Hatchery Talks Post-hatch feeding in relation to antibiotic reduction



Antibiotic reduction

Post-hatch feeding



 Post-hatch feeding refers to the availability of feed, water and light for day-old chicks from the moment of hatching



Benefits



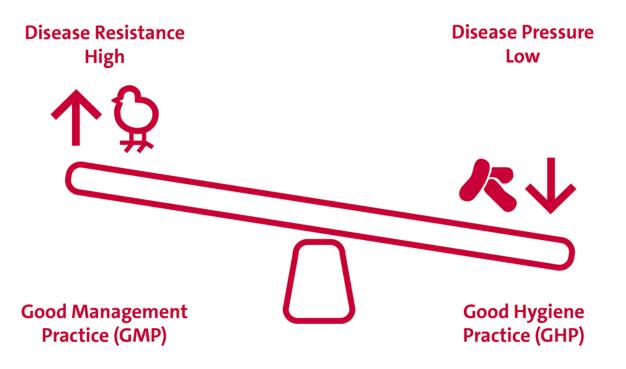
Post-hatch feeding promotes the development of robust day-old chicks and helps to reduce the need for antibiotics



Field performance

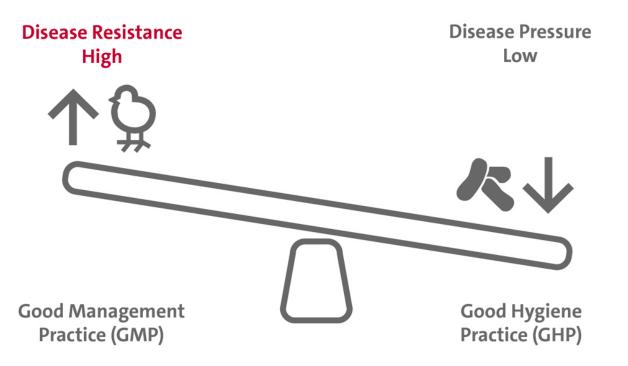


Antibiotic reduction



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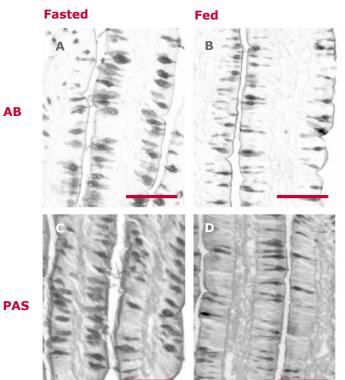
Antibiotic reduction



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Intestinal development

- Intestinal development after hatch is stimulated by the presence of feed
- Delayed feed access (48h) leads to less developed villi



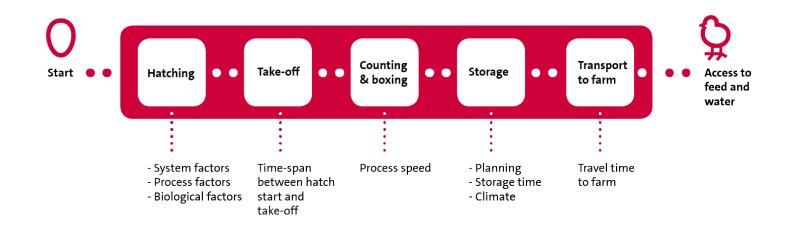
(Uni and Sklan 2003)

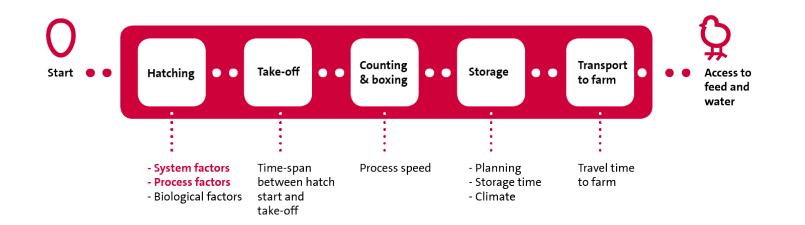
Immunity

- GALT (Gut Associated Lymphoid Tissue) represents 70% of the immune system
- Rapid development GALT, earlier
 immune maturation (Friedman et al., 2003)
- Delayed feeding reduces GALT activity first 2 weeks of life (Bar-Shira et al., 2005)

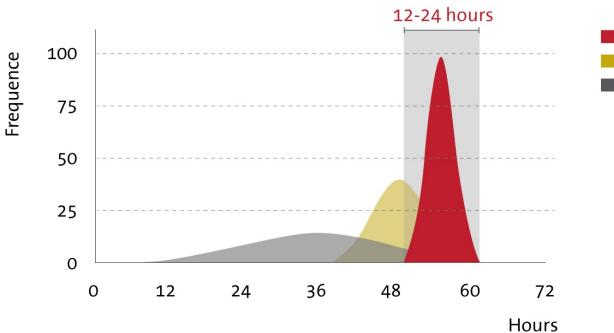
Response to challenge

- Higher BW and FI after coccidiosis vaccine challenge at 14 days (72h FD) (Dibner et al., 1998)
- Reduced clinical signs, better performance after non-infectious lung challenge at 4 weeks (72h FD) (Simon et al., 2015)

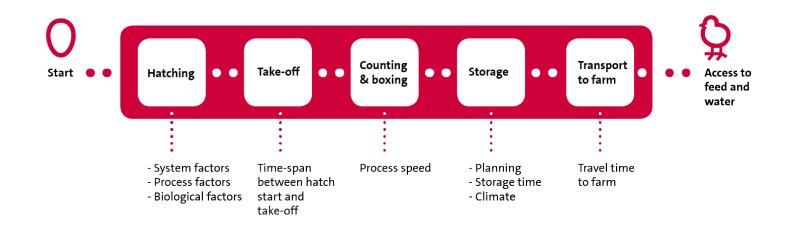


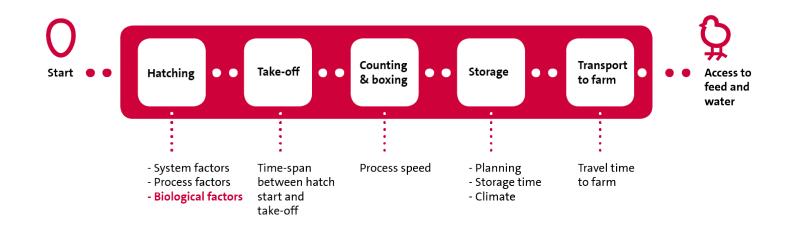


Hatch window

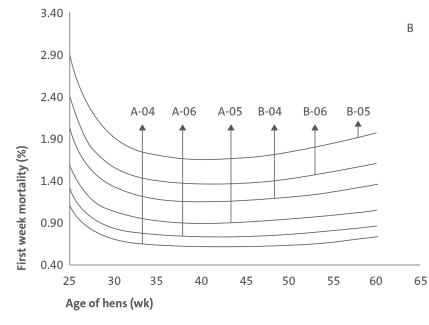


Modular Single-stage
 Single-stage
 Multi-stage

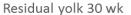


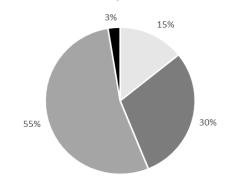


Breeder age

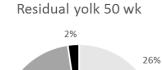


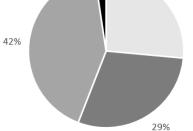
(Yassin et al., 2012)



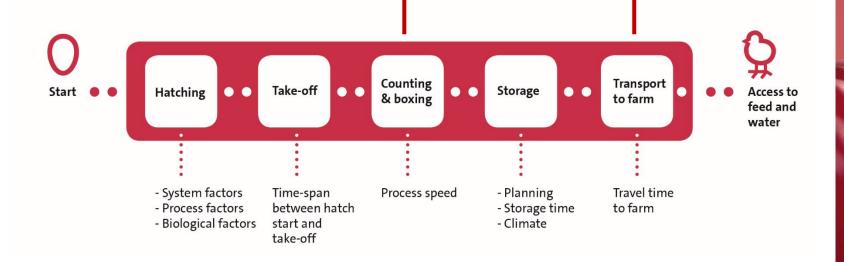


■ Fat ■ Protein ■ Water ■ Other ■ COH





■ Fat ■ Protein ■ Water ■ Other ■ COH



Process and transportation

- Chicks are in transition phase from poikilotherm to homeotherm
- Chicks are not able to regulate own body temperature
- Feed intake improves thermoregulation (van den Brand et al., 2010)
- Chicks are better able to resist cold stress

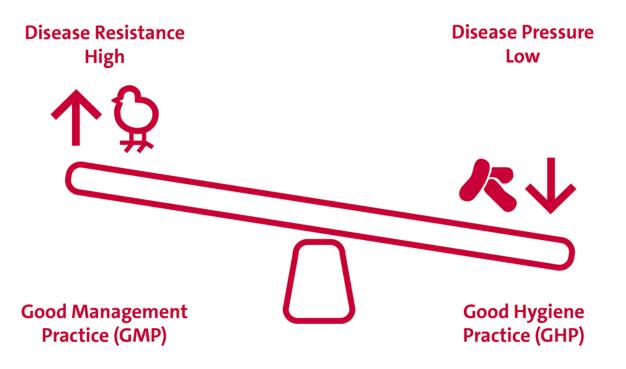


- Significant reduction 7-day mortality
- Highest reduction in chicks from young breeders
- Overall improved feed conversion ratio
- Chicks are quiet and relaxed in hatcher, processing and arrival farm

Post-hatch feeding in relation to antibiotic reduction Summary



Antibiotic reduction





Hatchery Talks

Thanks for watching!

Knowledge section at our website

See you at our next webinar!

