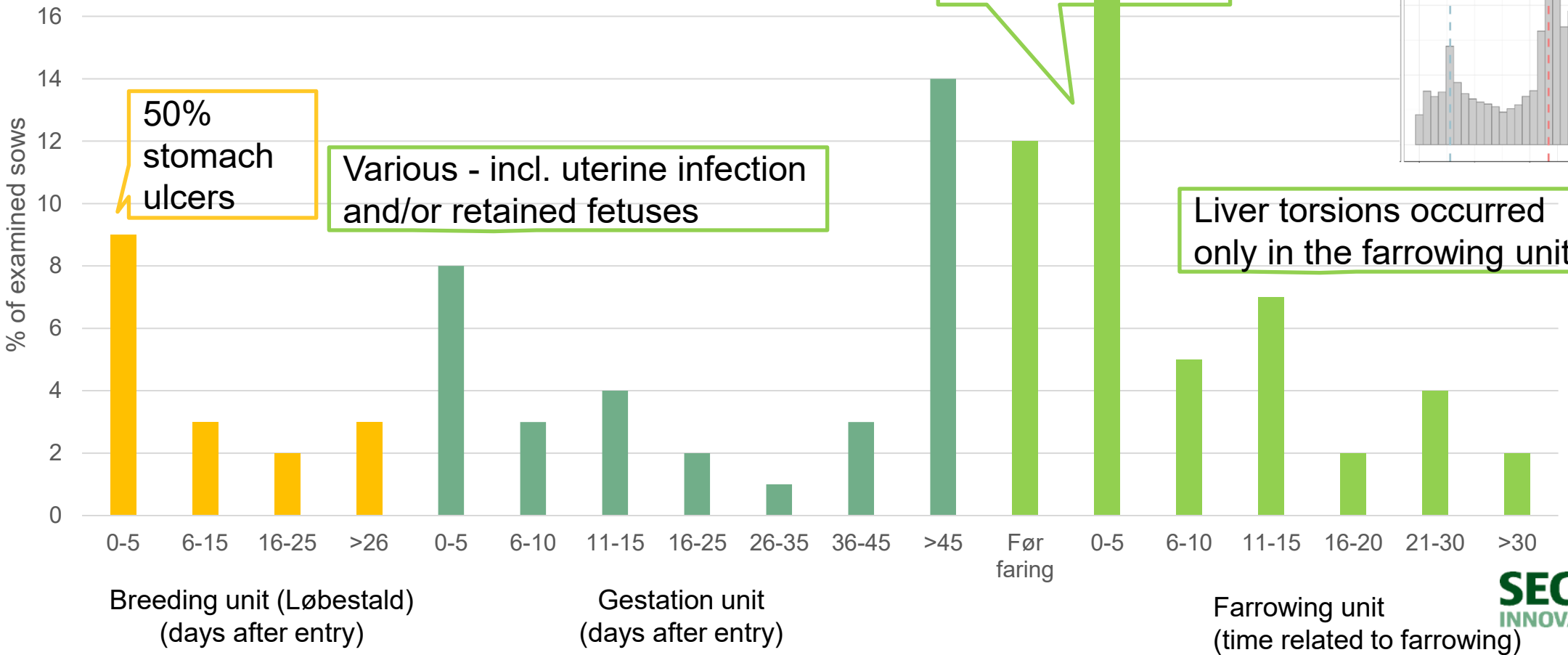


Sudden deaths

- Approximately 70% exit code Other (Andet) or Sudden death (Akut død)
- It is difficult to know why sows die suddenly

Died primarily at transfer to a new housing unit

24% died of organ torsions
 15% died of farrowing-related complications
 16% died of stomach ulcers/intestinal bleedings

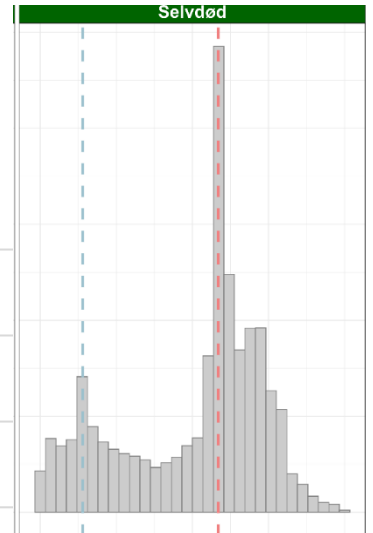


50% stomach ulcers

Various - incl. uterine infection and/or retained fetuses

Primarily farrowing complications

Liver torsions occurred only in the farrowing unit



Excessive body condition - a possible risk factor for organ torsions?

Body condition assessed by

- Backfat thickness measured at the laboratory (P2)
- Farmers' body condition scoring (thin, normal, fat)

Backfat measurements showed

- Organ torsions – 88% were fat
- Liver torsions – 92% were fat

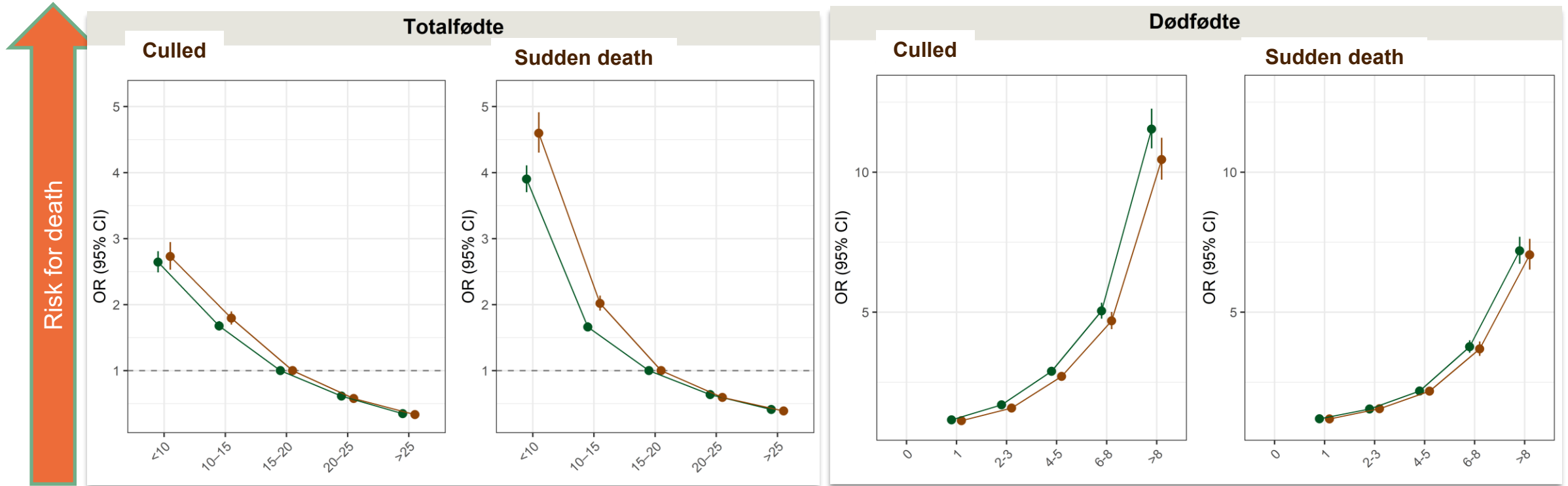
Farmers:

Many fat sows assessed as having normal body condition

**Can improved assessment / management
of body condition save lives?**



Few totalborn and many stillborn – increased risk



Sows and gilts dead in farrowing unit

Few totalborn and many stillborn =
Increased risk for both sudden deaths
and culling

Reasons?
Farrowing complications
eg labour weakness, uterine
inflammation, decomposed
fetuses



Period around farrowing particularly critical

Focus on

- Preparation of the sow before farrowing, eg
 - Body condition management
 - Adjust feeding according to recommended standards
 - Minimise stress
- Farrowing supervision
 - Preferably check on farrowing sows every 30 minutes
 - Night-time supervision can reduce piglet mortality by >40%
- Timely and proper assistance ... and remember
 - Hygiene
 - Care and caution

H6 – Fødselshjælp



Korrekt ydet fødselshjælp

Farestaldsmanagement



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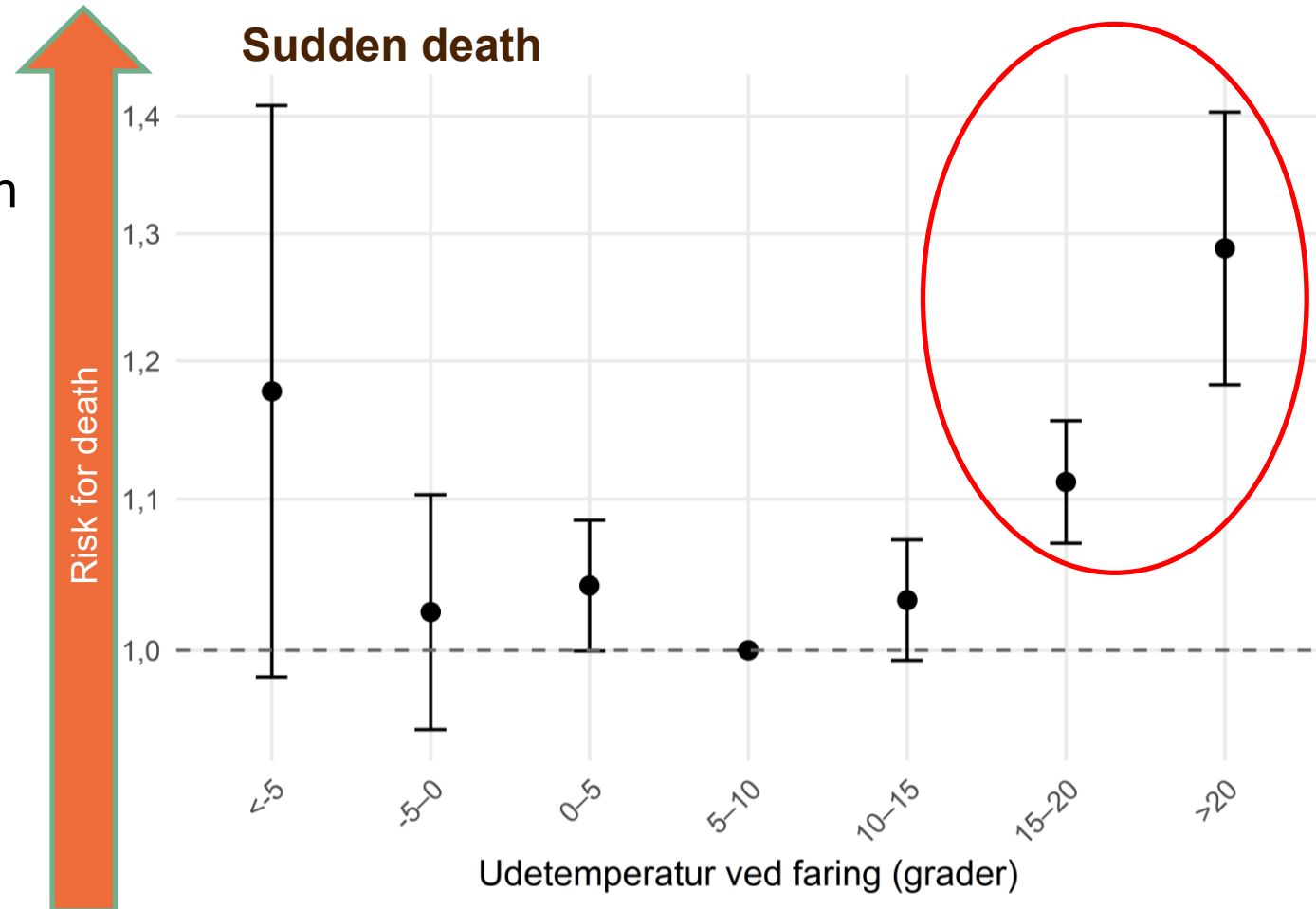
Svineafgiftsfonden

High outdoor temperatures increase the risk of sudden death

- Average daily temperatures > approx. 15°C
- Significantly increased risk of sudden death
- No association with cullings
- Average temperature - day, night and 24-hour
- Shows the same pattern

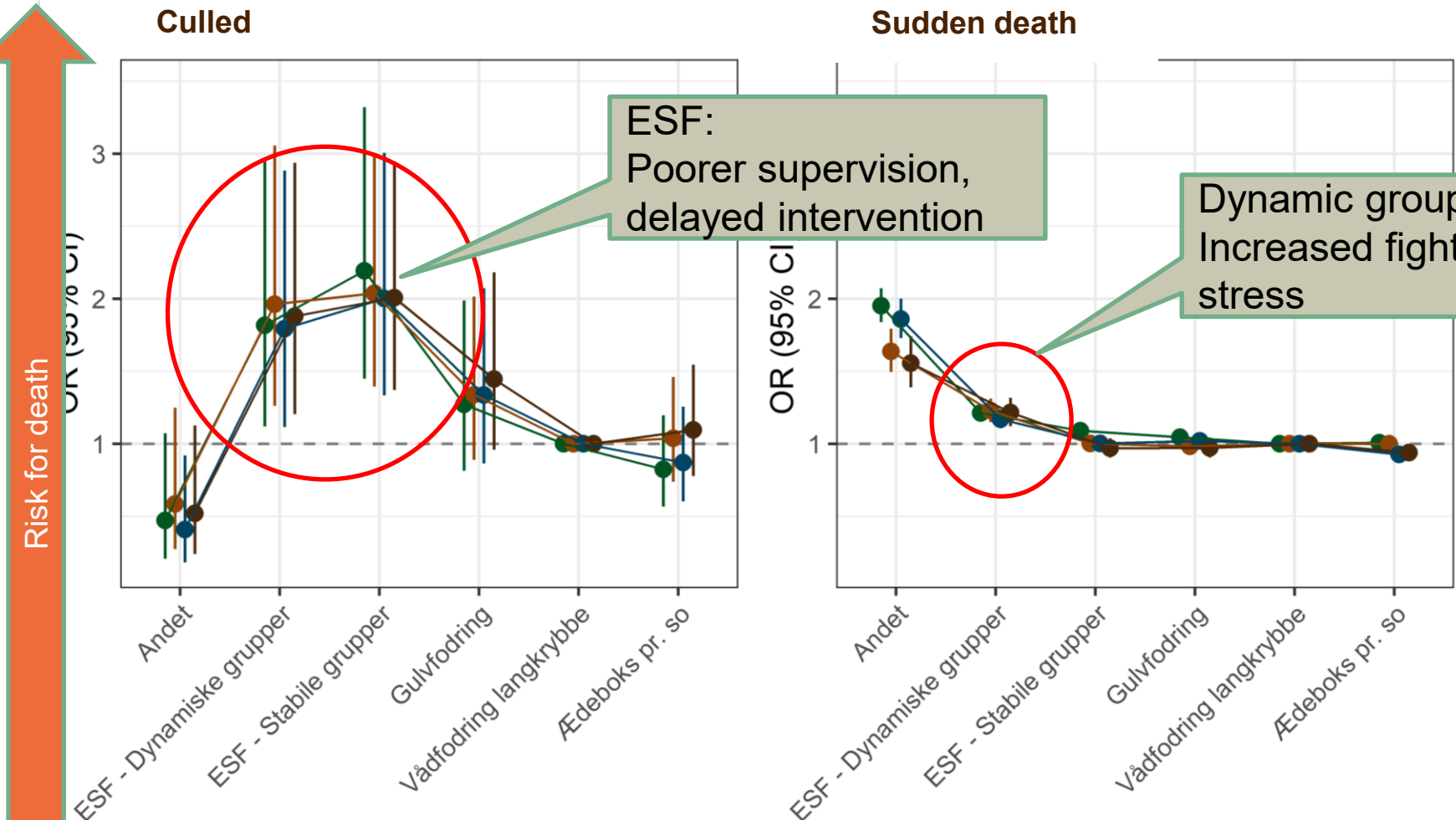
Focus on

- Ventilation and cooling
- Water supply
- Feeding strategy
- Monitoring and summer plan



Feeding system gestation unit (drægtighedsstald)

SEGES InSight – 225 herds

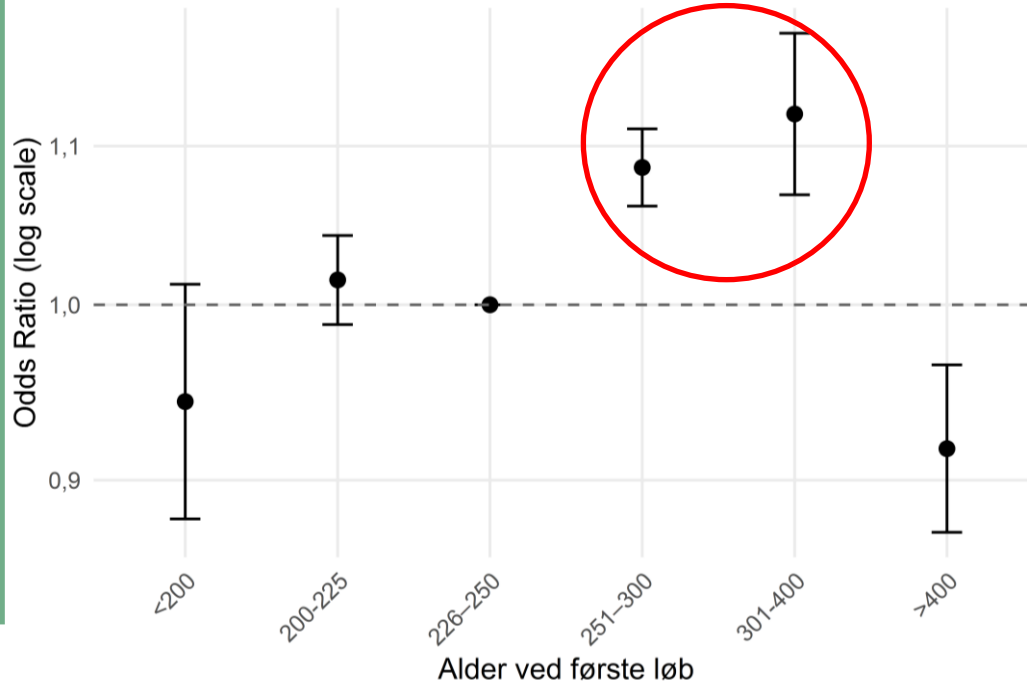


- Focus on
- ESF – Improved supervision, eg changed feeding order (æde-rækkefølge)
 - Dynamic groups are challenging
 - Sows must be adequately satiated (feed, straw)

Gilt age at first mating

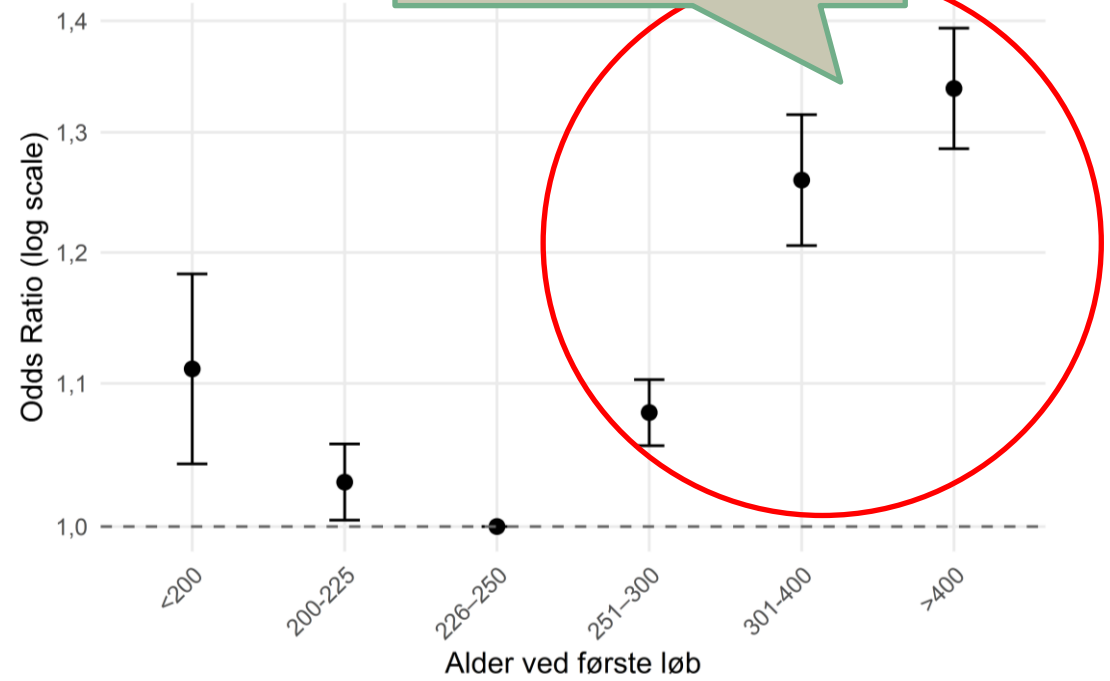


Culled



Culled because reproduction was poor?

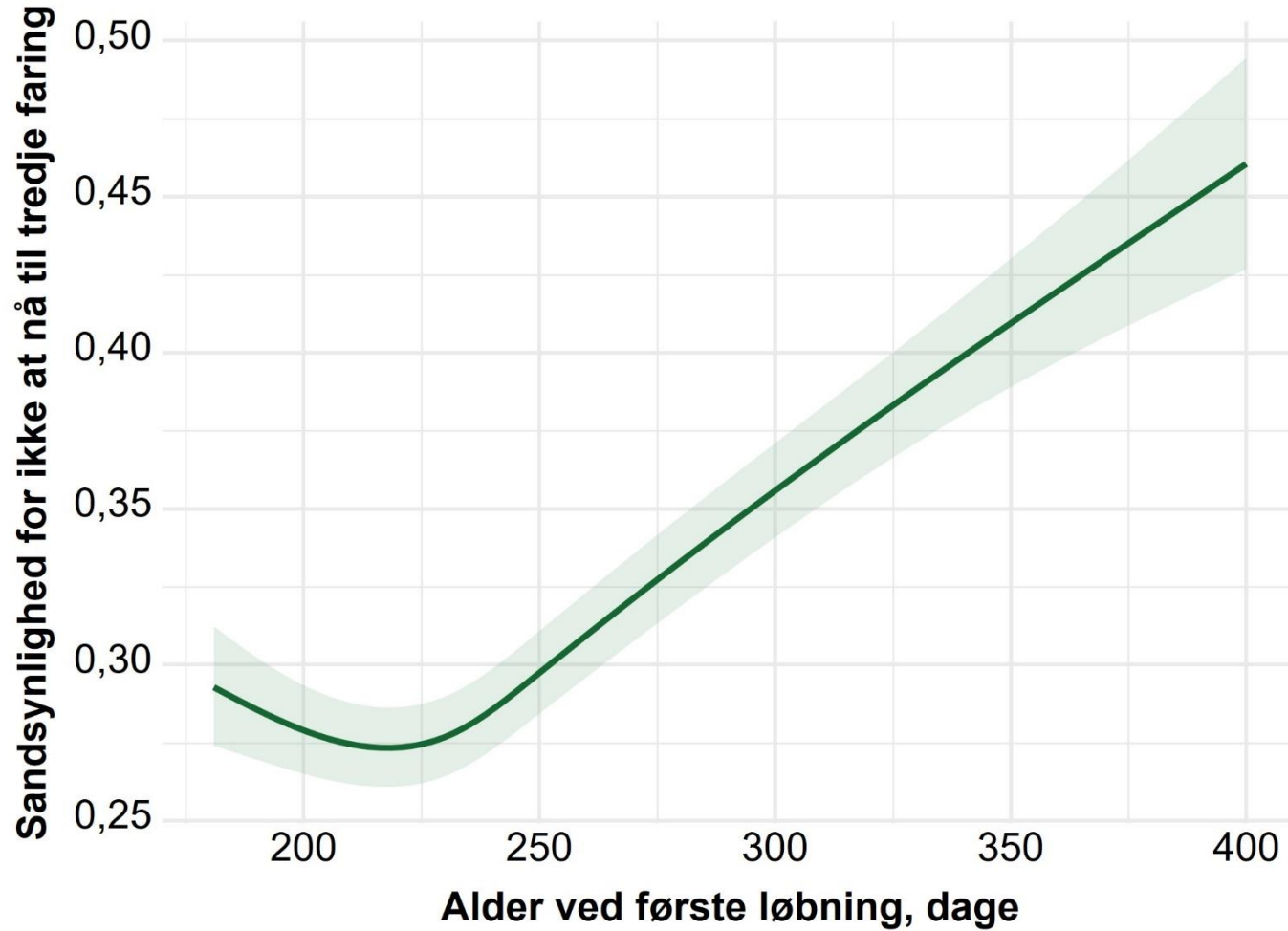
Sudden death



Late breeding because the gilt did not grow well?

Sows and gilts dead during entire cycle

Gilt age at first mating



Focus on age at first mating – a concrete and manageable focus area

- SEGES recommends 210-230 days (approximately 150-165 kg)

Conclusions

- Improved body condition management
 - eg. measure body condition using a backfat scanner
 - Overweight sows are costly – also in terms of organ torsions
- The period around farrowing is particularly critical
 - Focus on improving farrowing supervision, assistance and preparation
- Average outdoor temperatures $>15^{\circ}\text{C}$ increase the risk of sudden deaths
 - Remember preventive measures against heat stress
- ESF and dynamic groups in the gestation unit
 - Require extra effort to ensure improved supervision and reduced stress
- The foundation for a robust sow herd starts with the gilt!
 - Recommended age at first mating: 210–230 days



THANK YOU
for your attention