



Prewaning piglet mortality in SWAP farrowing pens

J. Hales¹, V.A. Moustsen², M.F.N. Nielsen² and C.F. Hansen¹

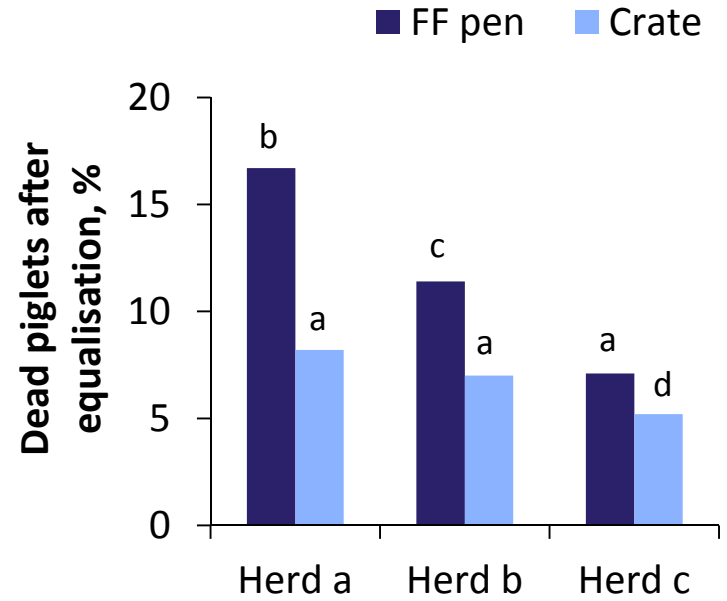
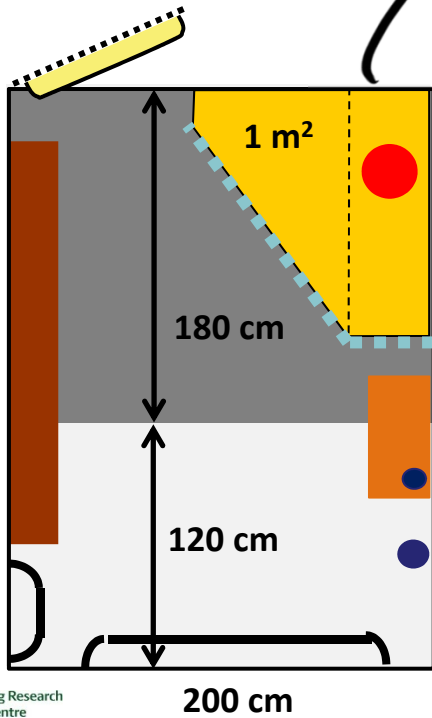
¹Department of Large Animal Science, Faculty of Health Sciences, University of Copenhagen

²Danish Pig Research Centre, Danish Agriculture & Food Council



FF pen

FF = Free Farrowing



Background

Loose housed sows is a challenge

- Temporary crating for 4 days can reduce mortality (*Moustsen et al. 2013*)

New approach

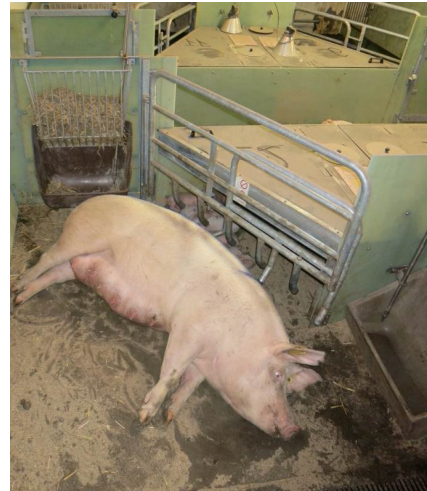
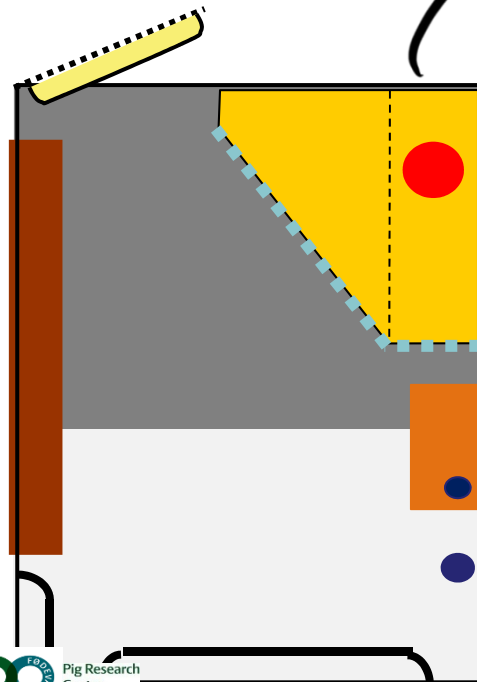
- Think from loose to crate
- Only crating when needed
- SWAP farrowing pen

(**S**ow **W**elfare **A**nd **P**iglet protection/**S**tart **W**ith **A** Pen)



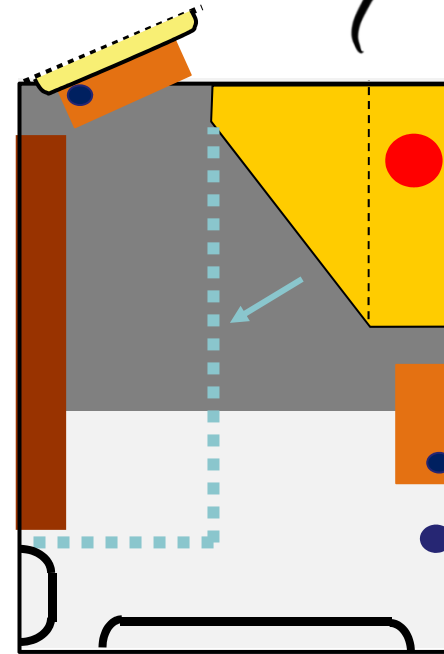
FF pen

FF = Free Farrowing

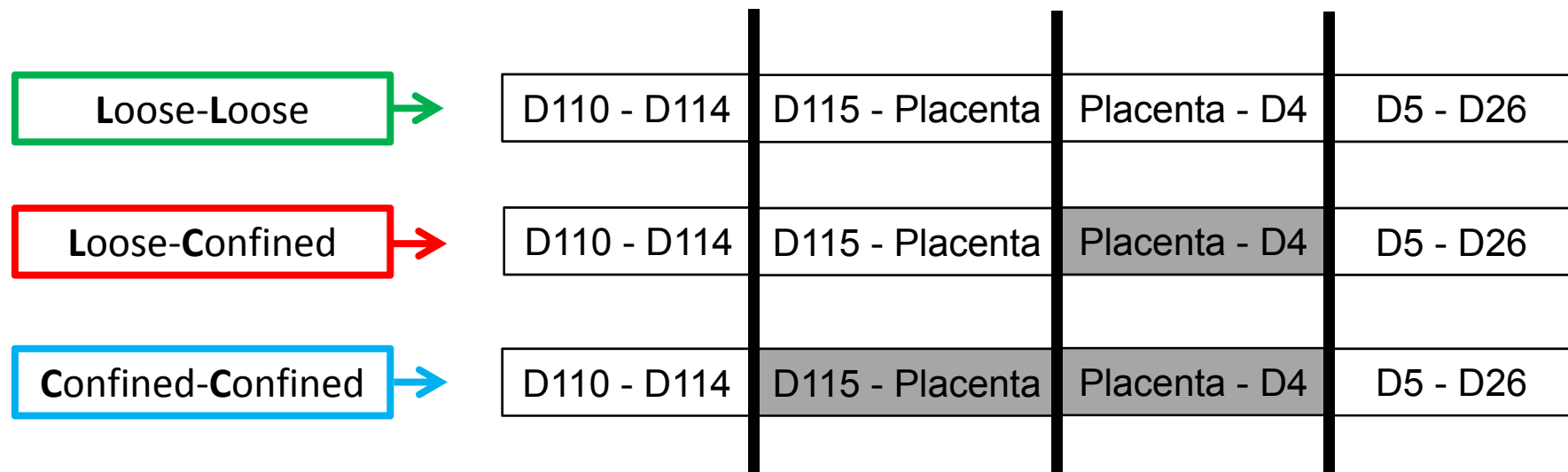


SWAP pen

SWAP = Sow Welfare And Piglet protection



Three treatments



White = sow is **loose**

Grey = sow is **confined**



Experiment

1,200 sow production herd
Danish Landrace x Yorkshire sows

App. 650 sows/group

2nd and 3rd parity sows returned to same system

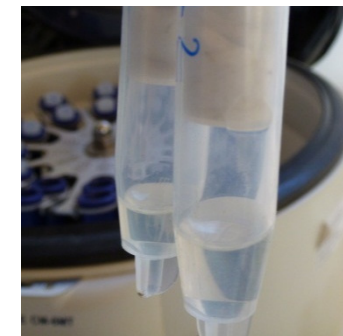
Piglet registrations

Liveborn and stillborn

Equalised litter size

Dead piglets

(Post mortem examinations)



Results - HERD records

PRELIMINARY

	LL	LC	CC	P-value
Sows, no.	675	665	641	
Total born, no.	17.7 ± 0.12	18.0 ± 0.12	17.9 ± 0.13	0.121
Liveborn, no.	16.2 ± 0.12 ^a	16.7 ± 0.12 ^b	16.7 ± 0.12 ^b	0.007
<i>Stillborn</i> , pct. of total born	8.0 ^a (7.3-8.8)	7.4 ^{a,b} (6.7-8.2)	6.7 ^b (6.1-7.4)	0.015

Means ± se
Mean (95 % CI)



Results – herd records **PRELIMINARY**

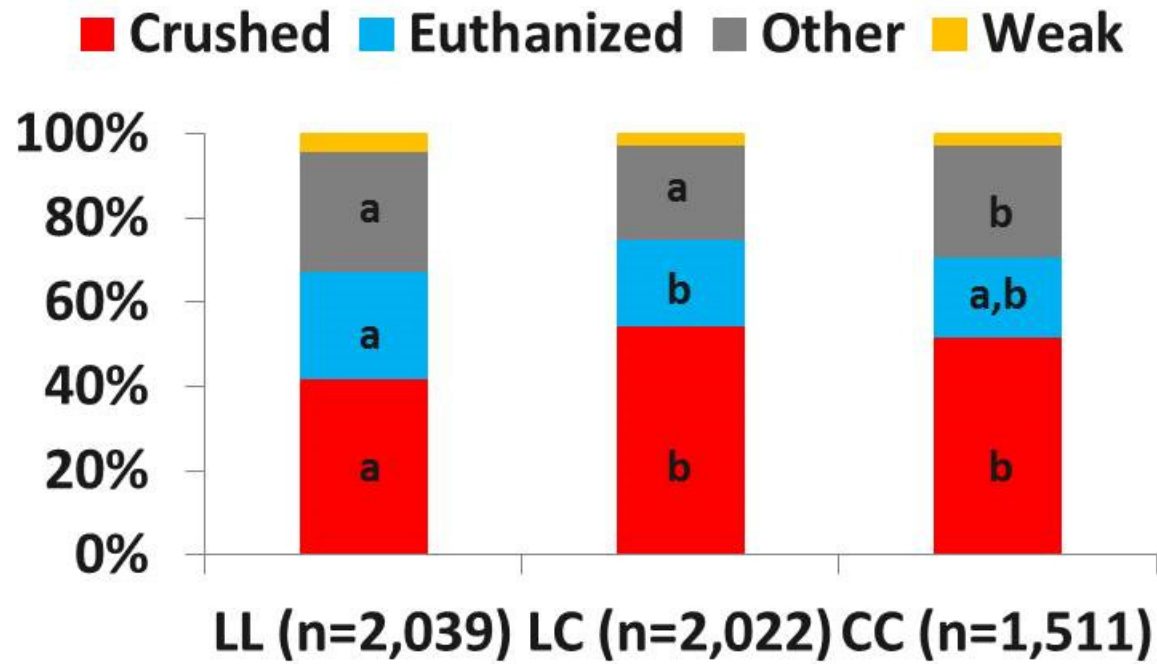
	LL	LC	CC	P-value
Dead before litter equalisation, pct. of total born	13.0 ^a (12.1-14.1)	12.3 ^a (11.3-13.4)	8.9 ^b (8.2-9.7)	0.0001
Dead litter equalisation-day 4, pct. of equalised litter size	7.8 ^a (7.1-8.6)	7.0 ^b (6.3-7.0)	5.8 ^c (5.1-6.4)	0.002
Dead after day 4, pct. of equalised litter size	4.7 (4.2-5.2)	5.2 (4.5-5.9)	5.0 (4.4-5.6)	0.498

Mean (95 % CI)



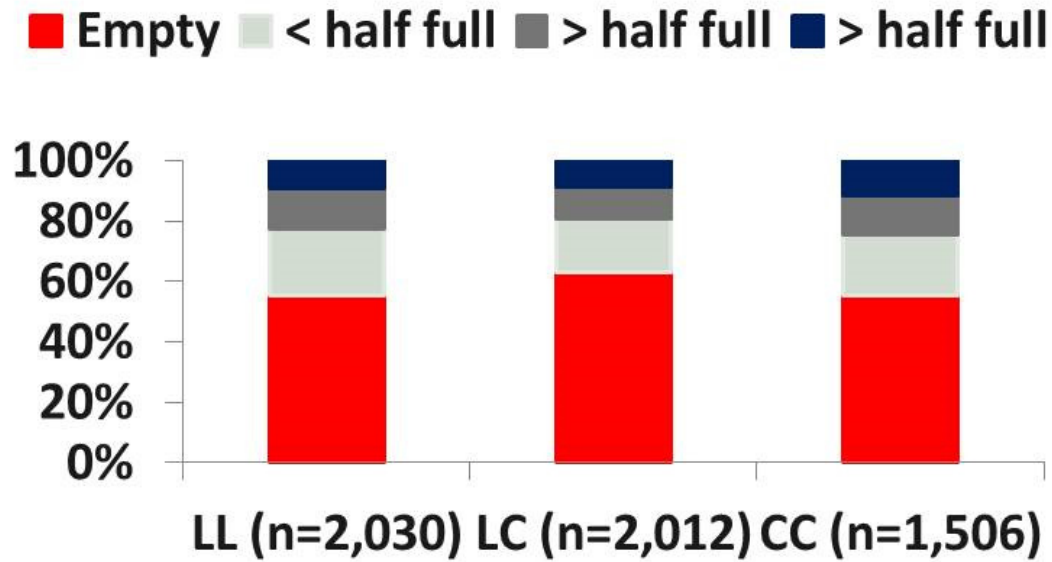
Mortality - cause

PRELIMINARY



Mortality – stomach content

PRELIMINARY



Conclusion

Confinement in SWAP before farrowing:

- reduced piglet mortality before equalisation
- reduced piglet mortality from equalisation to day 4



Thank you for your attention!!!

