BRINGING PIGLETS TO A **HIGHER LEVEL**

FORCERIS™

➤ *A single action for a healthy start*

ceva

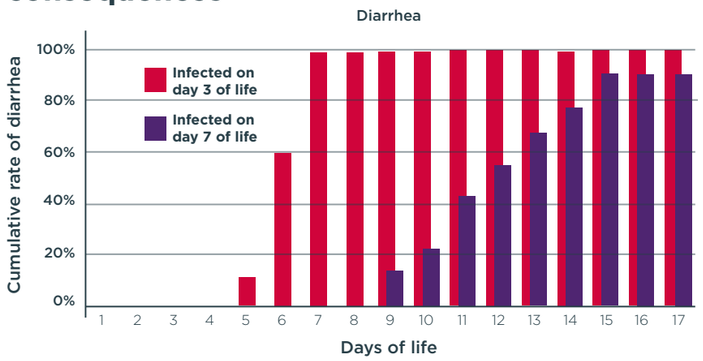
COCCIDIOSIS

One of the most costly diseases in swine production[1]

Oocyst excretion and its role in epidemiology

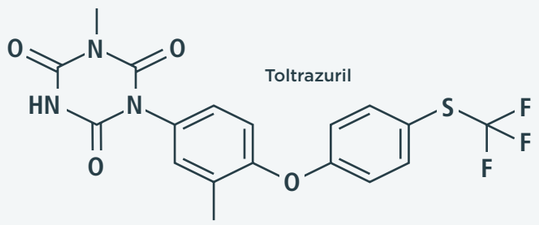
EARLY TREATMENT IS KEY

The earlier the infection in piglets, the more severe the consequences[2]



Infected piglet
Photo credit: Prof. Joachim, Vetmeduni Vienna

Toltrazuril, a substance with proven efficacy against coccidiosis[2]



COCCIDOSIS IN BRIEF

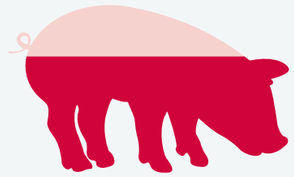
- A major concern in swine production
- Young piglets are infected by oocysts
- Affects young piglets more severely
- Oocysts are extremely resistant in the environment
- Early, effective treatment is ESSENTIAL to significantly reduce OOCYST shedding and clinical problems (diarrhea)[2]

IRON DEFICIENCY ANAEMIA

The most common deficiency in neonatal piglets[3]

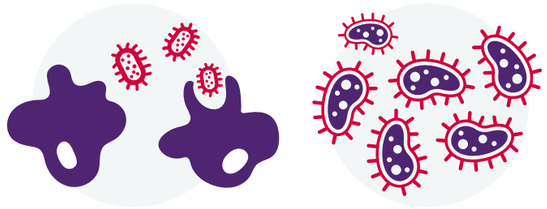
Very high prevalence[4]

Iron deficiency can affect more than **30%** of piglets at weaning



Leading to critical illness[3]

WEAK AND VULNERABLE PIGLETS



Affects the quality of the immune response

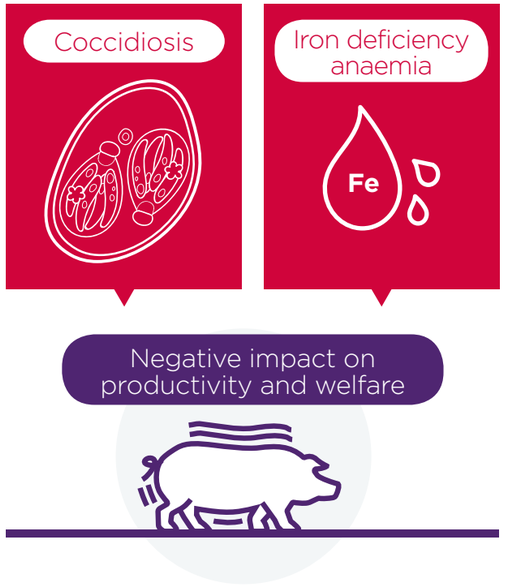
Increases susceptibility to infection and disease

The lack of iron must be counterbalanced by supplementation.[5]

Optimal iron supplementation in piglets should meet two main criteria:

1. Deliver a sufficient amount of iron for erythropoiesis
2. Avoid anaemia to ensure optimal animal growth

Not all iron supplementations are equal; some are more effective than others



Physical differences between a piglet treated with Forceris™ (at left) and an untreated control piglet (at right), the same age. Both piglets were infected with Coccidia at day 3.

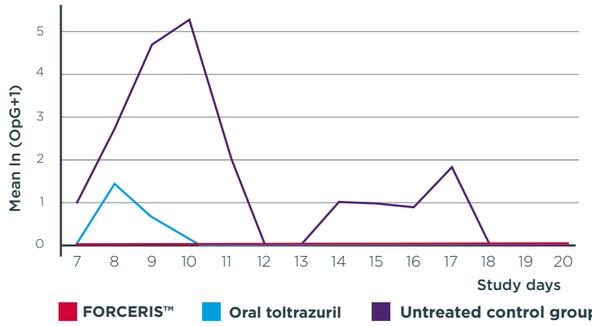
Photo credit: Prof. A. Joachim, Vetmeduni Vienna

FORCERIS™

the first registered combination of iron and toltrazuril

FORCERIS™ completely eliminated oocyst excretion[6]

Oocyst excretion in an experimental trial

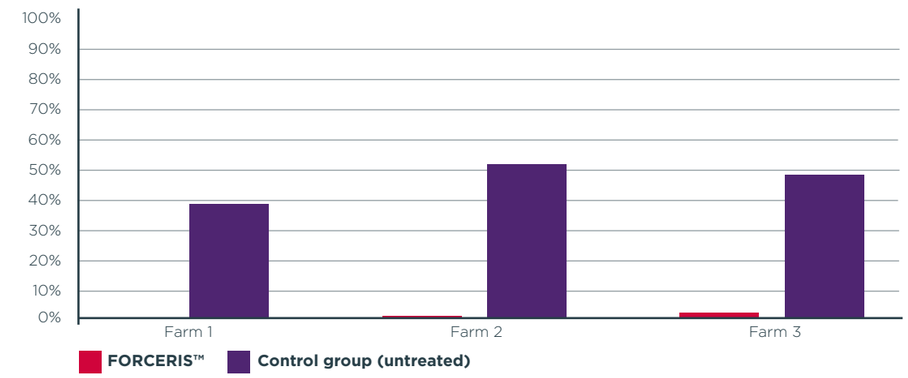


1st registered injectable toltrazuril

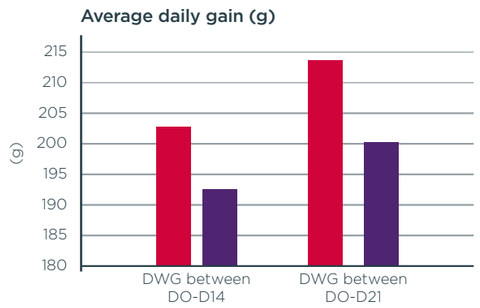
- Better reduction of parasite infection pressure.
- Better prevention of sub-clinical coccidiocis.

OpG: Oocyst per gram

Oocyst excretion under field conditions[7]



FORCERIS™ prevents lower weight gain[7]



Average daily gain

The FORCERIS™ group had a statistically significant higher bodyweight gain from day 0 to day 14 (p=0.0335) and from day 0 to day 21 (p=0.0043).

FORCERIS™ Control group (untreated)

FORCERIS™ : EXCELLENT EFFICACY IN PREVENTING COCCIDIOSIS UNDER EXPERIMENTAL AND FIELD CONDITIONS

FORCERIS™

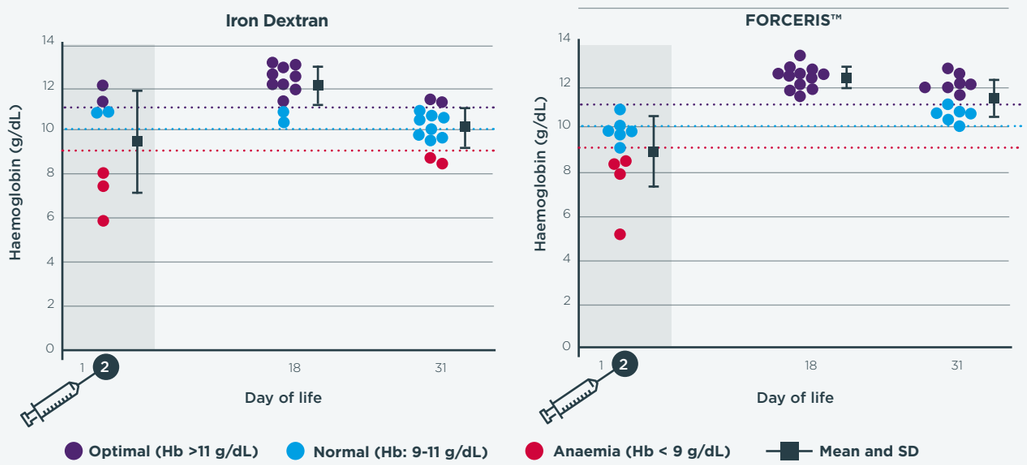
Gleptoferron, a high performance injectable iron

FORCERIS™, has a proven higher efficacy than Iron Dextran[8]

Haemoglobin levels in piglets after treatment with Forceris™ or with an injectable iron dextran product

The Forceris™ group (n=13 piglets) was treated with 1.5 mL of Forceris™ (200 mg iron-gleptoferron, 45 mg toltrazuril per piglet), the Iron Dextran group (n=12) with 1 mL of commercial injectable iron (200 mg iron dextran), both intramuscularly on day 2 of life. Days of life were equal to study days. Blood samples were collected before treatment on day 2, day 18 and day 31.

No anaemic piglets with FORCERIS™



- **Improved growth**
- **Lower risk of infectious disease**
- **Improved profitability**
- **Improved animal welfare**

FORCERIS™ FOR OPTIMAL IRON SUPPLEMENTATION AND FOR THE PREVENTION OF ANAEMIA.

FORCERIS™

A new tool in preventive protocols

FORCERIS™, the first registered injectable combination of gleptoferron and toltrazuril

Control coccidiosis

Combat iron deficiency

The new optimal way for pig professionals to treat all piglets from 1 day of age.

FORCERIS™ ➤ **INNOVATION**

FORCERIS™, a labour and cost-effective solution for giving piglets a healthy start in life

First registered injectable combination

Proven excellent efficacy against coccidiosis [6, 7]

Proven higher efficacy than vs. iron dextran [8]

Better syringeability than injectable iron products [9]

AN INNOVATIVE FORMULATION OPENING A BRIGHT FUTURE FOR PIGLETS, FARMERS AND VETERINARIANS

FORCERIS™

Good for piglets, easy for farmers

The first days after farrowing are a critical period in terms of timing and management.

FORCERIS™ changes the approach to piglet health and welfare management

One single shot to treat both anaemia and coccidiosis

- Two of the most common problems in piglets can now be treated in one single injection
- Less animal handling
- Less labour for farmers
- Improve animal welfare

Simple: the same fixed dose for all piglets (1.5ml)

- 200 mg iron combined with 45 mg toltrazuril per piglet
- No need to weigh the animals
- Reduces labour and labour costs

Improved syringeability

- Facilitates the injection
- Improves animal welfare

Resistant CLAS vials

- Adapted to farm conditions
- Light, resistant to breakage
- Ergonomic grip
- Less impact on the environment

With FORCERIS™, piglet health management will change forever, for the benefit of

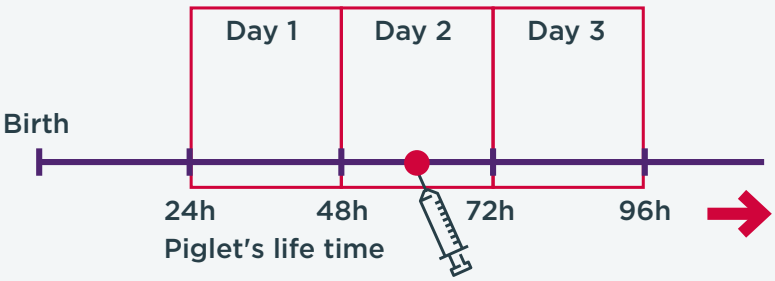
Animals **Farmers** **Veterinarians**

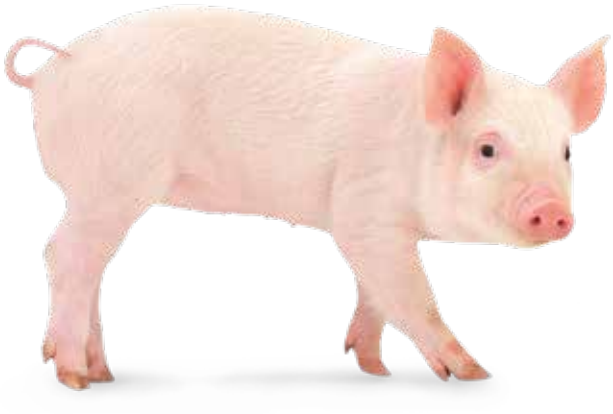
FORCERIS™

A single action for a healthy start

In one single injection, Forceris™ prevents iron deficiency anaemia and coccidiosis.

Forceris treatment days:





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1. Mundt, Journal of Animal Protozooses, 2005. **2.** Mundt et al., Parasitology Research, 2003. **3.** Egeli et al., Acta Veterinaria Scandinavica, 1998. **4.** Perri et al., Journal of Swine Health and Production, 2016. **5.** Salle et al., Proceeding of the 19th IPVS Congress, 2006. **6.** Joachim et al., Parasites & Vectors, 2018. **7.** Ceva internal data. **8.** Sperling et al. Veterinary Record, 2018. **9.** Ceva internal data

COMPOSITION: Each ml contains: Toltrazuril 30 mg, Iron 133.4 mg (as Gleptoferron 20% Fe). **INDICATIONS:** In piglets: For the concomitant prevention of iron deficiency anaemia and prevention of clinical signs of coccidiosis (diarrhoea) as well as reduction in oocyst excretion, in farms with a confirmed history of coccidiosis caused by Cystoisospora suis. **CONTRAINDICATIONS:**

Do not use in piglets suspected to be suffering from a deficiency of vitamin E and/or selenium. **SPECIAL WARNING FOR EACH**

TARGET SPECIES: It is recommended to treat all the piglets in a litter.To obtain maximum benefit towards coccidiosis, animals should be treated before the expected onset of clinical signs, i.e. in the prepatent period. To alter the course of an established clinical coccidial infection in individual animals already showing signs of diarrhoea, additional supportive therapy may be required. Hygienic measures may reduce the risk of porcine coccidiosis. It is therefore recommended to concomitantly improve the hygiene conditions in the farm concerned, particularly by increasing dryness and cleanliness. **ADVERSE REACTIONS:** Deaths have been reported very rarely in piglets following the administration of iron parenteral injections. These deaths have been associated with genetic factors or deficiencies of vitamin E and/or selenium. Piglet deaths have been reported which have been attributed to an increased susceptibility to infection due to temporary blocking of the reticuloendothelial system. Hypersensitivity reactions can occur **INTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION**: Not known. **DOSAGE**: Intramuscular use. Shake well (for 20 seconds) before use.The recommended dose is 45 mg of toltrazuril and 200 mg of iron per piglet, that is, 1.5 ml of Forceris suspension per piglet, to be administered once, in a single intramuscular injection behind the ear, between 1 and 3 days of age (i.e. 24 to 96 hours after birth). **WITHDRAWAL PERIOD**: 70 days. **PRESENTATIONS**: Translucent multi-layered plastic vials with bromobutyl stoppers and aluminium and plastic flip capsules, containing 100 ml, 250 ml. The Summary of Product Characteristics (SPC) may differ per country. Check local SPC before using the product.

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