

25
Years

for
farmers
the **total** feed business



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Monday, 17 August 2015

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The science of the colostrum score of 10,000 piglets

Where to focus to improve your colostrum management?

Thursday, June 4th 2015

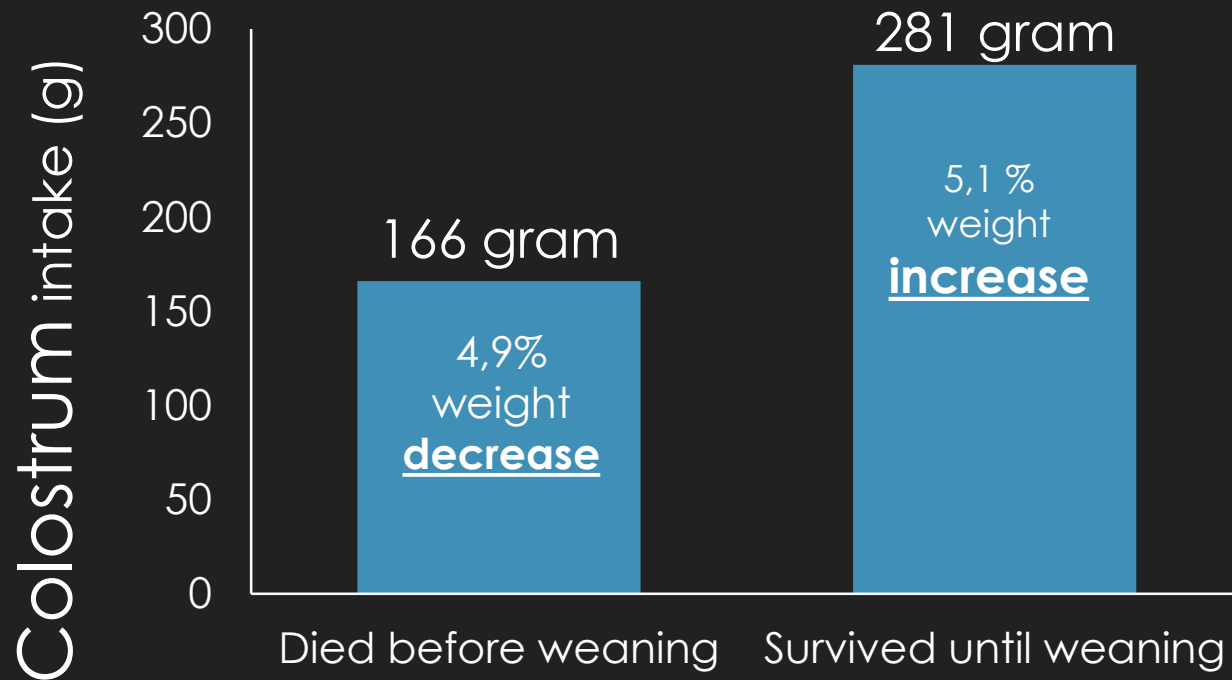
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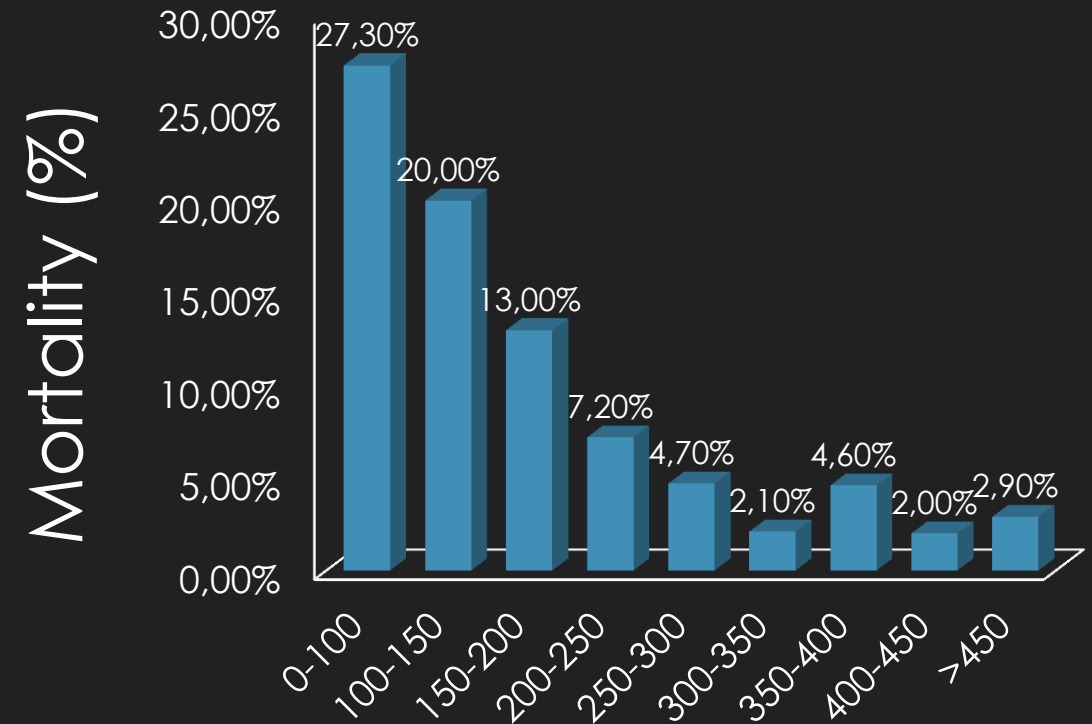
The science of the colostrum score of 10,000 piglets

- Importance of colostrum
- How to measure colostrum
- Colostrum score of over 10,000 piglets
- Feed composition around farrowing
- Summary

Importance Colostrum



R.Jansen et al. ESPHM Nantes 2015



Colostrum intake

Ferrari et al. 2014

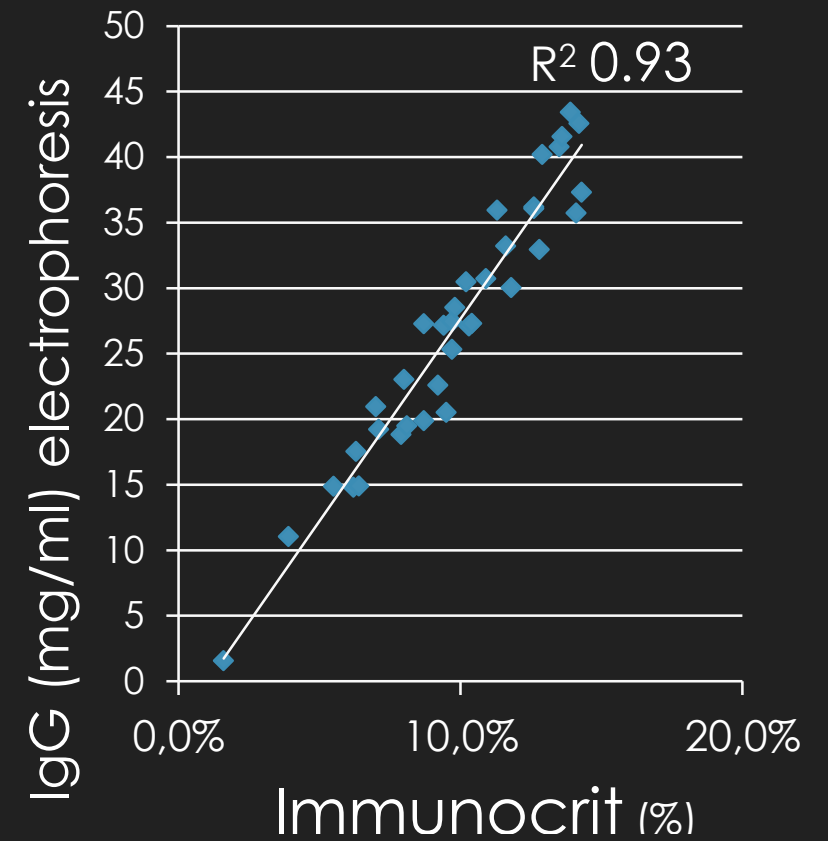
Measure colostrum uptake



- Weighing
 - At birth and after 24 h
 - Labor intensive!
- Alternatives
 - Measuring antibodies (IgG)
 - Cheap
 - Reliable
 - Correlation with productivity
 - Growth
 - Mortality



Measuring IgG



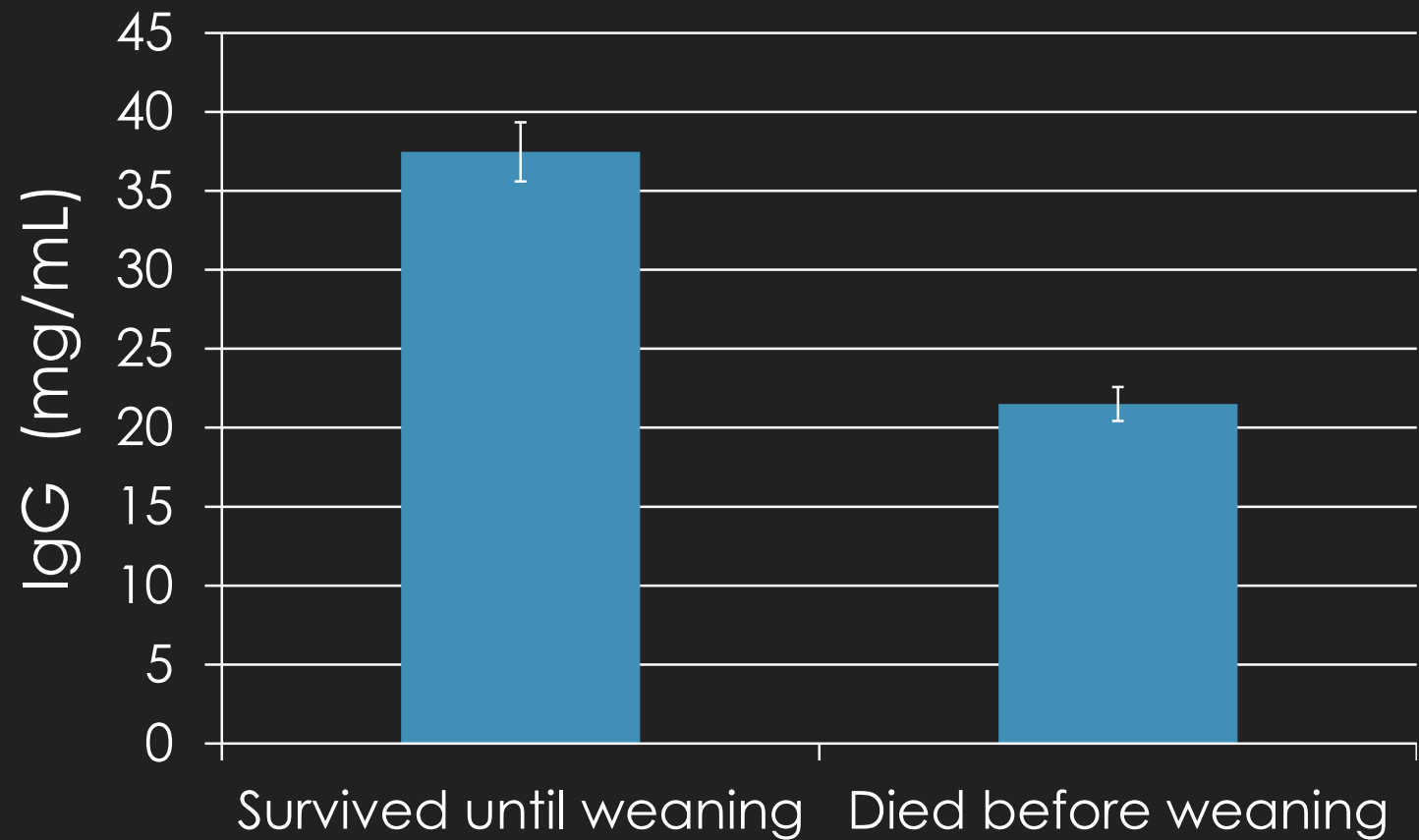
IgG & Mortality



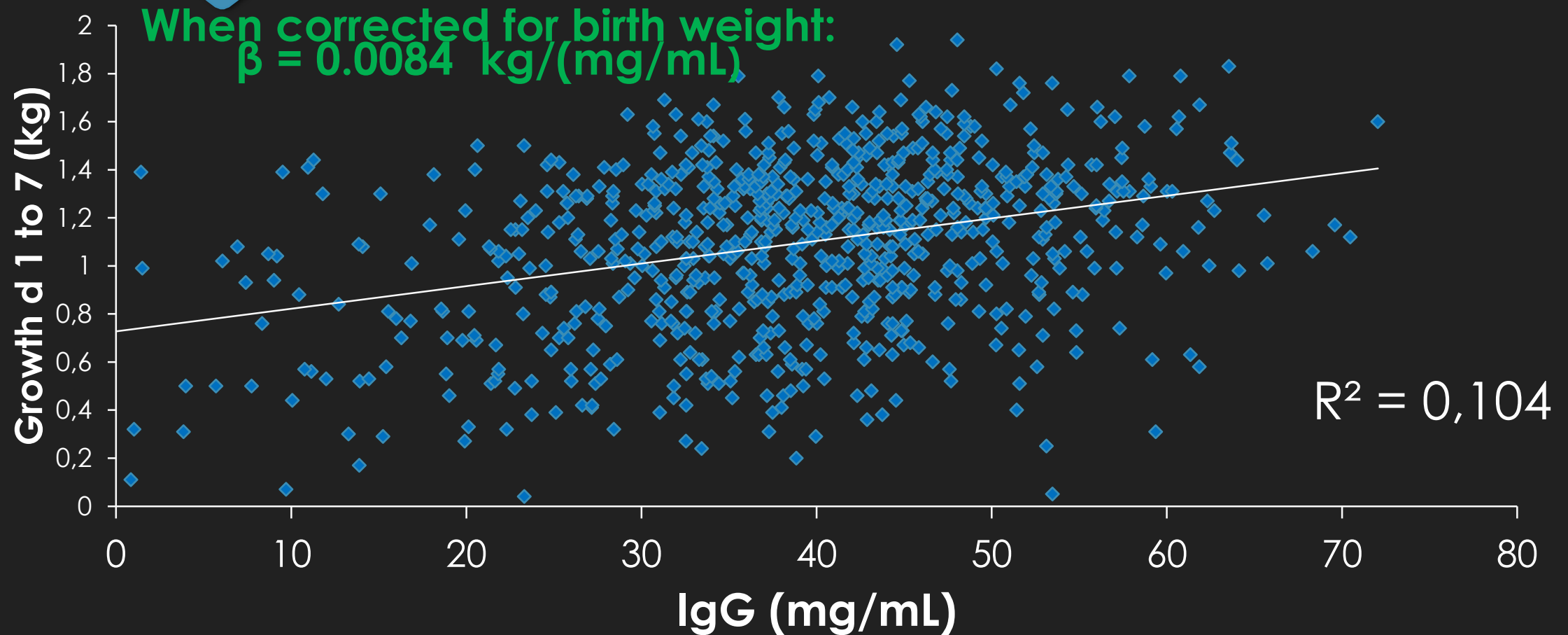
70 litters

Piglets bled day 2-3

Over 950 piglets



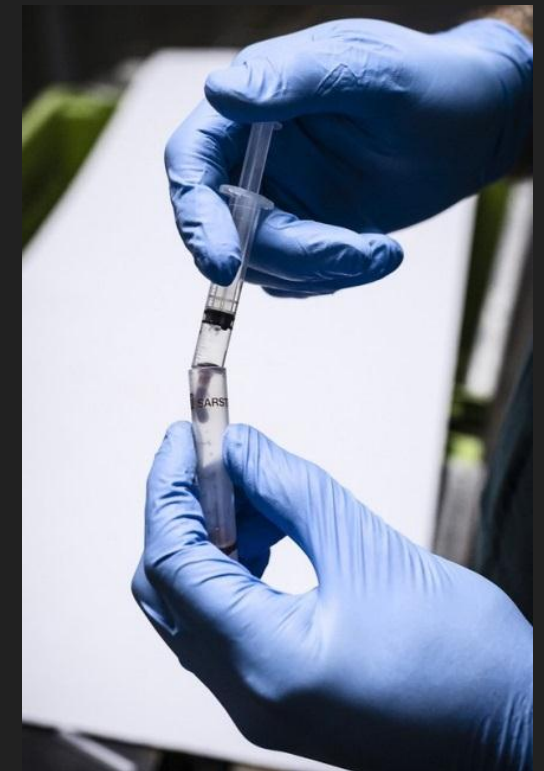
Growth is related to IgG



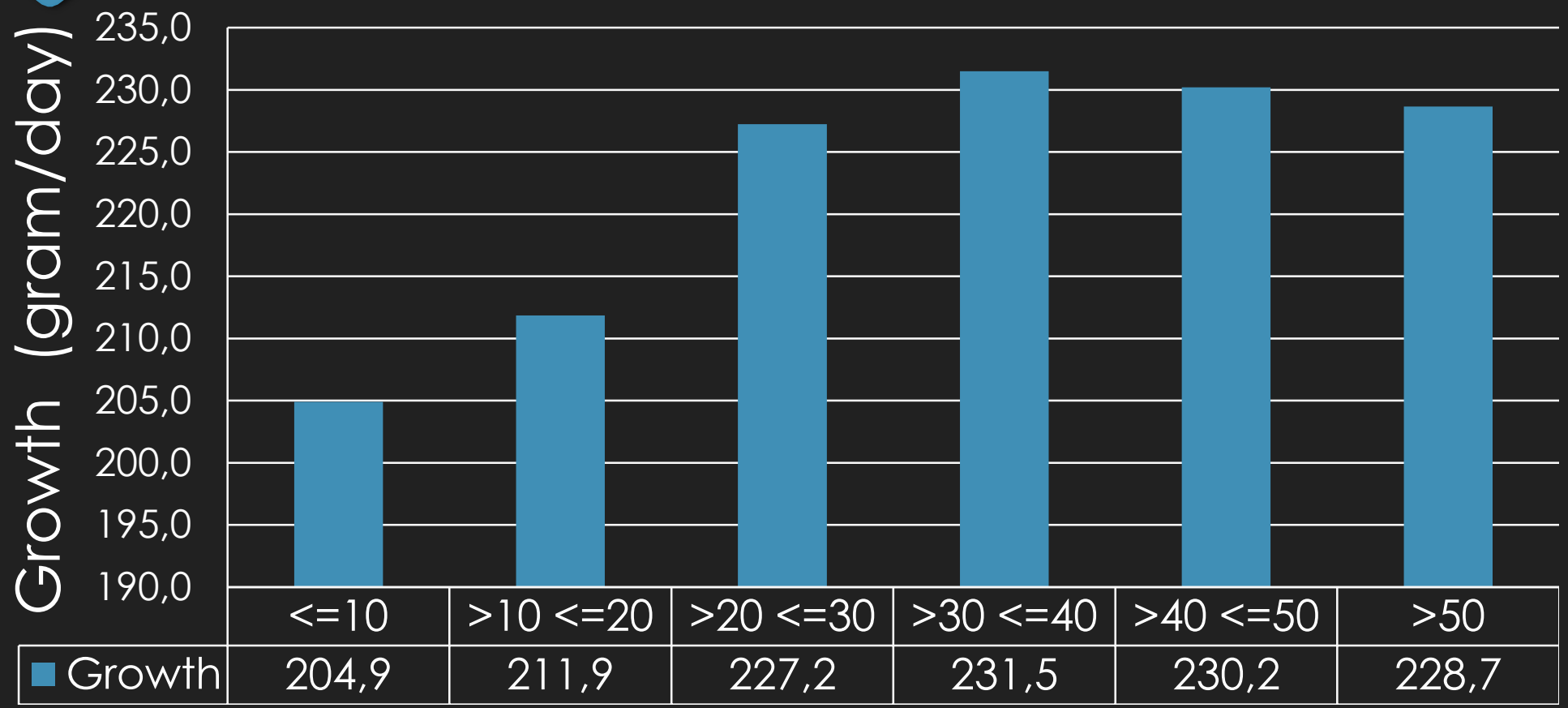
The colostrum score



- Total 36 piglets
 - 6 litters
 - 6 piglets each litter
 - 2 * Light
 - 2 * Middle
 - 2 * Heavy
 - Followed until weaning
 - 2012-2015
- Over 10.000 piglets
 - Netherlands
 - Belgium
 - Germany



IgG & Growth - weaning



<1,100 gram stay behind



○ 20% **Low birth weight** pigs*

○ <1.100 kg (av 0.930 kg)

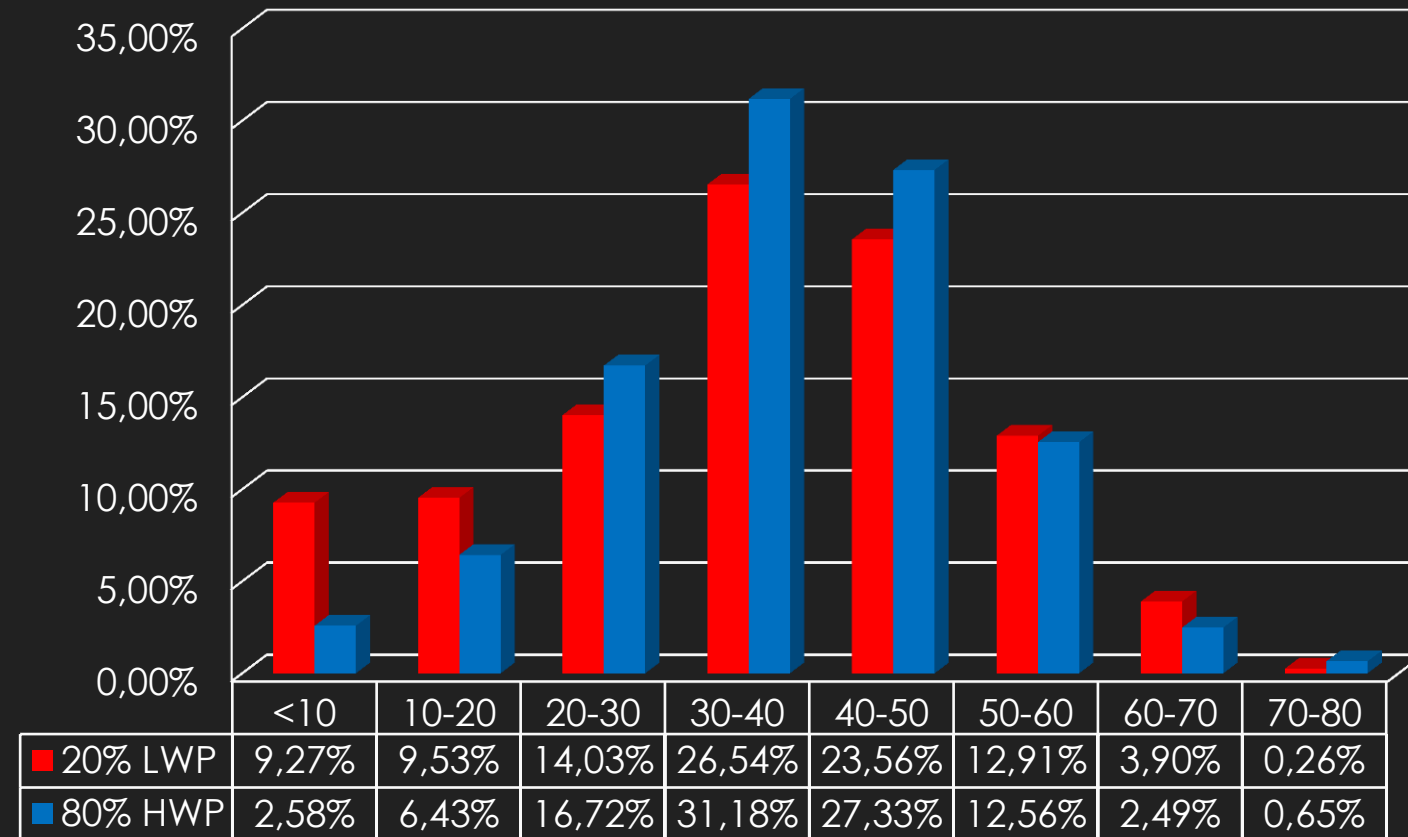
○ 80% **Heavy pigs***

○ >1.100 kg (av 1,621)

○ <10 mg/ml OR 3.85 (P<0.005)

○ <20 mg/ml OR 2.33 (p<0.005)

* Weight at blood sampling

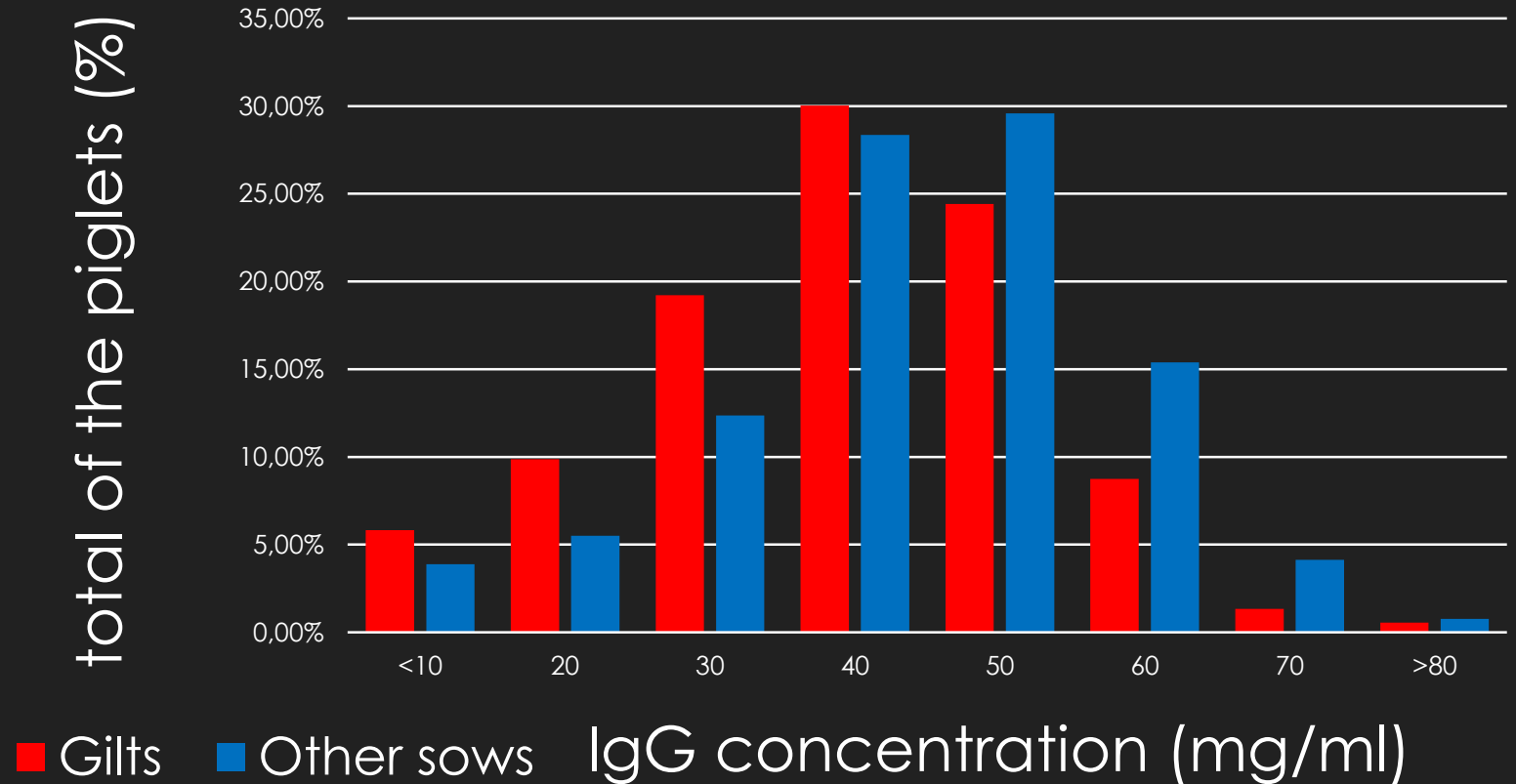


Gilts' stay behind



Gilts 34.3 mg/ml

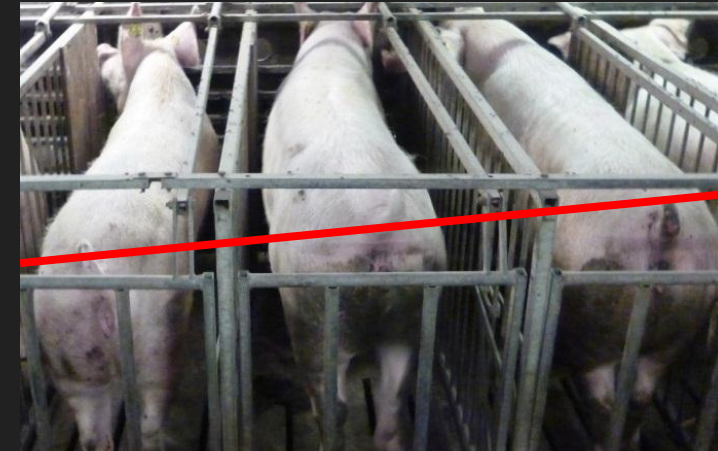
Parity 2+ 38,0 mg/ml



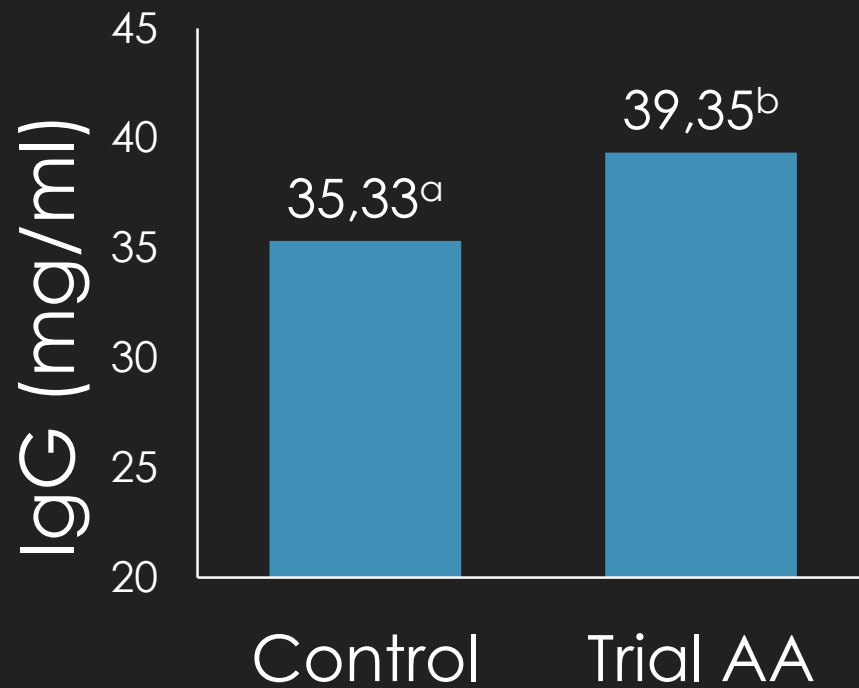
Role of feed



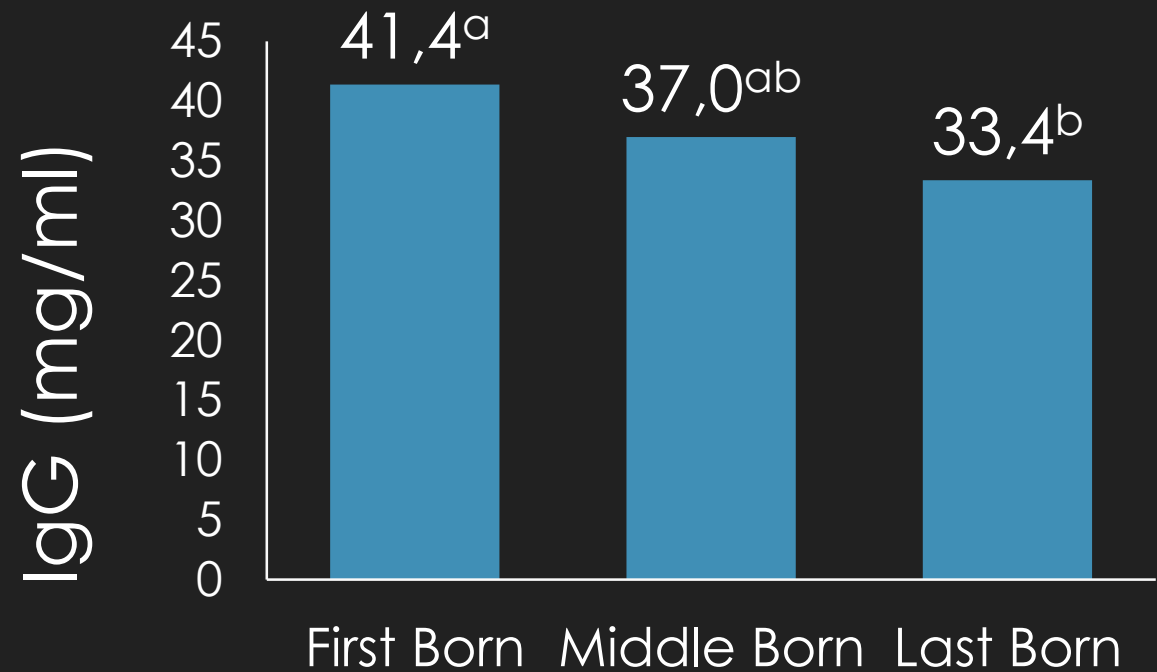
- Bodycondition of the sow
- Prevent obstipation
 - Fibre
- Enough energy during farrowing
- Available calcium
 - Reduces birth intervention
 - Reduces Post partum antibiotic treatment
- Special Transit diet
 - Gestation -> Lactation



Feed around farrowing



R.Jansen et al. ESPHM Nantes 2015



R.Jansen et al. ESPHM Nantes 2015

Summary ⇒ focus on:



- Offspring of gilts
- Low birth weight piglets (<1.100 kg)
- Check the farrowing practices with the colostrum score
- Transitional diets for a vital sow around farrowing
 - Quick farrowing process: 15 min per piglet
 - Less work, better piglets, lower still birth, healthier sows
- Obstipation must be avoided
- Monitor and evaluate the body condition of sows