

The background of the slide is a photograph of several piglets in a farm setting. The piglets are light pink with some darker spots. They are huddled together, and their large, upright ears are prominent. The lighting is soft, and the overall tone is warm and natural.

Danish Pig Production - Management and behavior and how SEGES uses this knowledge

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22nd of February 2022

STØTTET AF

Svineafgiftsfonden

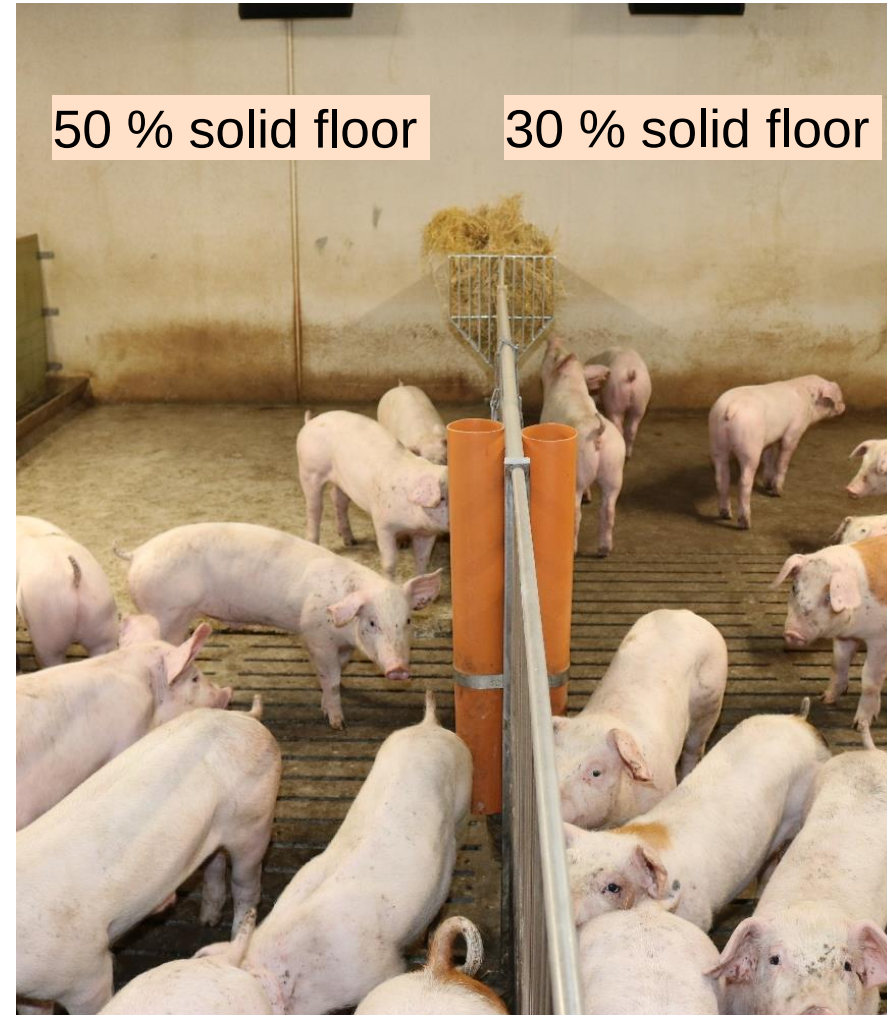
SEGES
INNOVATION

Focus on 3 topics from my daily work ;-)

- Fouling/manure on the solid floor – pigs from 30 kg to slaughter
- Rectal temperature – newborn piglets
- Sow mortality

Fouling/manure on the solid floor – pigs from 30 kg to slaughter

- 30 or 50 % solid floor?
- Using straw as a rooting material (tail biting)
- Environment issue (emission of ammonia)
- Behavior of the pigs



Chill effect

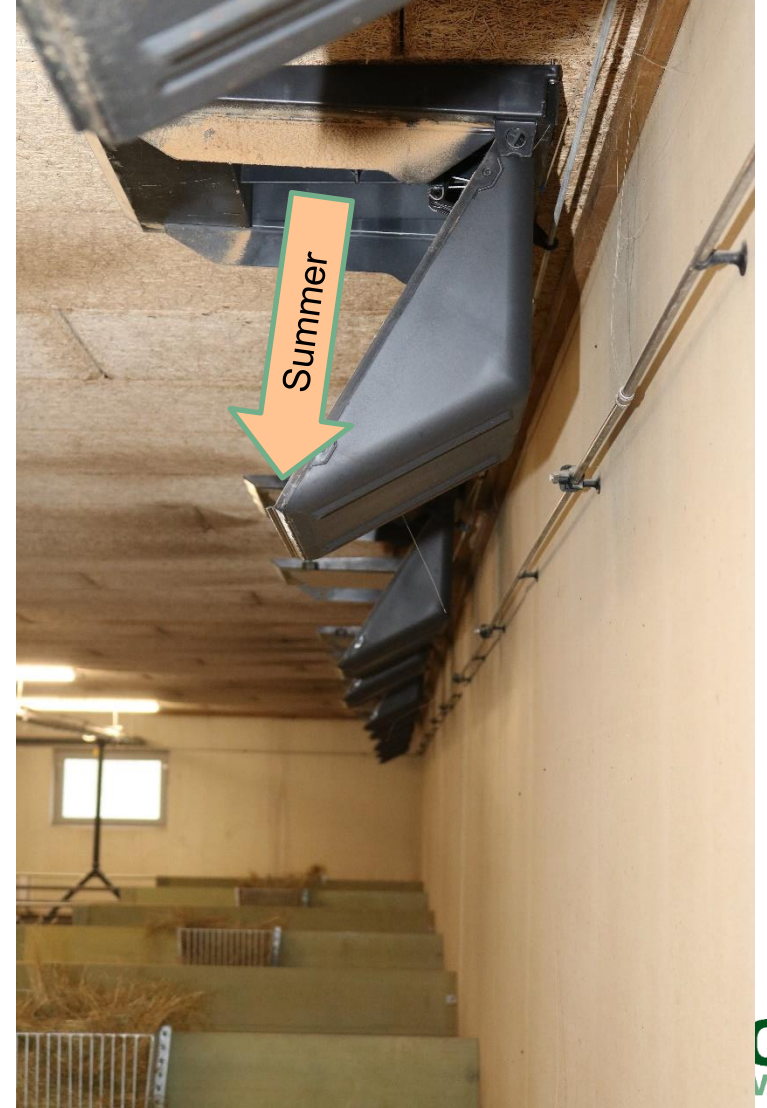
Table 4. Chill effect of velocity calculated by Eq. 1, assuming $c=-1$, $d=42\text{ }^{\circ}\text{C}$ and $e=0.25$.

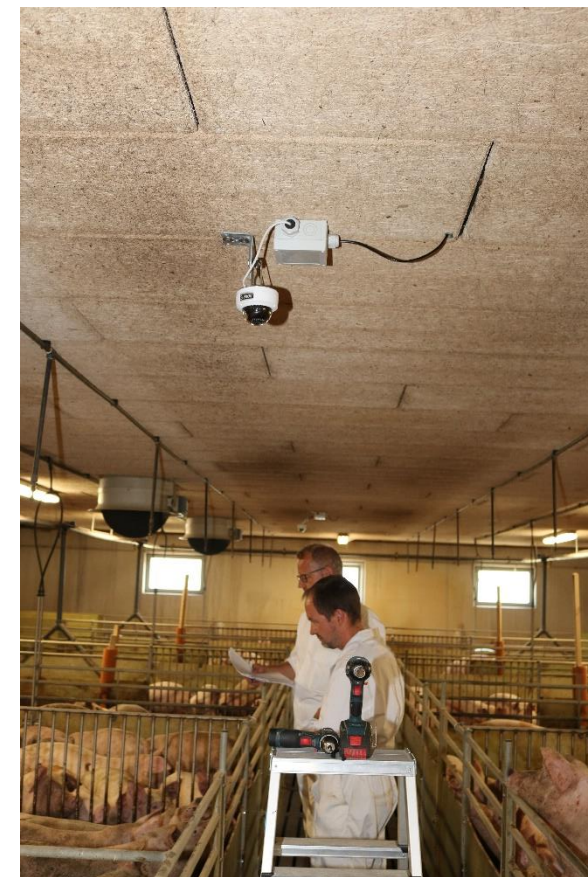
		Air velocity, m s^{-1}				
		0.2	0.5	1.0	2.0	3.0
Ambient temperature, $^{\circ}\text{C}$:	20	0	4	7	11	14
	24	0	3	6	9	12
	28	0	2	5	7	9
	32	0	2	3	5	6
	36	0	1	2	3	4

$$28 - 5 = 23 \text{ (experienced temperature)}$$

$$28 - 9 = 19$$

Air inlet in the ceiling





STALD 4 06-05-21

Day 19 09:30 Follow up on laying behavior / temperature

Stald4-Højre-box3



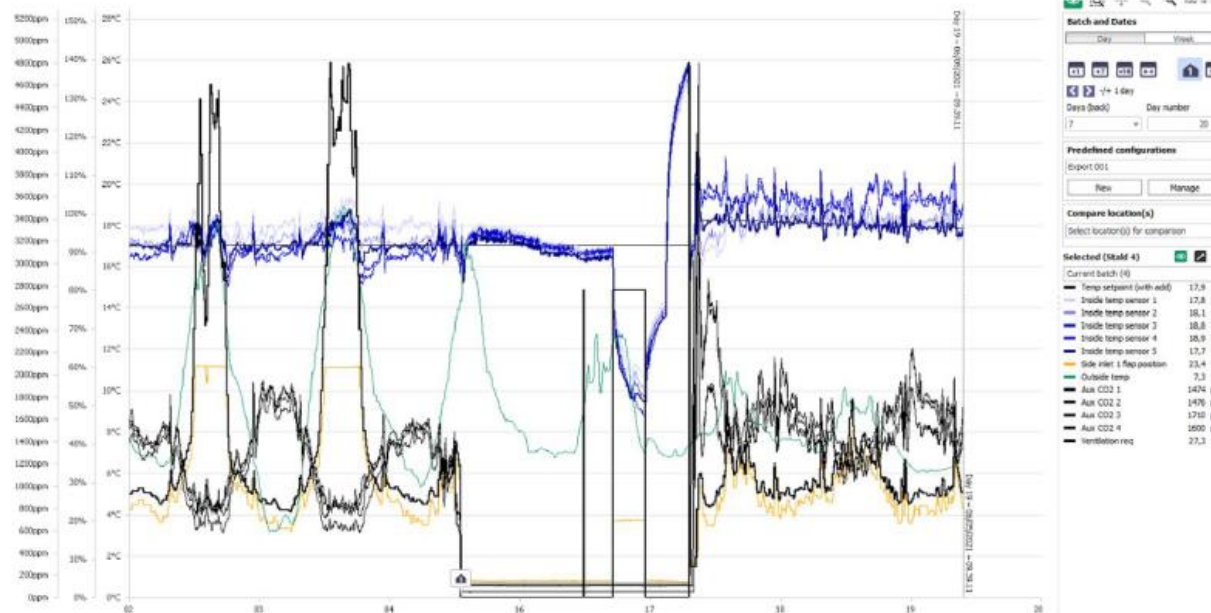
Stald4-Højre-box4



Stald4-Venstre-box7



Stald4-Venstre-box8



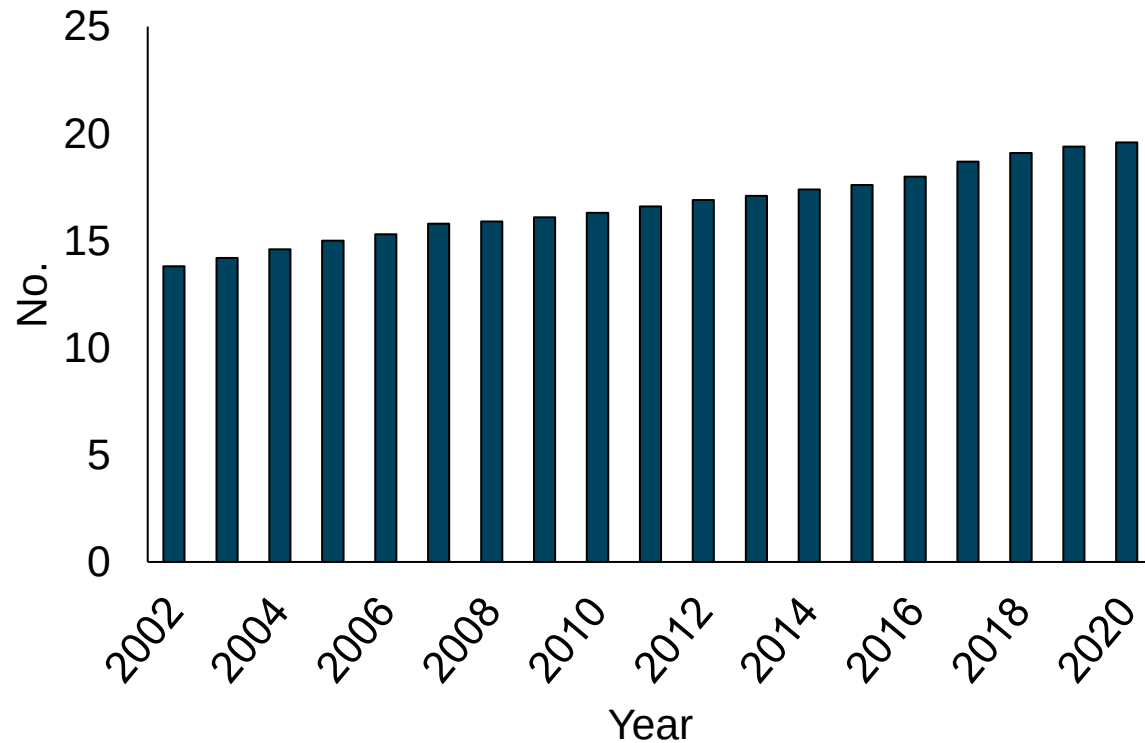
- Aktuell lejeadfærd ok

Focus on 3 topics from my daily work ;-)

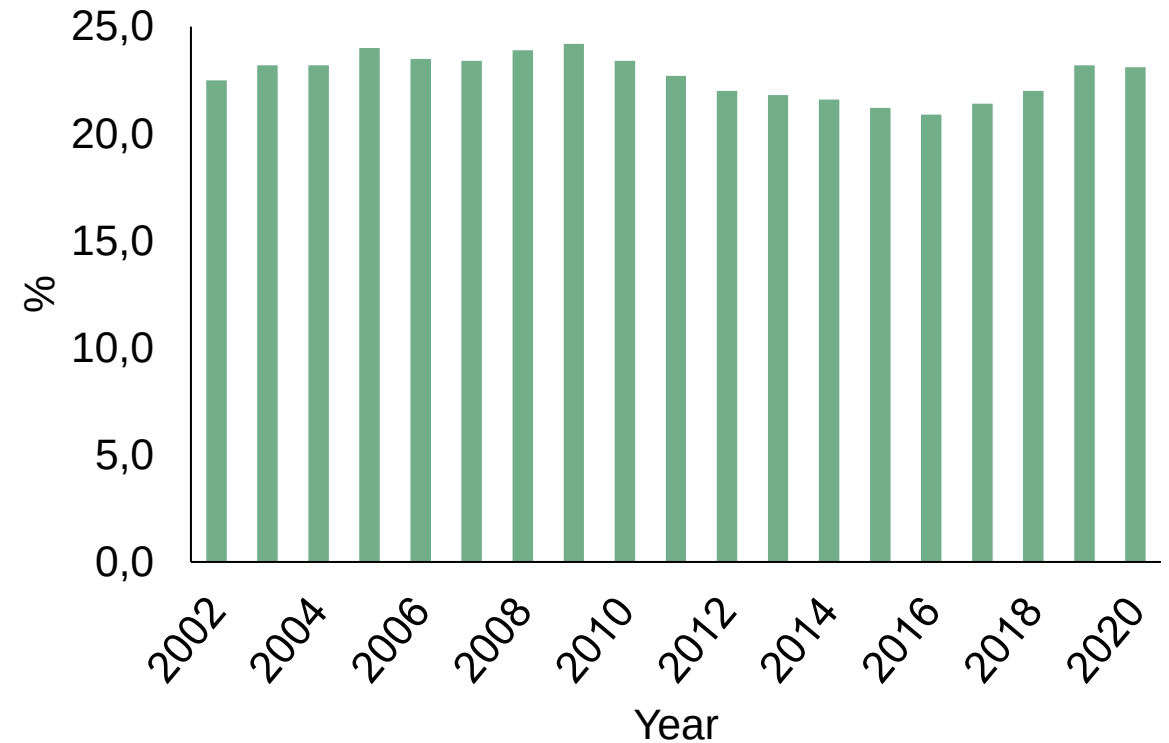
- **Fouling on the solid floor – pigs from 30 kg to slaughter**
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Higher litter size and higher piglet mortality

Litter size



Total piglet mortality



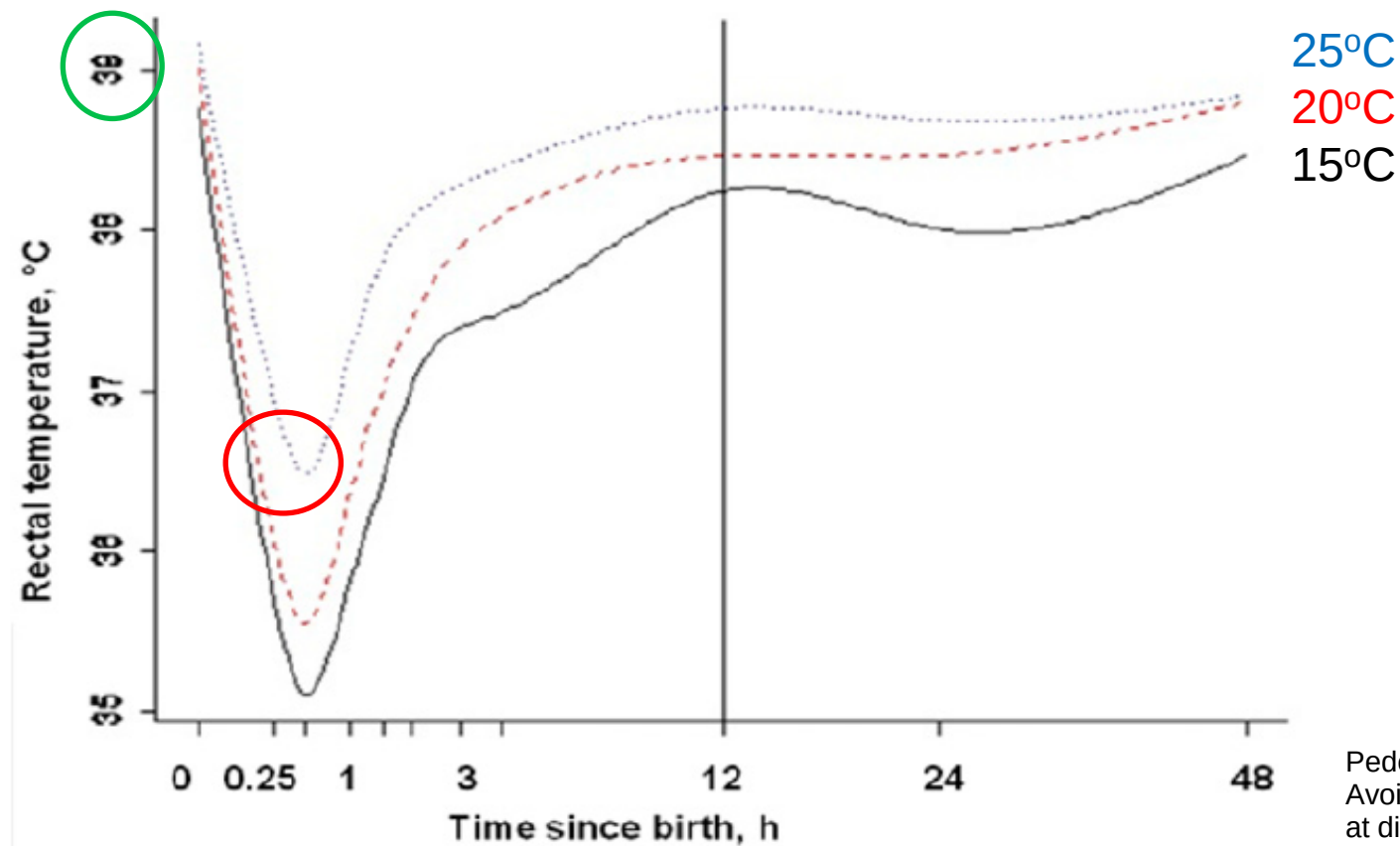
Focus on

Before parturition

During parturition

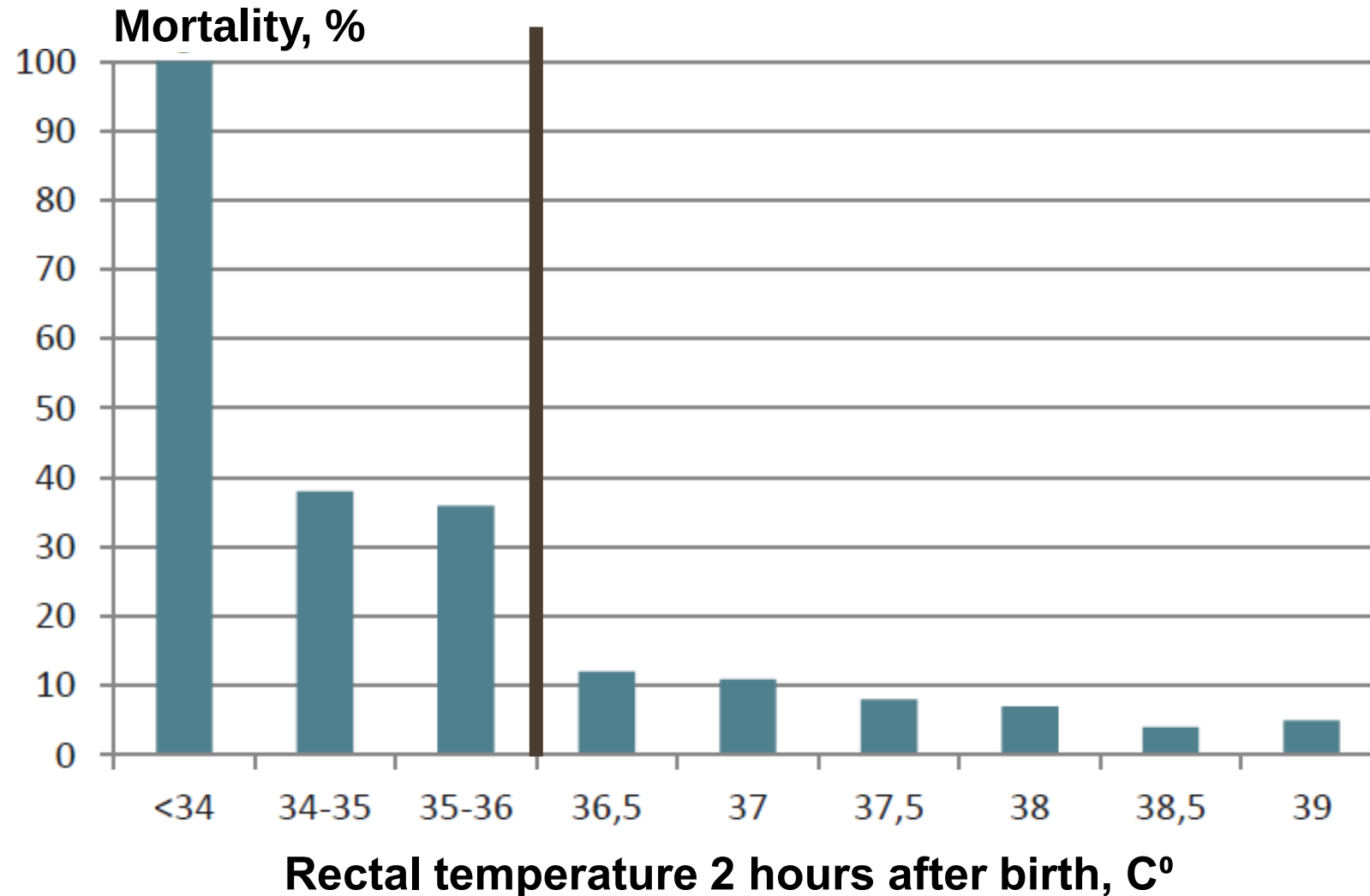
After parturition

Room temperature (15, 20 og 25 °C) and rectal temperature (time after birth)



Pedersen, LJ.; J. Malmkvist; T. Kammergaard; E. Jørgensen (2013).
Avoiding hypothermia in neonatal pigs: Effect of duration of floor heating
at different room temperatures. J. Anim. Sci. 91:425-432.

Mortality and rectal temperature – time after birth



Meddelelse 1087

Experiment

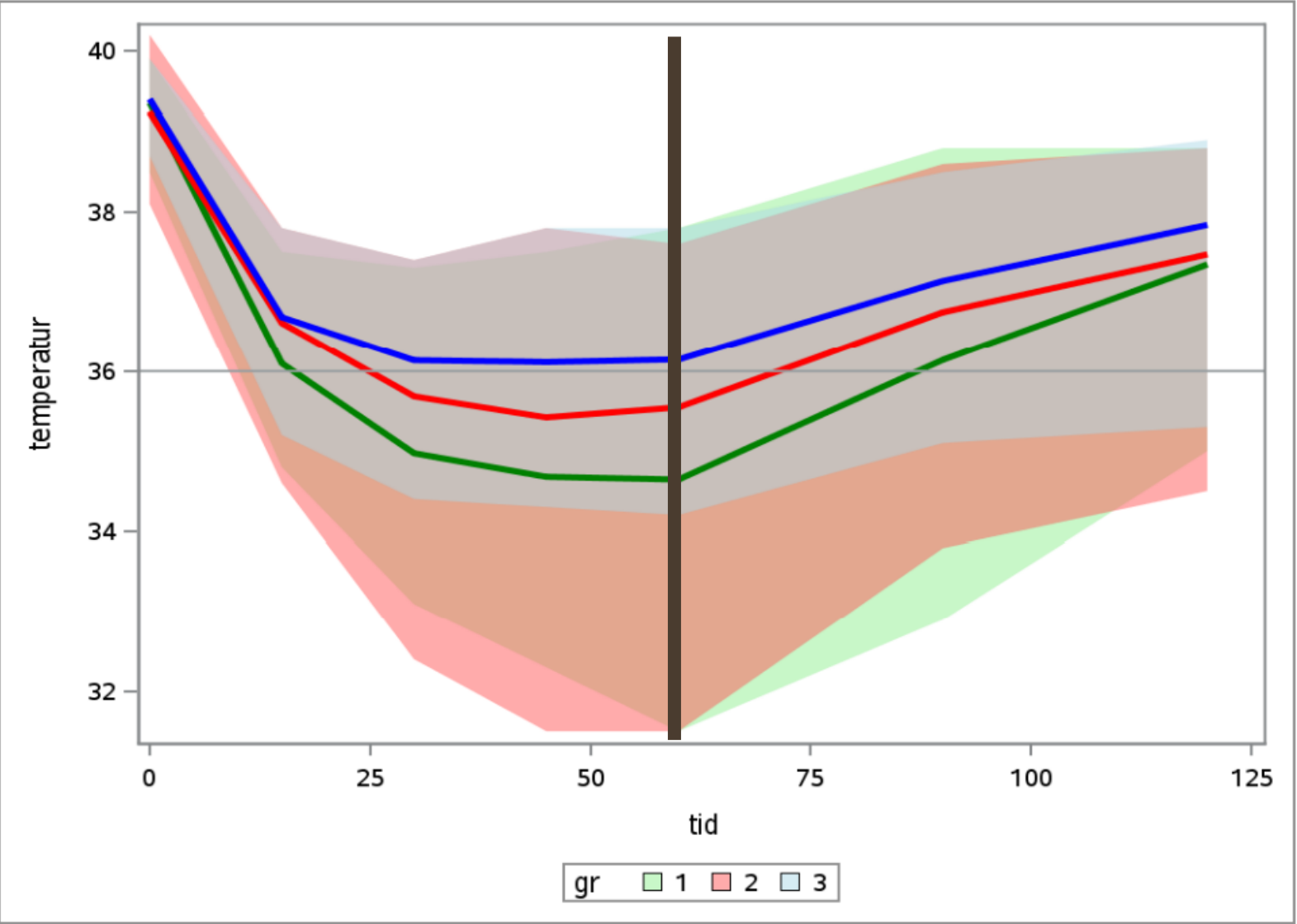


- **Control**: Piglets on slatted floor for 60 minutes
- **Treatment 15**: Piglets on warm mat for 15 minutes and 45 minutes og slatted floor
- **Treatment 60**: Piglets on warm mat for 60 minutes
- Moved to the sow after 1 hour

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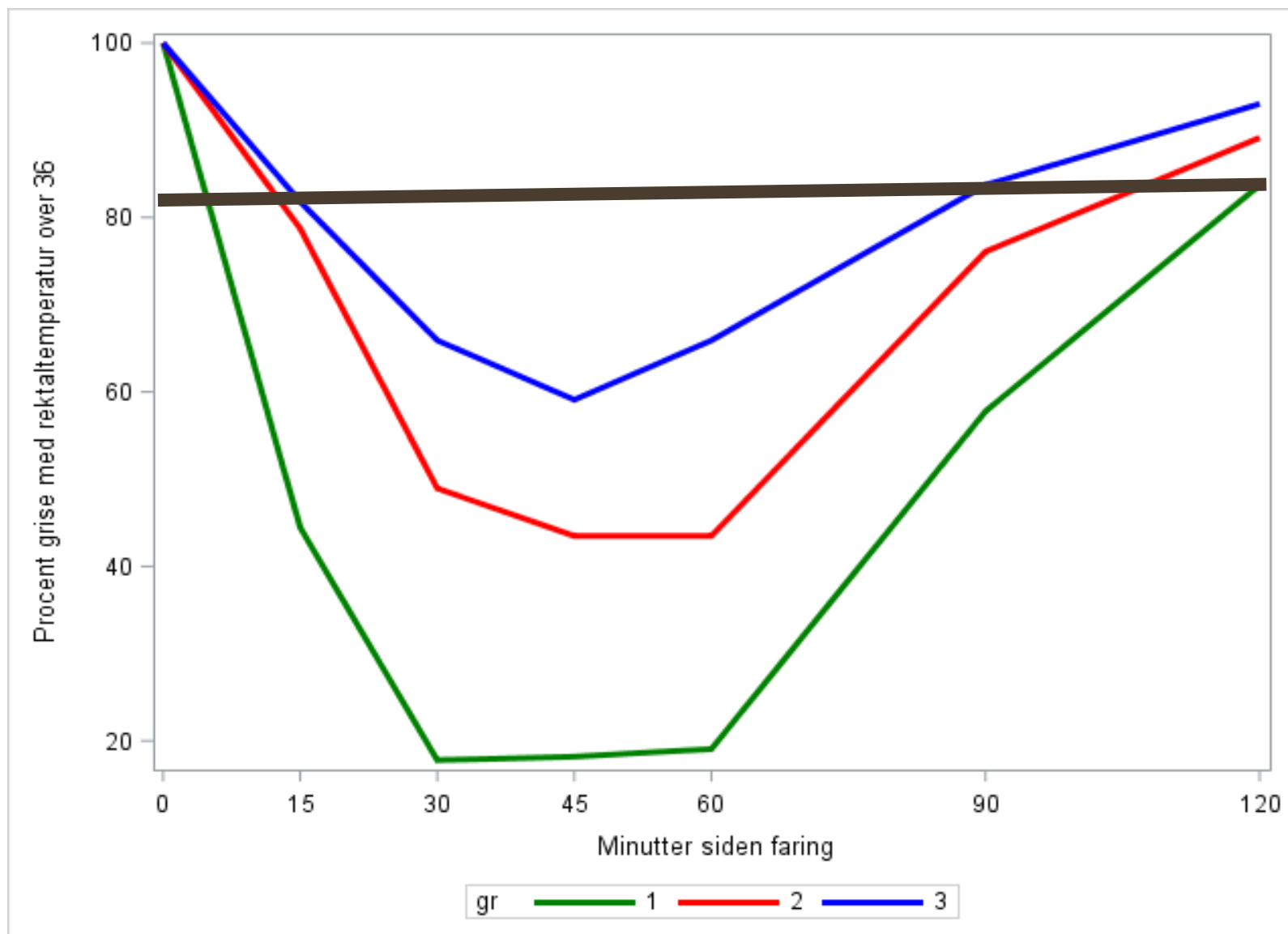
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Rectal temperature from birth until 120 minutes after birth



- Control
- Treatment 15
- Treatment 60

Percentage pigs with rectal temperature over 36 °C



- Control
- Treatment 15
- Treatment 60

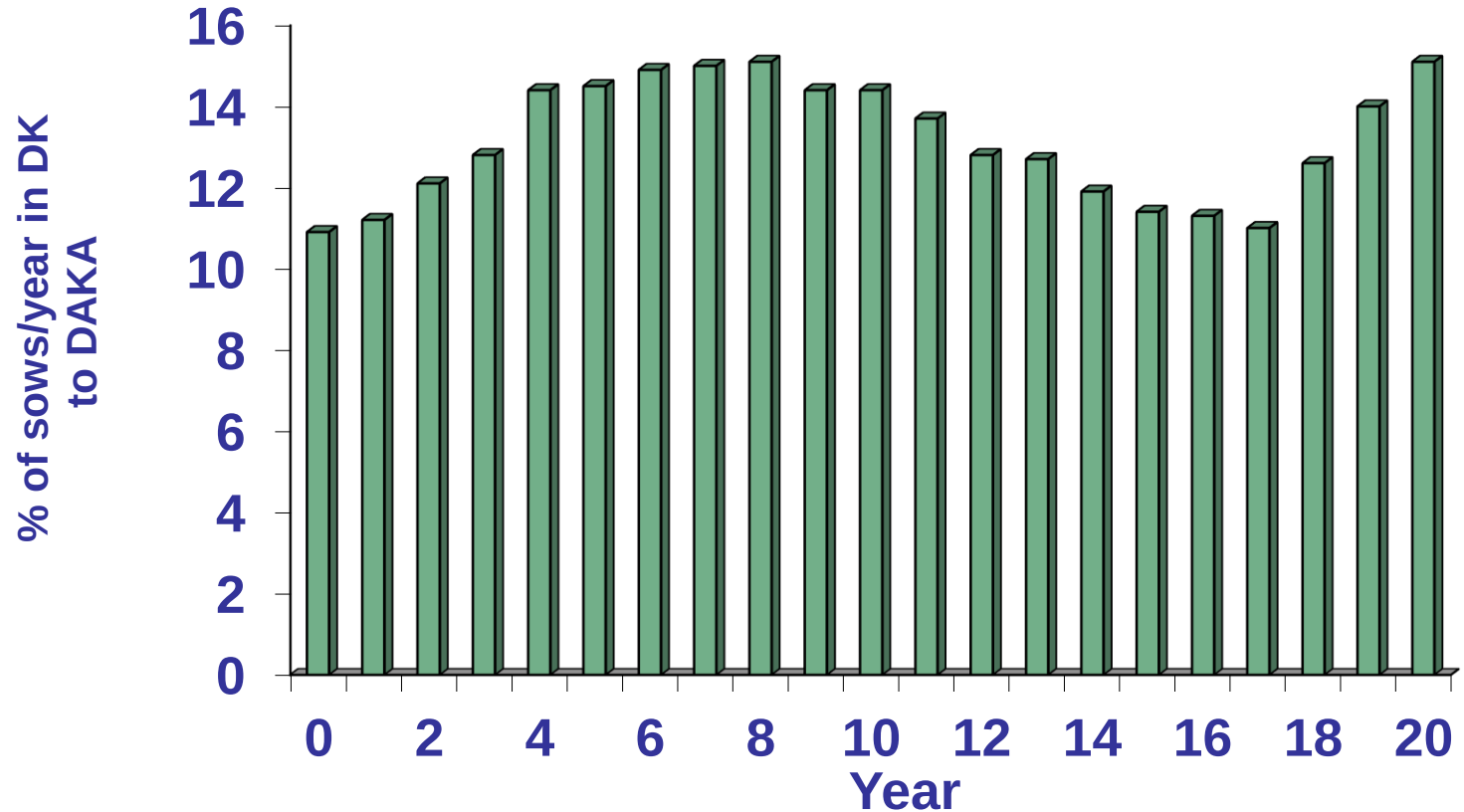
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Development in sow mortality 2000-2020



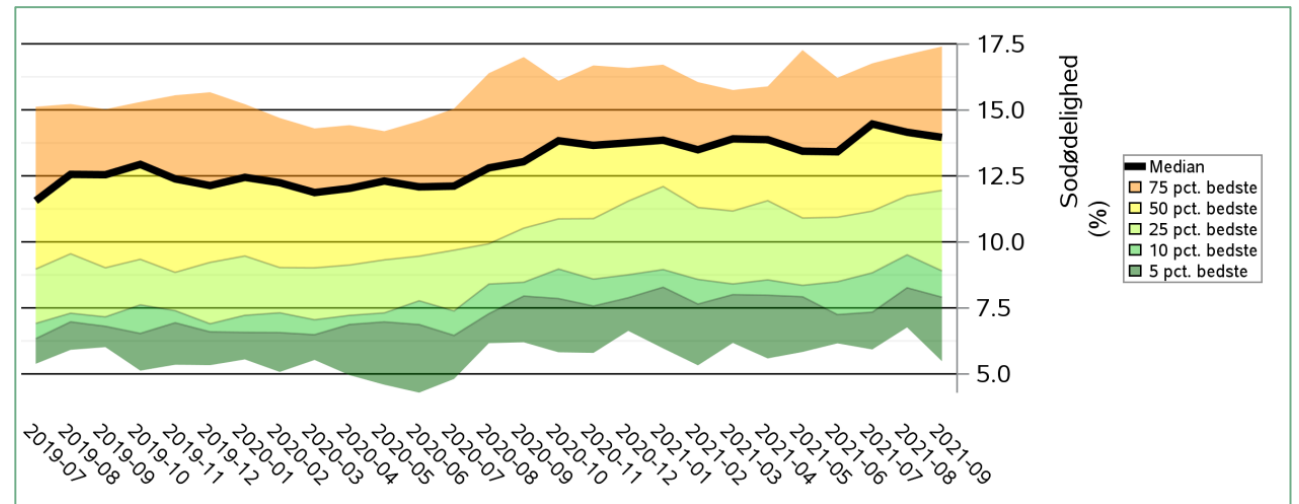
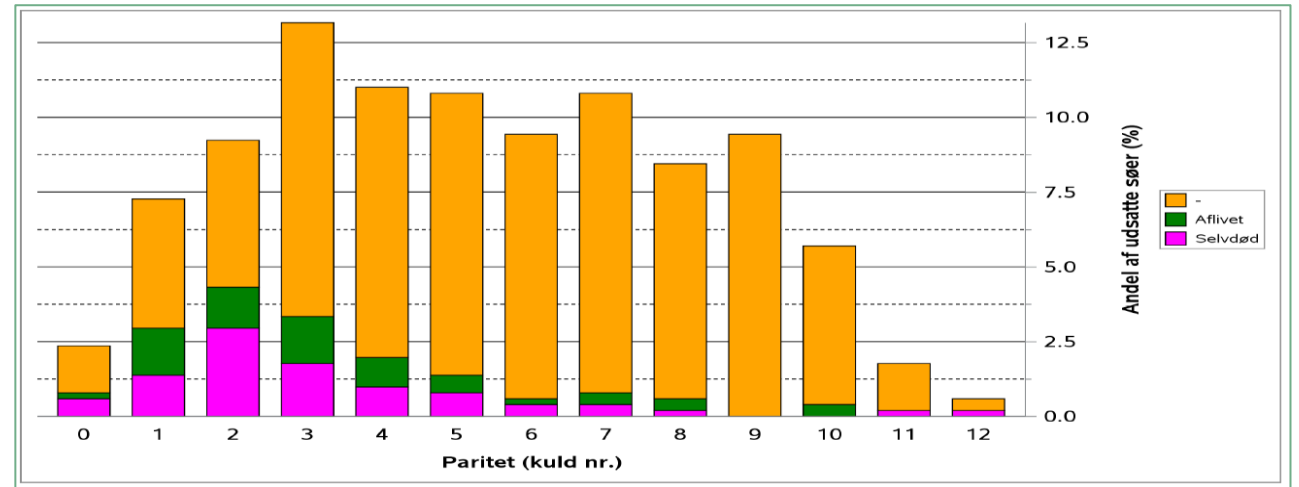
SoLiv 2.0



- Licence to produce – improved job satisfaction – improved economy
- Industry aim of 9% dead/euthanized sows of sows/year
- Need for an increased effort on most farms

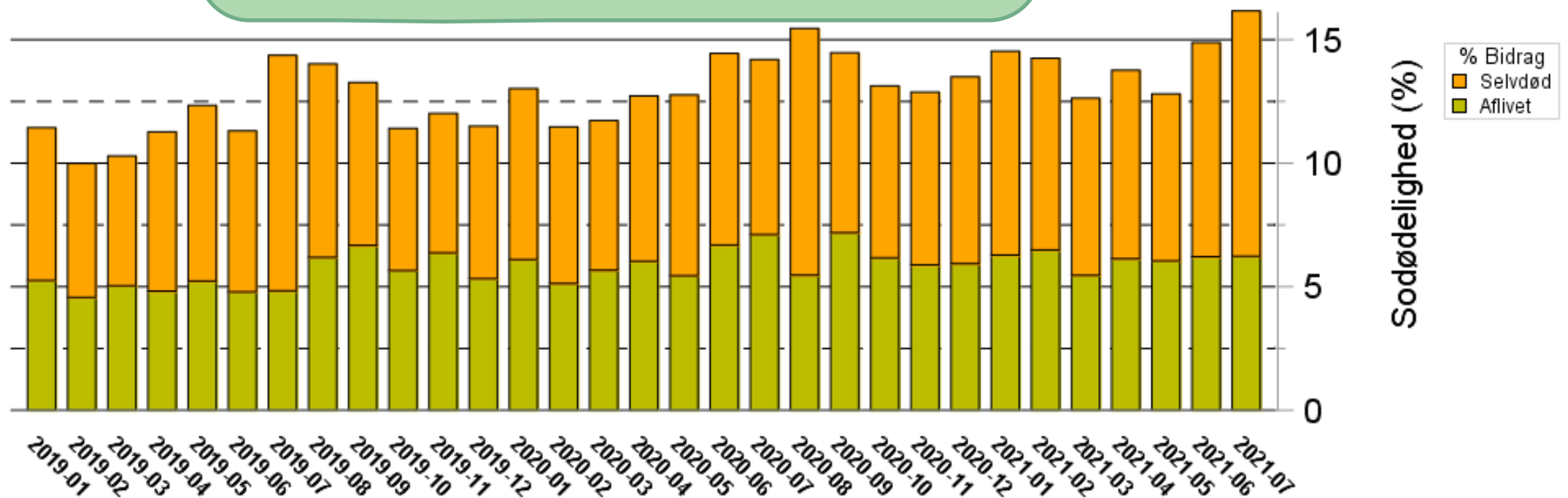
Improved insight at herd level with new SEGES tool

- Use information from your own herd
 - Parity
 - Time in cycle
 - Dead – euthanized
 - Diagnosis
- Benchmarking
 - Approx. 70,000 sows included in SEGES analyses



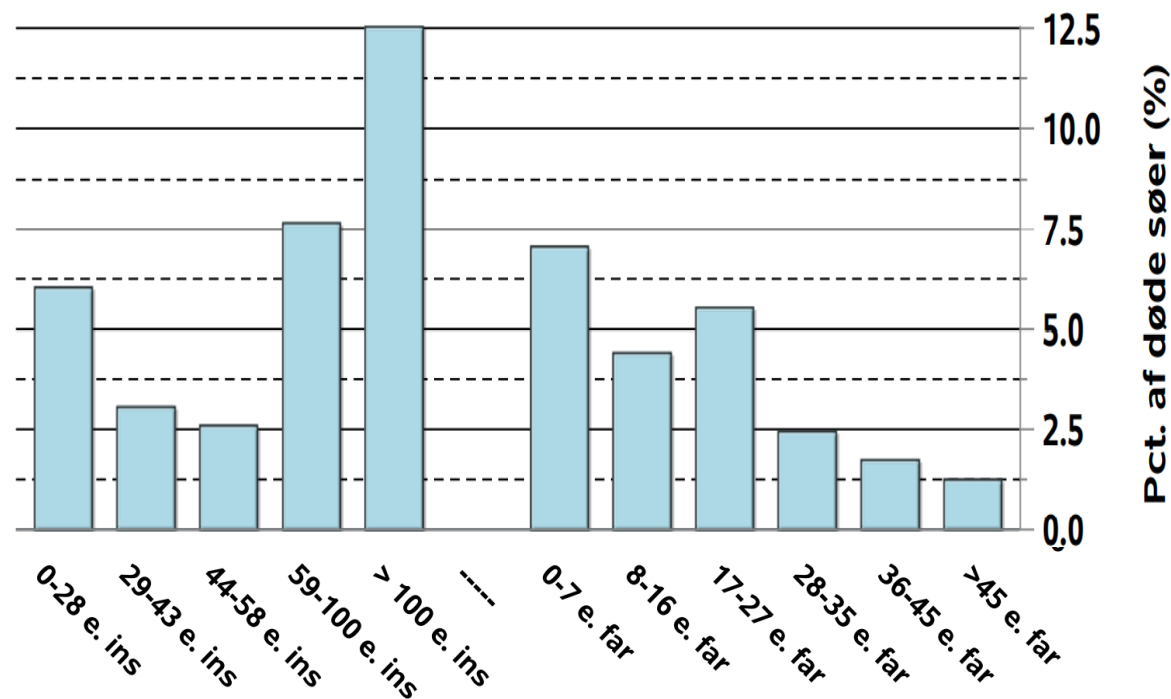
Distribution of sows that die or are euthanized (2019-2021)

- 50-60% dead
- 40-50% euthanized

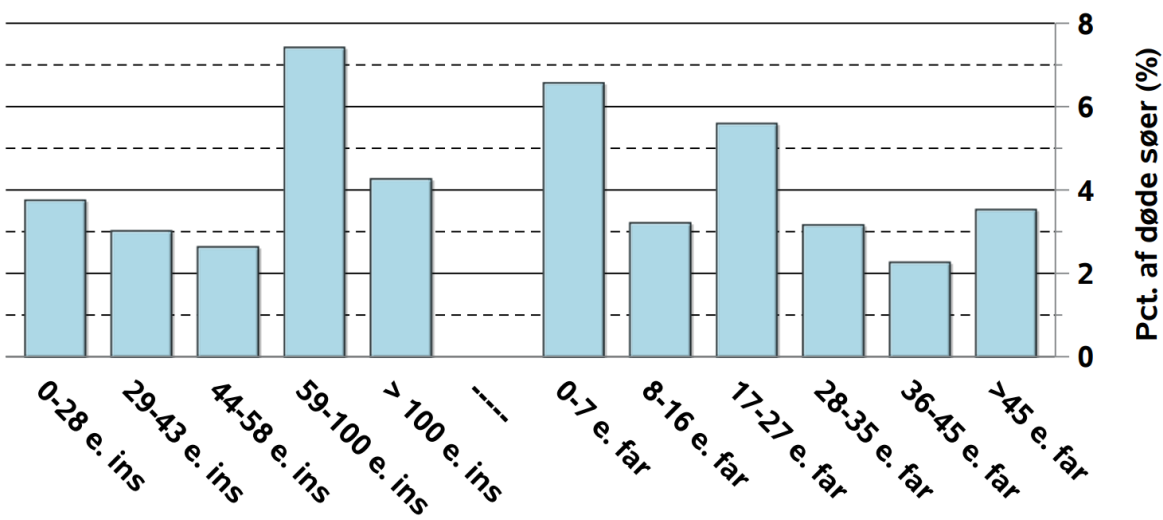


Time in cycle when sows die or are euthanized, % of sows

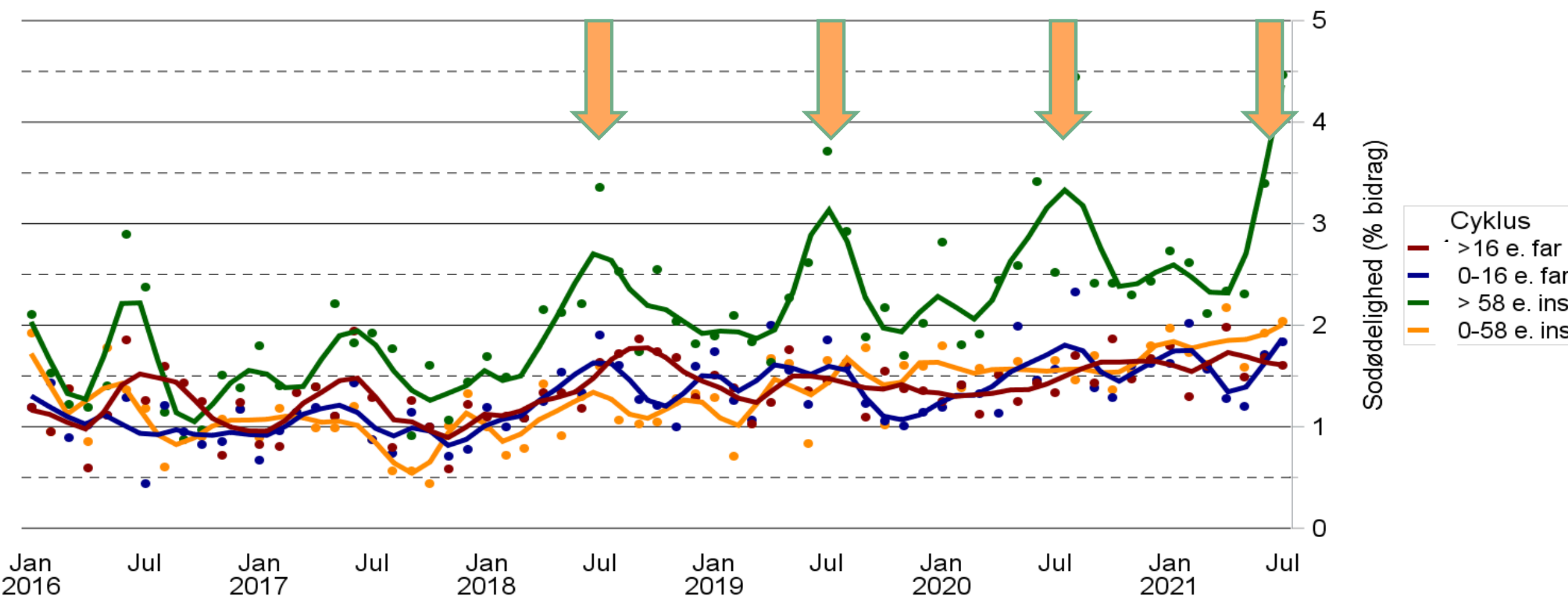
Dead



Euthanized



Distribution of sows that dies





Claws



Feeding of gilts and sows
Body condition



Introduction of gilts
Housing of gilts
Selection of gilts

Increased sow
survival rate
– focus on sow
mortality



Daily supervision
Use hospital pens

Grouping of gilts and sows
Floor and lying area



Daily work in the gestation unit

- Clean solid floor when needed
- Check that all sows eat their ration
- Mark 'OBS sows' for the daily supervision
- Take care of sows with severe problems



Daily inspection is a task in itself

- All sows must be observed moving every day
 - 90% of all treatments are caused by leg and claw problems
- Work two and two together!
- Pay extra attention to gilts and pens with newly-grouped gilts/sows
- Straw will encourage the sows get up
- Systems and clear arrangements
 - Herd vet
 - Monitor 'OBS sows' the following days
 - Journal / mark treated sows
- Move severe cases to hospital pen



Location of hospital pens – it must be easy!



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 - Management – management
 - Focus on the daily inspection and use of hospital pens
 - SEGES tool can help 😊