

Se webinarret "The piglet's journey – The newborn pig" på SEGES.TV:

<https://www.seges.tv/video/76091644/the-piglets-journey-from-6>



Se tilmeldingsside her:

<https://www.seges.tv/live/75754505>

Præsentationen fra webinarret kan ses af de følgende slides.

Hvis du ikke kan få adgang til videoen, kan du kontakte SEGES Innovation P/S. Videoen er dokumenteret på SEGES.TV og i projektets arkiv.

STØTTET AF

Svineafgiftsfonden

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A close-up photograph of a newborn piglet lying in a farrowing crate. The piglet is pink and has its eyes closed. It is positioned in front of a red metal bar. In the background, other piglets are visible, some with colorful markings on their backs. The lighting is warm and focused on the piglet.

Welcome The newborn piglet 8 June, 2022

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The speakers today



Trine Friis Pedersen



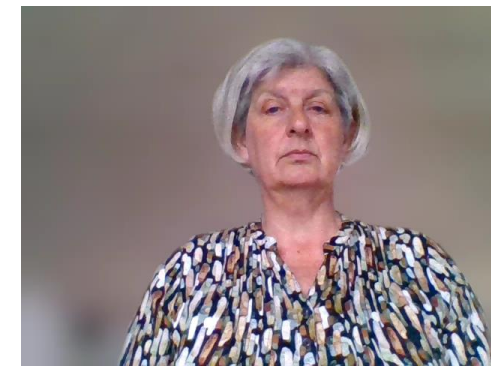
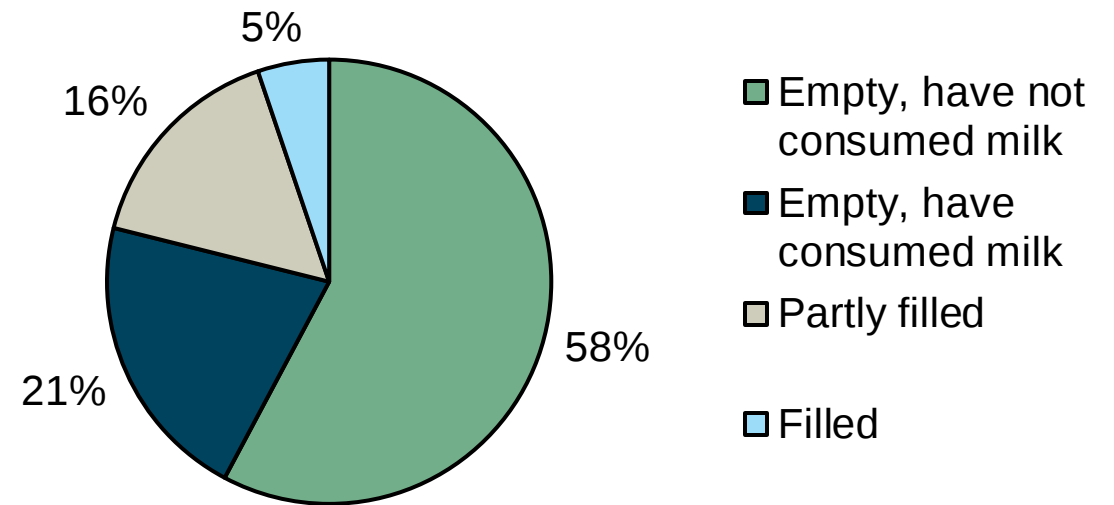
Dorte Poulsgård

The agenda for today

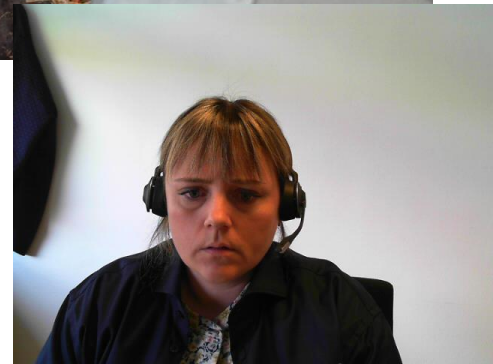
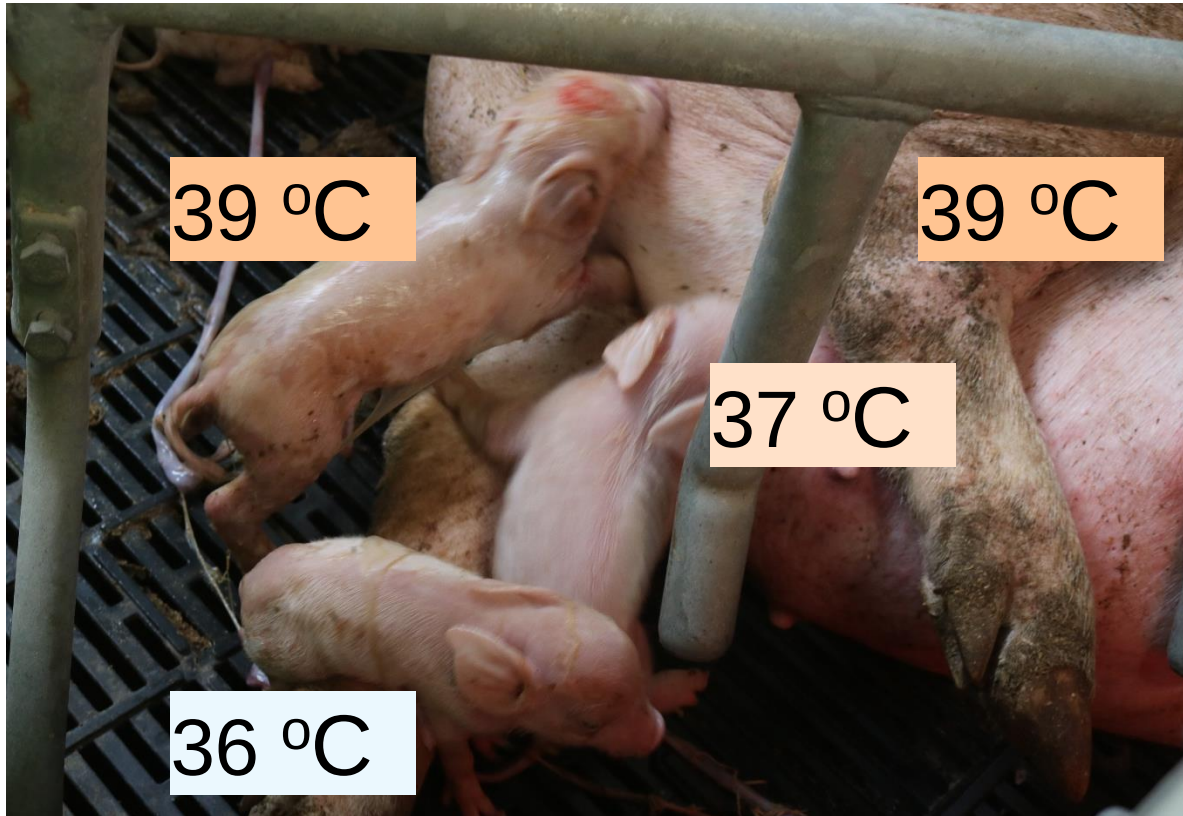
- Heat
- Colostrum
- How to ensure colostrum for the piglet
- Milk supply
- Recommendations for litter equalization
- Take home messages

What challenges are we facing

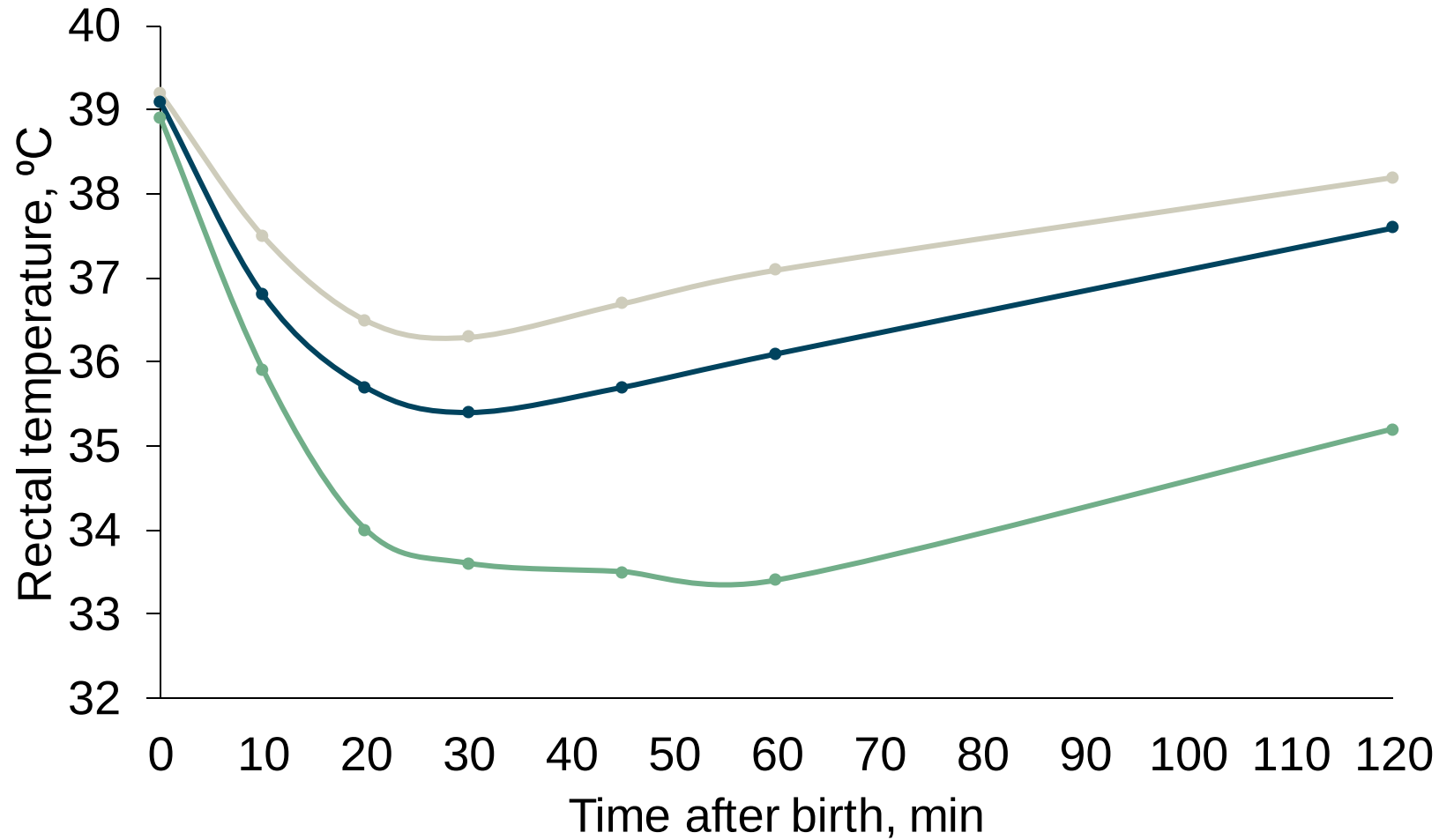
- 17.6 liveborn piglets
 - Huge variation (0.4 to 3.0 kg)
 - Small piglets have a greater need for heat
 - All piglets need colostrum and milk
- 50% of sows have 14-15 teats
 - Recommended: one pig pr. teat



Temperature is important for the newborn piglet



Smaller piglet = bigger temperature drop Reestablishment takes a long time

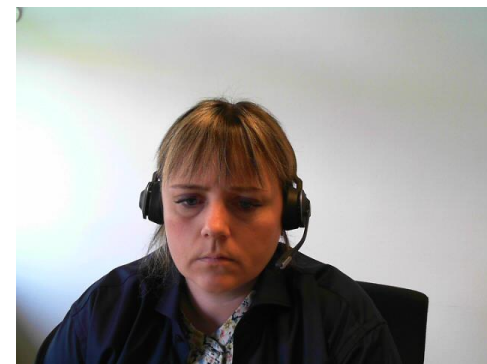
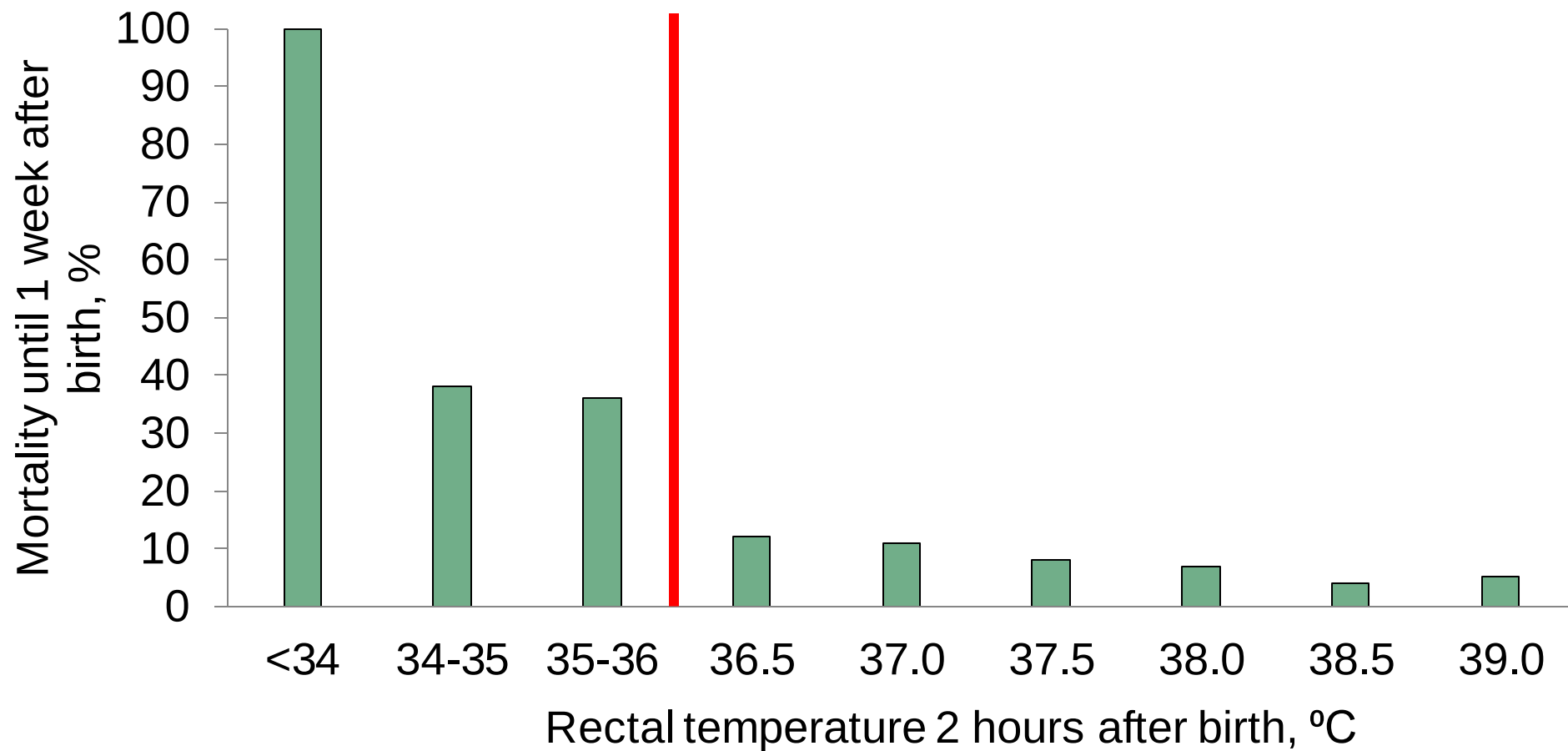


Room temperature
22.5 °C

— >1.5 kg
— 1.0-1.5 kg
— <1.0 kg



Temperatures above 36 °C increase survival



Four different ways to ensure heat



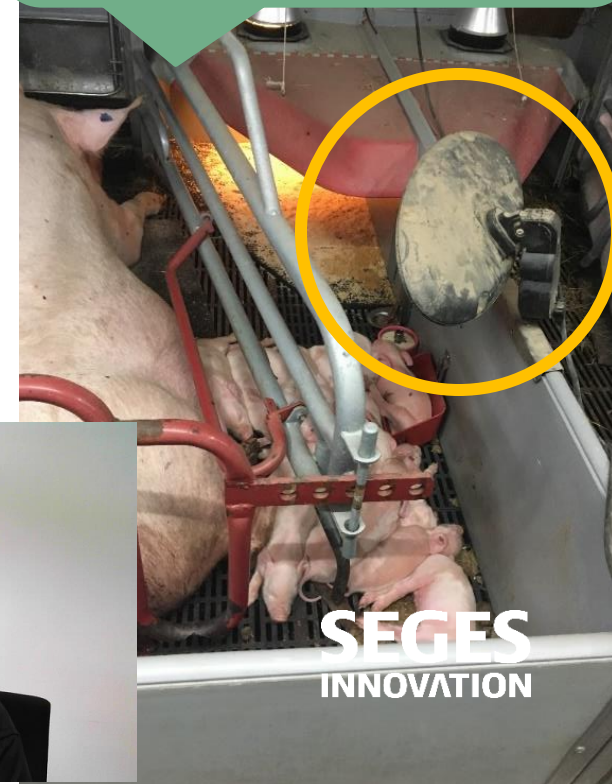
Piglet survival
increased from
88 to 92%



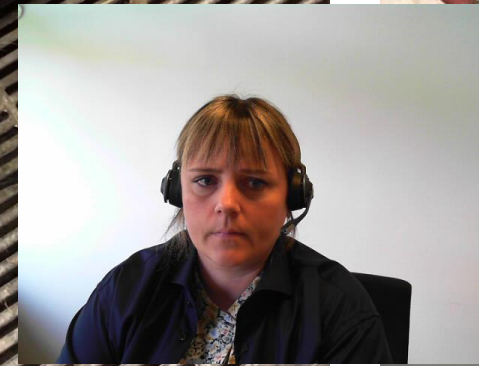
Higher
temperature for
all piglets

Piglet heat loss
reduced by 40%

Small piglets with
>36°C increased from
60% to 78%



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Colostrum

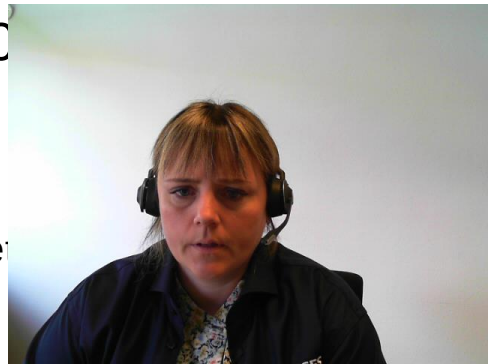
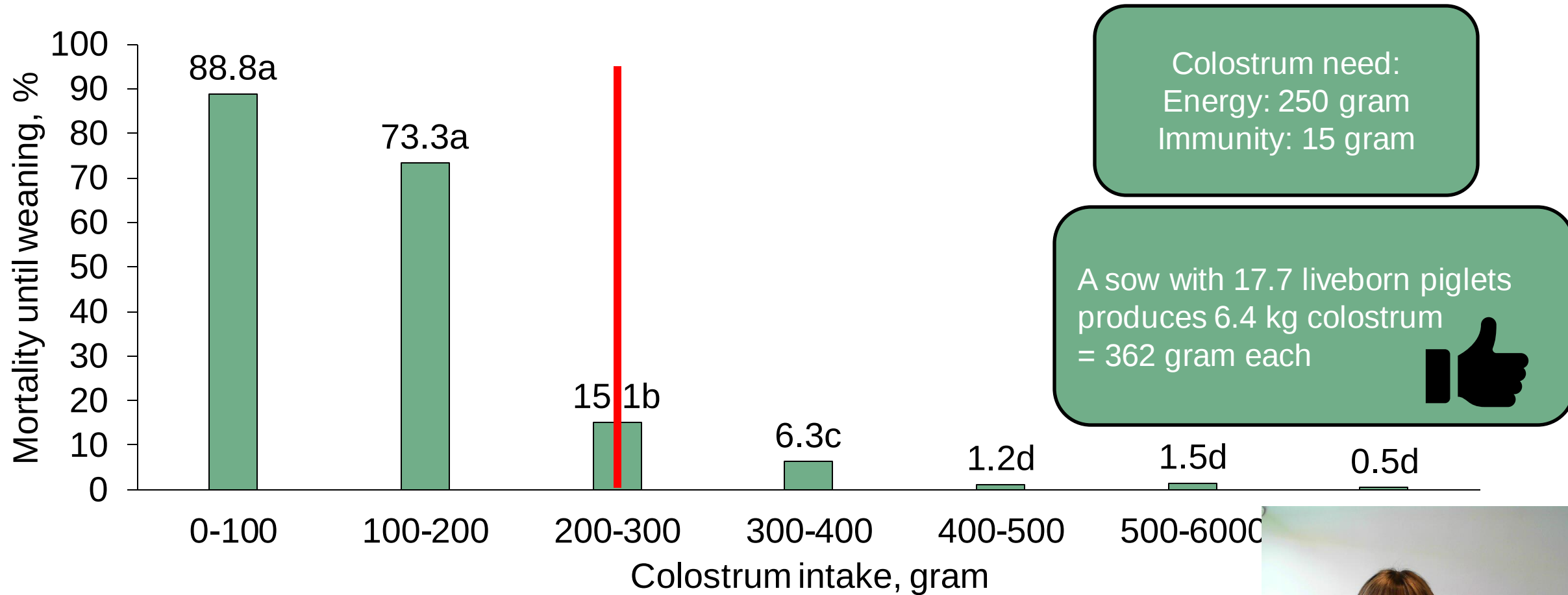
- Is the milk produced 0-24 hours after birth of first piglet
- Free bar during farrowing → cyclic milk let down
- Provides piglets with:
 - Water
 - Energy
 - Nutrients (protein, fat, vitamins and minerals)

Colostrum covers the requirement for different needs

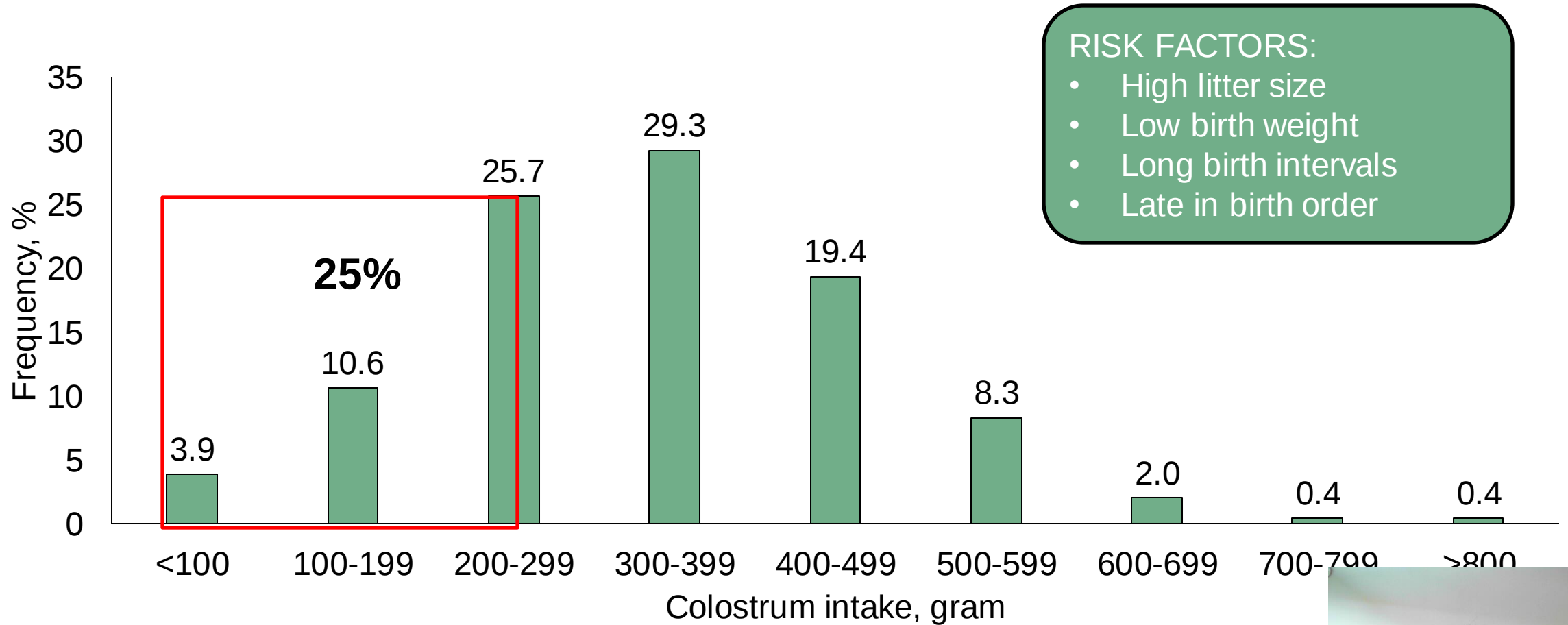
hormones and growth factors



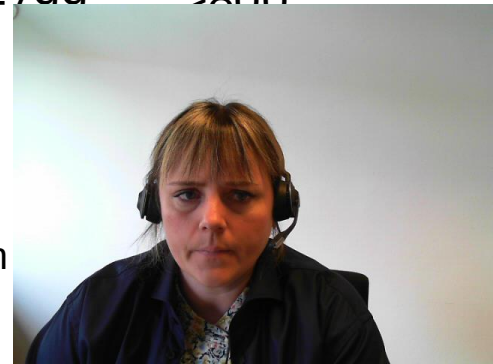
250 gram colostrum = good chance for survival



Variation in piglets' colostrum intake



Pedersen



How to secure colostrum for all piglets

- Help small and weak piglets to the udder
- General recommendation: 8 hours
- Adjust litter size (continuously)
 - Mark first-born piglets
 - Move first-born large piglets
 - Move small piglets to a small nurse (with colostrum)
 - The remaining piglets stay with own mother
- Alternatively: Split suckling



Can you feel colostrum in newborn piglets' stomach?



Report n



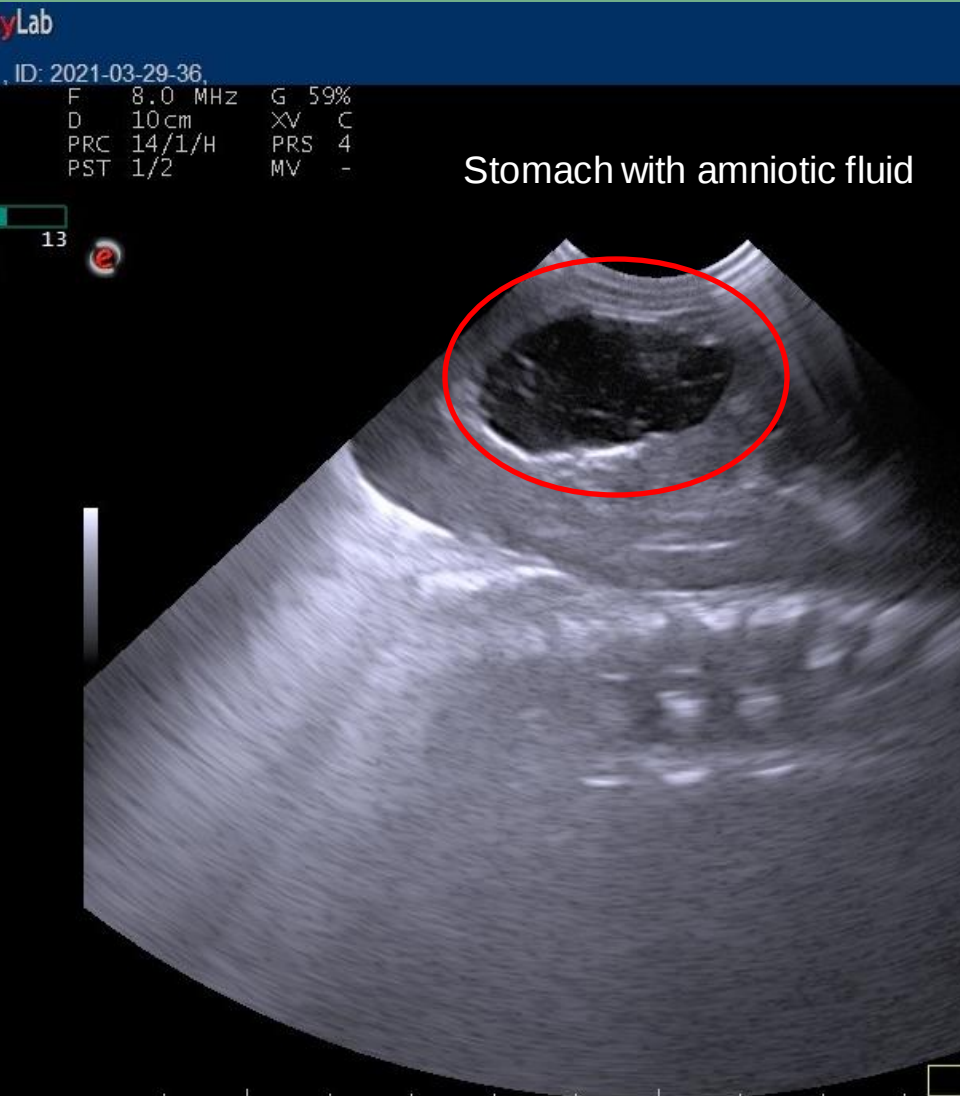
Where is the stomach and what/how do we feel?



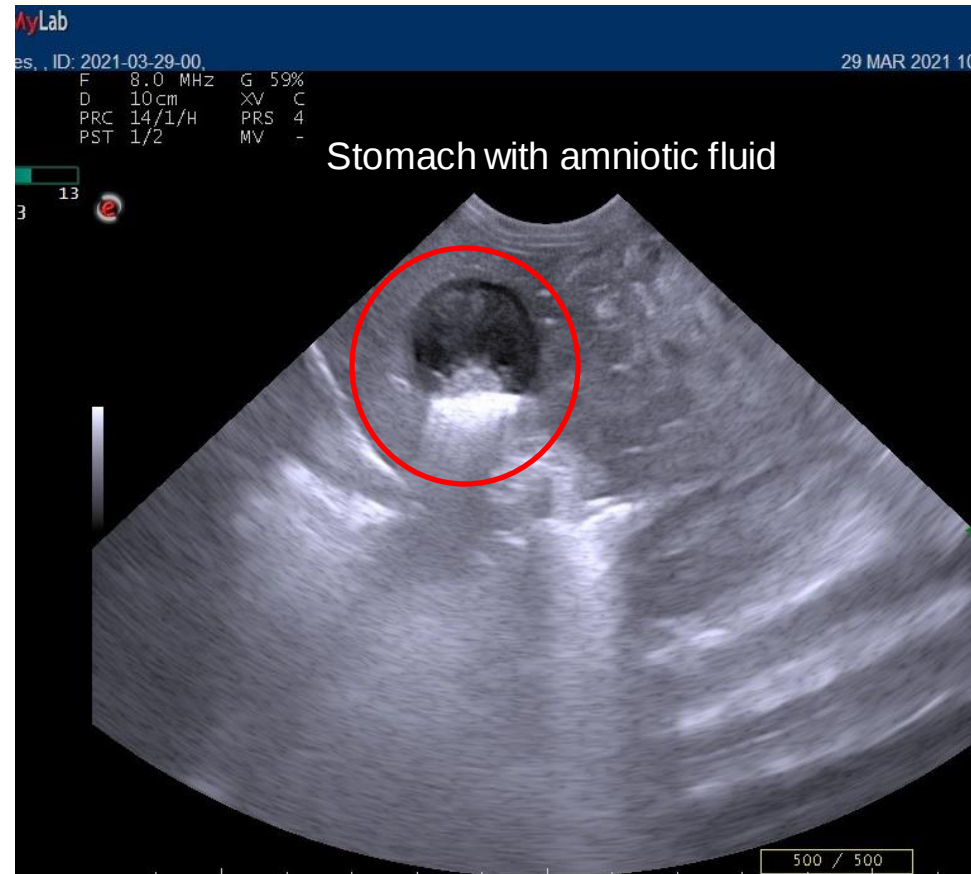
Should you hold the pig or should it be standing?
Is the pig relaxed or stretched/fixed?



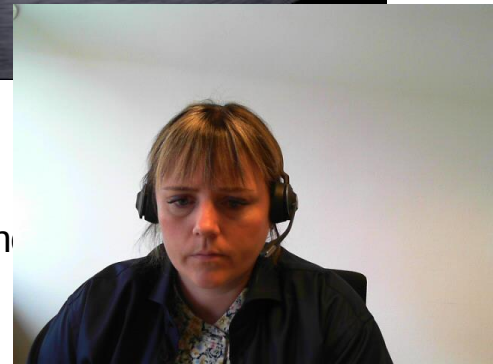
Newborn piglet with amniotic fluid in stomach (1.5 kg)



We can see a difference when we scan the stomach



Report n



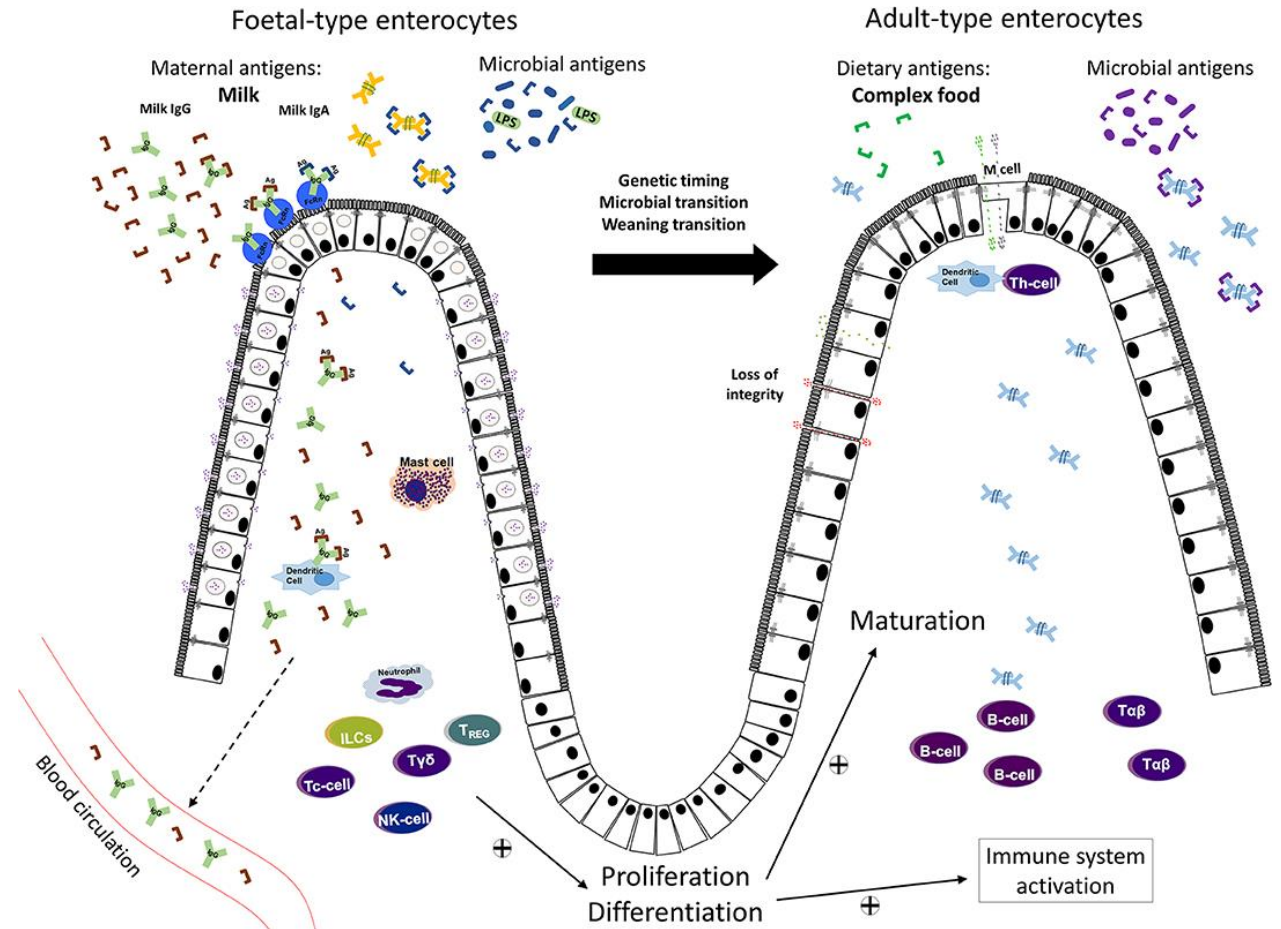
Can you feel milk in piglets' stomach?





Remember....

- The intestine of newborn pigs is newborn
- → suitable for degrading sow milk
- Lacks enzymes to digest other than:
 - Milk sugar
 - Milk fat
 - (Milk protein)



Picture from Weström et al., 2020

What is in..



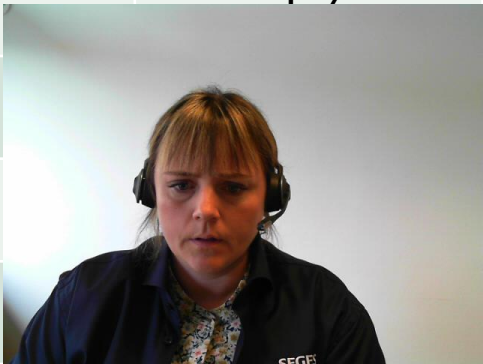
	Colostrum (0 hr)	Milk (day 7)	Colostrum (0 hr)	Milk (tank)	Mixed	Mixed
Water, %	73.3	80.7	72.4	87.7	86-87	87-90
Total protein, %	16.6	5.4	14.9	2.8	1.2	2.0
Fat, %	6.4	7.6	6.7	4.4	3.6	1.7
Lactose, %	2.8	5.2	2.5	4.0	7.3	
Energy, kJ/g	6.7	5.4			2.8	
IgG, mg/mL	64.4	2.0	47.6	0.59		



What is in..



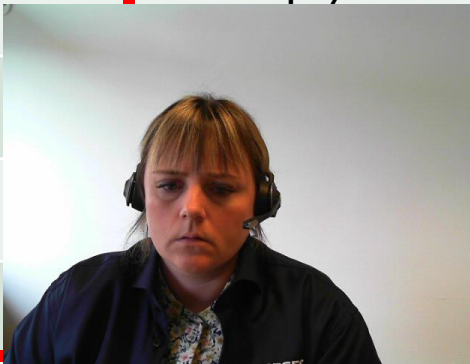
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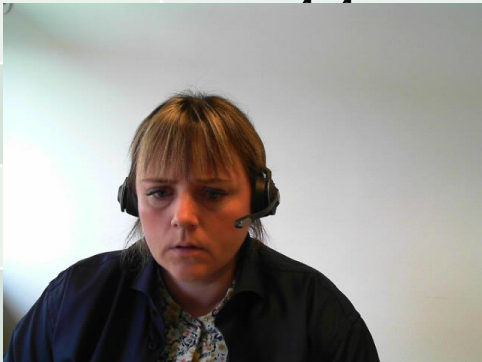
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List of priority



1: Sow colostrum



2: Sow milk



3: Colostrum from cows



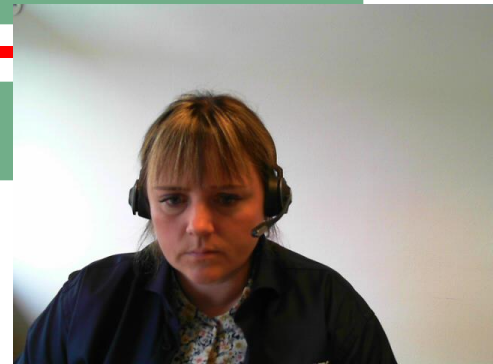
4: Regular cow milk and commercial products based on cow colostrum



5: Milk replacer and YoghurLac



6: Infant milk replacer and sugar products



Important facts about energy supplements

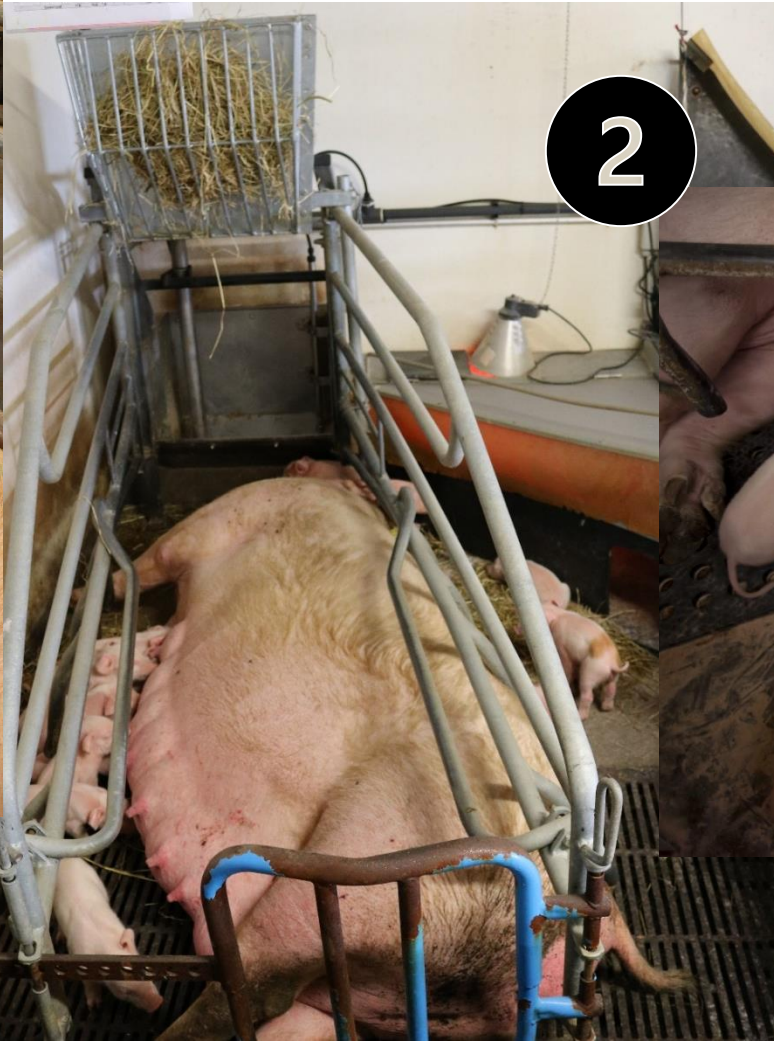
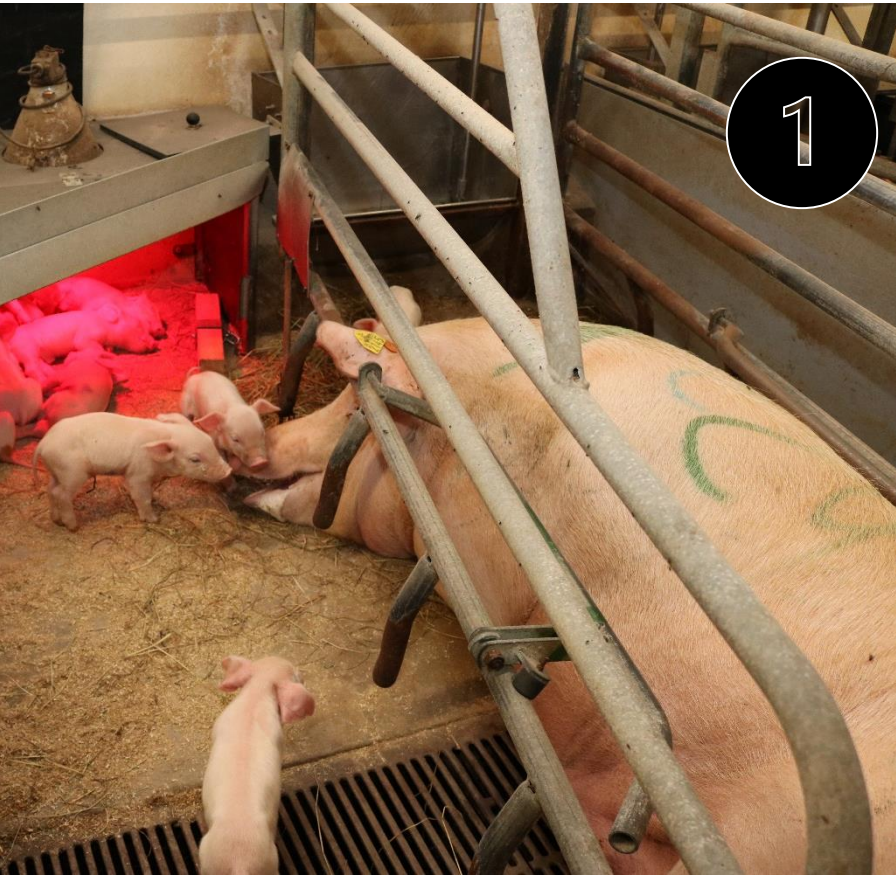
If you want to use energy supplements you must consider:

- Piglet age
- Product content and composition
- Amount and number of rations

Be aware and be careful



Lactation is a correlation between sow and piglets and milk is important for the survival of the piglets



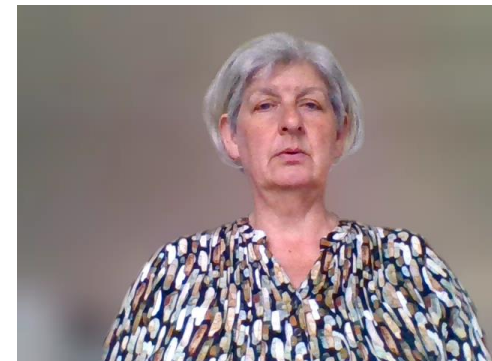


- A milk-laydown takes 10-20 sec
- After-massage stimulates milk yield in the next lactation
- Lactations every 50-60 minutes if the sow is not disturbed



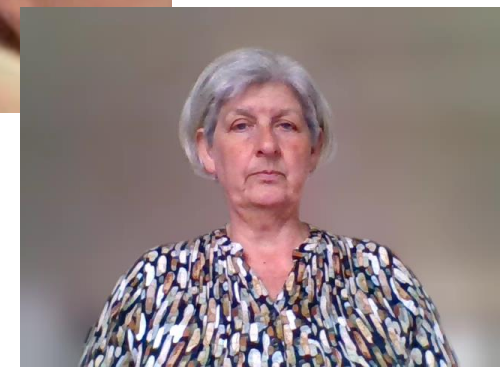
Litter equalization disturbs sows, but is necessary

- Be sure that the piglets have had some colostrum intake – approximately 8 hours old before litter equalization



How do you know when the piglets are more than 8 hours?

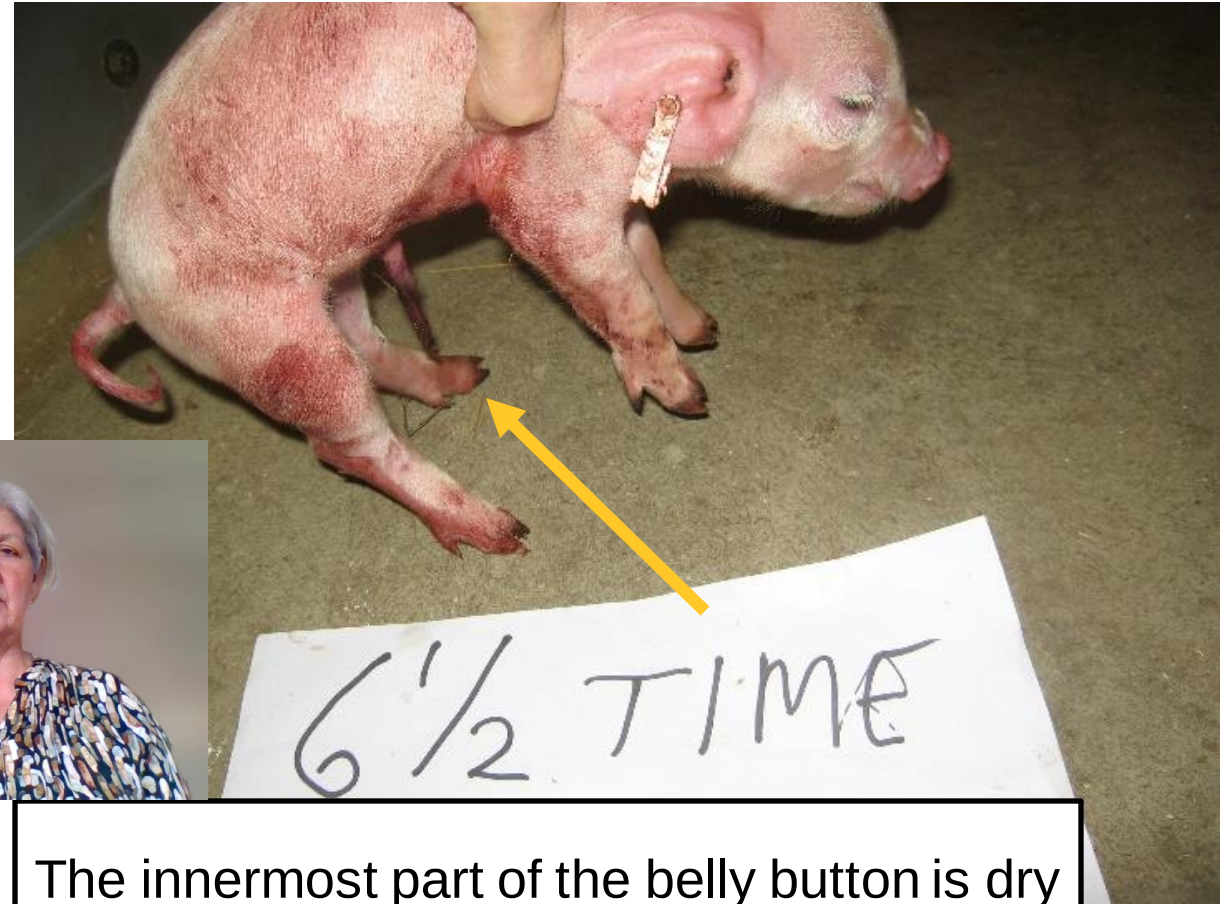
Mark the oldest piglet in the evening



How do you know when the piglets are more than 8 hours?



The belly button is thick and moist

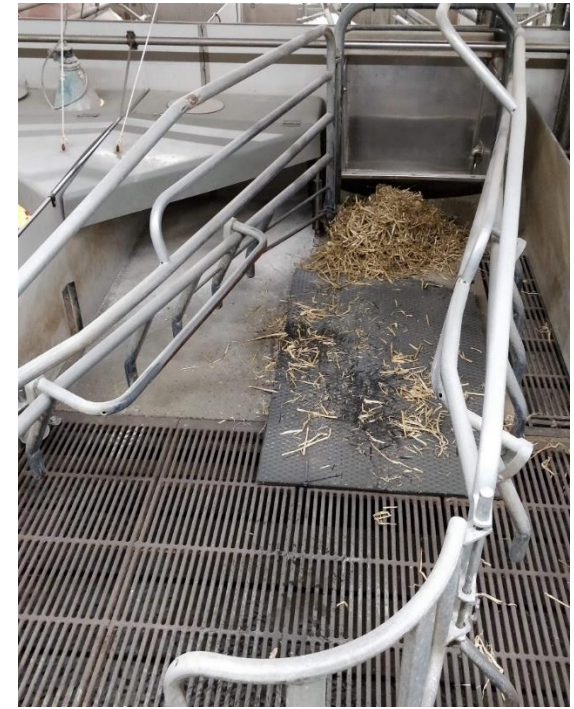


The innermost part of the belly button is dry

Count the teats – you already did that before farrowing



Litter equalization



3.

Find a sow with piglets older than 21 days and move the sow to 4-7-day old piglets

2.

Find a sow with piglets that are 4-7 days old and move the sow to the empty pens

1.

Prepare a few empty pens in the section before farrowing



Litter equalization



4.
Match the piglets to the
sow in the empty pen

Notice:
Small pigs to a small
udder



Do not move piglets after day 2

- New teat order --> lost milk letdown
- A piglet that was moved weighs 300-900 gram less at weaning
- Piglets in the new litter weigh 140 gram less at weaning



Questions?

The Piglet's Journey – from Farrowing to Weaning



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Take home message

1. Ensure heat for the piglet
2. Ensure colostrum to the piglet
3. Recommendations for litter equalization:
 - I. The age of the piglets + 8 hours old (colostrum)
 - II. Mark piglets during farrowing
 - III. Count the number of functional teats
 - IV. 1 piglet per teat
4. Udder, teat and piglets must match
5. Take the time you need → success

Next session: Hernia
August 24, 2022

