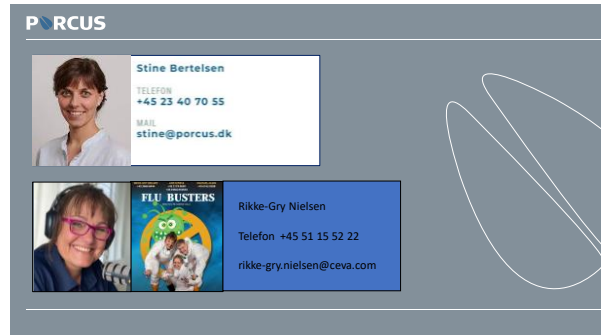
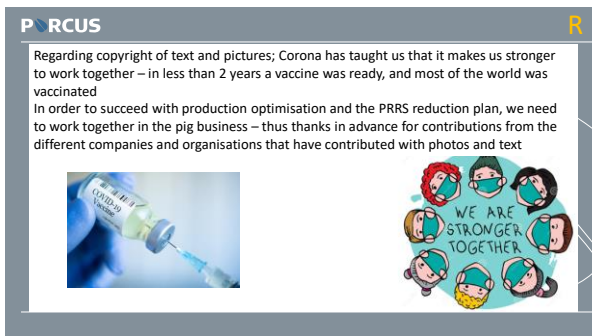


1



2



3

Corona restrictions



4

Farm restrictions



5

Farm restrictions

Wash hands, change clothes



Focus on washing, disinfection, drying out

Group management



Ventilation

"Bubble-thinking": All in/all out, avoid all unnecessary movement of pigs

6


Why

Between farms (and countries!)

- ASF
- PRRS
- Influenza
- AP
- MRSA
- ...

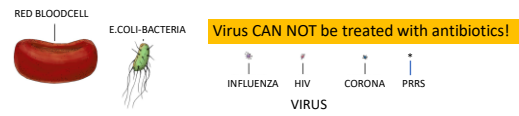
Farmlevel

- PRRS
- Influenza
- PCV
- AP
- Cytomegalovirus
- ...



7

The difference between virus and bacteria



8

External biosecurity/protection

- All farms



9

External biosecurity

- All farms

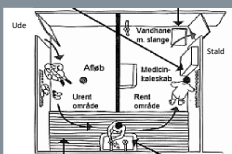


10


External biosecurity

- All farms

SPF – between farms



Frontroom – between farms



11

Frontrooms must be

- Clean
- Tidy
- Have; clean elevated area for socks
- Washing place with soap and ethanol



What carries infection

12

PORCUS

What does it really mean..?

"Management Changes to Reduce Exposure to Bacteria to Eliminate Losses from PRRS"

- or in short as **McREBEL**



13

PORCUS

McRebel =
Internal
biosecurity/protection

Tight McRebel at eradication

Not so tight in normal farms
- BUT BE CAREFUL!

The 10 Golden Rules

McRebel

1. Ved kuldudlæmning flyt kun de overskydende grise og flyt mindst muligt rundt på grise
2. Der må ikke laves annesser efter 48 timer!
3. Flytning af grise mellem kuld i farvestald skal minimeres
4. Skift kanyl mellem hvert kuld
5. Skift kanyl mellem hvert kuld
6. Skift kanyl mellem hvert kuld
7. Skift kanyl mellem hvert kuld
8. Skift kanyl mellem hvert kuld
9. Skift kanyl mellem hvert kuld
10. Skift kanyl mellem hvert kuld

Tak til BI for lån af fotos

14

The 10 Golden Rules McRebel

1. Ved kuldudlæmning flyt kun de overskydende grise og flyt mindst muligt rundt på grise
When cross-fostering, move only the surplus and minimize moving of piglets
При перекрестном вскармливании поросят следует перемещать только в случае их неравномерного распределения, при этом их следует перемещать как можно меньше
2. Der må ikke laves annesser efter 48 timer!
No cross-fostering later than 48 hours!
Не следует проводить перекрестное вскармливание позднее чем через 48 часов!
3. Flytning af grise mellem kuld i farvestald skal minimeres
The movement of pigs between litters in the farrowing house must be minimized
Перемещение поросят в родильном отделении между командами должно быть минимальным

Tak til BI for lån af fotos

15

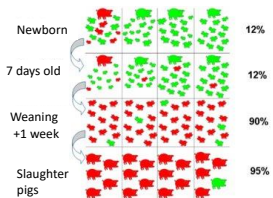


Tak til BI for lån af fotos

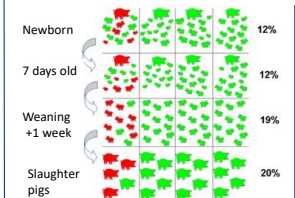
16

PORCUS

MIXING of pigs **increases** risk of infection a lot



TEAM MOVEMENT of pigs **lowers** risk of infection



17

4.

Skift kanyl mellem hvert kuld
Change needles between litters
Помните использовать новые иглы для каждой новой команды в родильном отделении

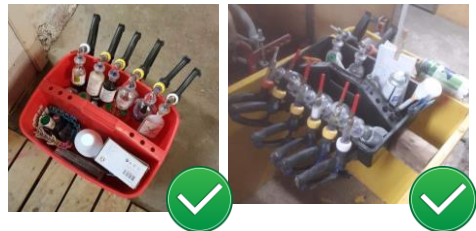


18



19

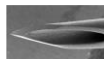
PORCUS



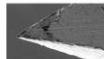
20

PORCUS

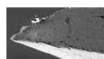
New needle, never used



Needle used one time



Needle used 2 times



Needle used 12 times



Tak til MSD for lån af fotos

21

PORCUS

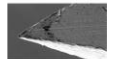


1 needle/1 team!

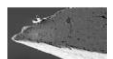
New needle, never used



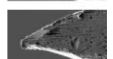
Needle used one time



Needle used 2 times



Needle used 12 times



Tak til MSD for lån af fotos

22

PORCUS

How much infection is needed

Infection way	Number virus/bacteria
Through mouth	100.000
Through nose	10.000
Through cut in skin	10

23

Frit efter Jeff Zimmermann, BI

23



24



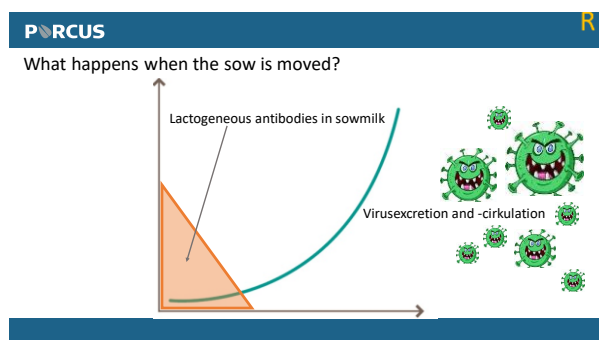
25



26



27



28



29



30

PORCUS Don't be afraid of weaning the smallest pigs

- Small pigs, **weaned with own weekgroup of sows** to special optimized pens, had **same weight** and growth 7 weeks later, as small pigs staying **1 week extra at an opsamlings/collection/ammesow**
- Recommendations are, to **wean all pigs in same agegroup**, and make **15% optimized pens** in all weaning rooms
- Weaning of all pigs at once gave better economy, as **1 pig space in weaningrooms is less expensive/cheaper as 1 pig space in farrowingsection**
- Price of keeping **small pigs 1 week at an ammesow** is **double** the price as when using **optimized pens**



(Kilde: Seges-Meddelelse_1175)

31

PORCUS Don't be afraid of weaning the smallest pigs

- Small pigs are **NOT** more at risk of diarrhea than bigger pigs
- There was significantly **less diarrhea treatments at the small pigs (5,8 kg)**, compared to medium (6,6 kg), and big pigs (7,6 kg)



(Kilde: Seges Meddelelse_1019)

32

PORCUS

R



Tak til BI for lån af foto

33

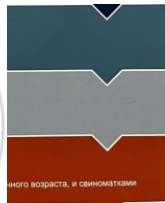
7. Strikt holddrift (alt ind/alt ud)
Strict batch production (alt ind/alt ud)
Четкость производственного процесса (система «пусто-занято»)

8. Ingen kontakt mellem forskellige aldersgrupper
No contact between age groups
Не должно быть контакта между разными возрастными группами

9. Ingen kontakt mellem grise fra fravænning til 6 måneder og søer
No contact between piglets (weaned up to 6 months of age) and sows
Не должно быть контакта между поросятами, отлученными от вымени и до 6-месячного возраста, и свиноматками

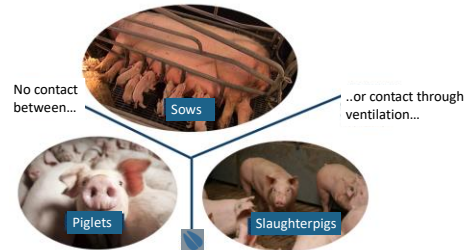
34

7. Strikt hold
Strict batch
Четкость
8. Ingen kont
No contact
Не должн
9. Ingen kont
No contact
Не должн



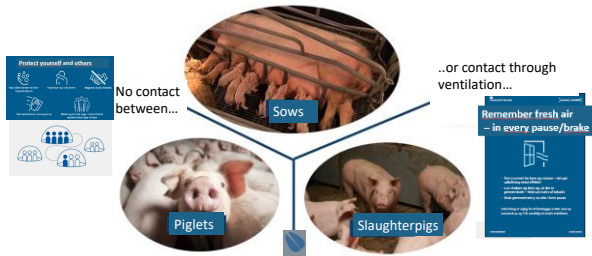
35

PORCUS



36

PORCUS



37

PORCUS

Avoid mixing of pigs between pens/boxes = different agegroups



38

10.

Poite skal altid indføres via karantæne. Det gælder også egne poite
Always introduce incoming gilts via quarantine, also home produced gilts
Поступающих молодых свинок всегда сначала следует подвергать карантину, даже молодых свинок домашнего производства



Quarantine room/karantænestald

- *Must be in separate building
- *Separate entrance for people
- *Check last every day
- *Separate ventilation and gylle/manure system
- *Wash and disinfect after every group

39

10.

Poite skal altid indføres via karantæne. Det gælder også egne poite
Always introduce incoming gilts via quarantine, also home produced gilts
Поступающих молодых свинок всегда сначала следует подвергать карантину, даже молодых свинок домашнего производства



Quarantine room/karantænestald

- *Must be in separate building
- *Separate entrance for people
- *Check last every day
- *Separate ventilation and gylle/manure system
- *Wash and disinfect after every group

40

PORCUS

Vaccination to

- Stabilize herd/farm
- Lower infection pressure
- Control disease
- Remove disease/erradication



Examples: Parvo, PRRS, influenza, PCV, Coli, Lawsonia, Rotavirus...

41

PORCUS

All farmworkers and -visitors should be vaccinated against influenza



- and stay home if sick



You can infect pigs with influenza!!

42

PORCUS

Remember also

HYGIENE in GENERAL

- Let the Corona restrictions guide us

43

PORCUS

Hygiene around the pigs



Always have a clean and dry wagon ready for next day

Use plastic slates, which are more clean than sawdust/savsmuld/easystør

44

PORCUS

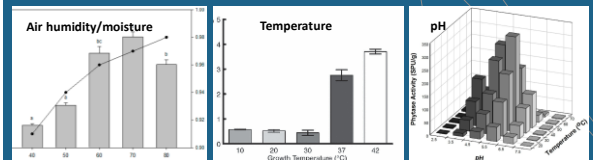
REMEMBER
CLEANING THIS –
or you mix
agegroups this
way!



45

PORCUS

Why is washing+desinfection+drying out so important?



(kilde: Ecol optimization: Kyle Mulveney et al, 2009)

46

PORCUS

Protect the stable and pigs



Vask dine hænder tit eller brug håndsprit



Host eller nys i dit ærme



Begræns fysisk kontakt



Vær opmærksom på rengøring



Ældre og kronisk syge - hold afstand og bed andre tage hensyn

47

PORCUS

Thank you for
your attention!

Questions?

48