

**TITLE**

**ERADICATION OF PRRSV WITH THE PRIME BOOST VACCINATION CONCEPT ON A HUNGARIAN SWINE FARM**

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**CONTENT**

**Background and Objectives**

PRRS is globally one of the most economically devastating diseases in modern swine industry. It creates mainly reproductive and respiratory problems and is hard to control with modified live virus (MLV) vaccines alone. Hungary started in March 2014 with a PRRS national eradication program. The status of all farms in the country was checked and a tailor made eradication protocol was started. A lot knowledge on the control and eradication of the disease and the virus was collected this way.

**Material & Methods**

In the east of Hungary a 1.000 sow farrow-to-finish farm, had PRRS problems (mainly reproductive) for many years despite PRRS MLV vaccination: farm vaccination 3 times/year since 2012. The farm has been proven PRRS positive by PCR (genotype 1, Spanish cluster); end nursery and beginning finishing piglets were tested positive. From December 2017 the vaccination program was changed to the Progressis® Prime-Boost Concept (PBC) 7+3: vaccination of all pregnant gilts and sows PRRS type 1 MLV in 7th week of gestation and KV (Progressis®) 3 weeks prior to farrowing. The gilts received Progressis® PBC vaccination in isolation with 4 weeks interval, finalized 3 weeks before first mating.

**Results**

Since the recent start-up of the PBC 7+3 program the clinical problems related to PRRSv were reduced. In the national monitoring program (20 x 1st and 2nd parity sows, 60xpiglets 4WOA, 60xpiglets 11WOA) from 14-02-2018, 29-05-2018 and 01-10-2018, all the samples tested negative in the PCR.

**Discussion & Conclusion**

Despite many years of MLV vaccination on this Hungarian farrow-to-finish farm the PRRS problems were not controlled. When starting with the Progressis® PBC 7+3 program the clinical problems disappeared. The piglets in nursery were proven PCR negative for PRRSv. The added value of the Progressis® PBC has been confirmed in the national PRRS program.