

FOOT and MOUTH DISEASE

Vaccination scheme with Decivac™ FMD for maximum protection

Foot and Mouth Disease is a very destructive and much-feared disease. Due to the highly contagious nature of the disease in cloven-hoofed animals, an outbreak can have far-reaching consequences.

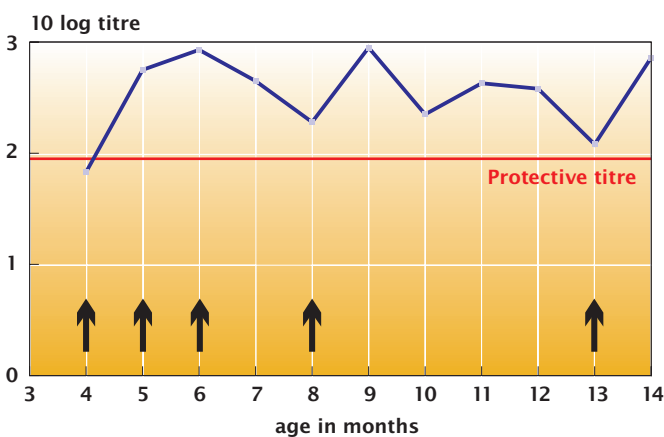
Because of the endemic situation in the Kingdom of Saudi Arabia a field trial was started, in cooperation with the Ministry of Agriculture, to provide information on :

- the optimum vaccination regime in young calves
- the follow-on vaccination regime for adult cattle

Young calves under 1 year old and with maternally derived antibodies (MDA) were vaccinated with Decivac FMD / Intervet, containing the following strains : O1 Manisa, O1 BFS, C3 Philippines, A22 Iraq, Asia 1 and A Sau 41/91.

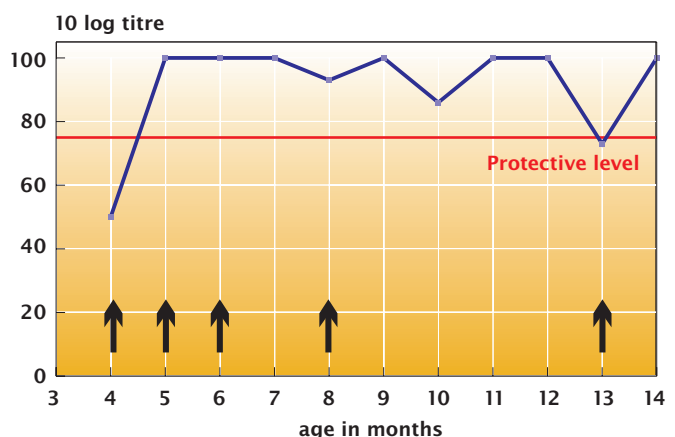
The O1 Manisa titre and Herd Protection Level in calves after vaccination with Decivac FMD are shown below.

O1 Manisa titre*



* A study by the World Reference Laboratory /Pirbright showed that the O1 Manisa strain covers antigenically all O strain isolates from Bahrain, United Arab Emirates and Kuwait. Thereby the O1 Manisa strain will also provide protective levels against other O strains.

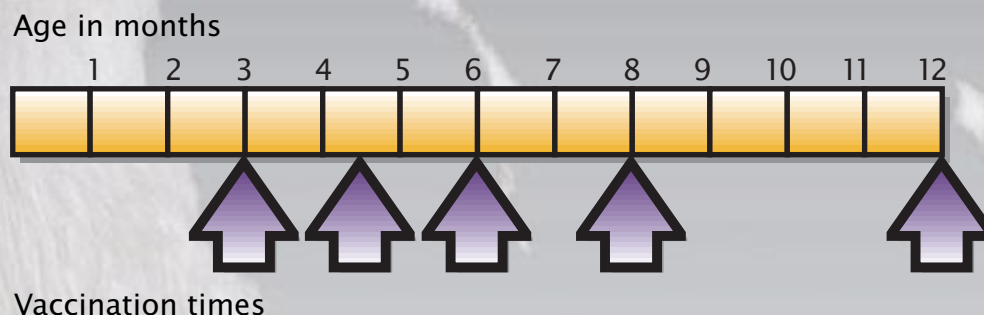
O1 Manisa titre*



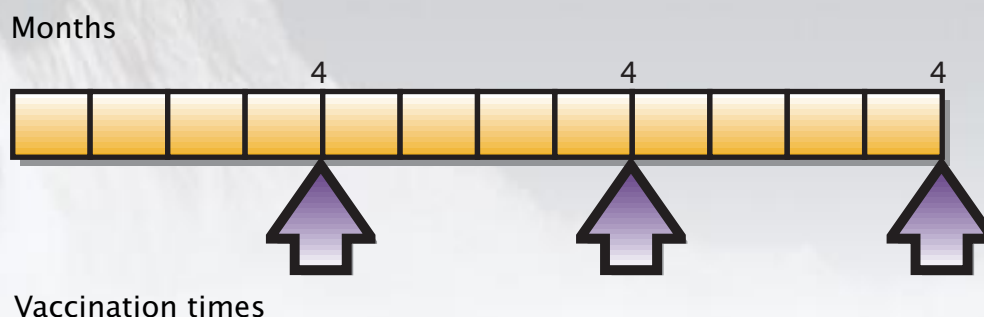
** The HPL is the percentage of animals with a titre above the protective level. A situation with less than 75% of animals protected against a field infection is generally characterised as being risky.

Based on the results of the trial the following vaccination schedule may be advised in high risk areas.

Vaccination schedule in calves with MDA



Follow on vaccination schedule in adult cattle



The above vaccination schedules can be used in areas with a high infection pressure to provide optimum protection.

In other areas with a lower infection pressure the following vaccination programme is recommended:

Cattle

- Young animals without maternal antibodies primary vaccination from the age of 2 weeks onwards.
Thereafter a booster 4-6 months later.
- In case of (suspected) antibodies à primary vaccination from the age of 4 months onwards and a booster 4-6 months later.
- Adult animals should be vaccinated every 6 months*.

Sheep/Goats

- Young animals primary vaccination from 2 weeks onwards and a booster 4-6 months later.
- In case of (suspected) maternal antibodies à primary vaccination from 2 months onwards and a booster 4-6 months later.
- Adult animals should be vaccinated every 6 months.

* Newly imported, naive adult animals must be vaccinated more intensively in high risk areas. Periods of (heat) stress will have a negative influence on the immunological response to FMD vaccination.