



AMVC
MANAGEMENT SERVICES
Professionally Raising Pigs

Vaccine Efficacy

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“An ounce of prevention is worth a pound of cure.”

– Benjamin Franklin

Benefits of healthy pigs

- Fewer food safety risks
- Improved animal welfare
- Decreased need for antibiotics
- Improved efficiency
 - Feed more people with fewer animals
- Decreased risk of zoonotic disease transmission

The Veterinarian's Oath

Being admitted to the profession of veterinary medicine, I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health and welfare, the prevention and relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge.

I will practice my profession conscientiously, with dignity, and in keeping with the principles of veterinary medical ethics.

I accept as a lifelong obligation the continual improvement of my professional knowledge and competence.

We have an obligation to prevent disease



Success stories

- Pseudorabies (PRV)
- Porcine circovirus type 2 (PCV2)
- Porcine parvovirus (PPV)
- *Mycoplasma hyopneumoniae*
- Porcine proliferative enteropathy (ileitis)

Challenges

- RNA viruses
 - Porcine reproductive and respiratory syndrome (PRRS) virus
 - Influenza A virus of swine (IAV-S)
 - Rotavirus
- Bacterial diseases
 - *Streptococcus suis*
 - *Haemophilus parasuis*
 - *Actinobacillus suis*

Swine industry

- Disease pressure and risk are high
- Vaccine administration is a time consuming and labor-intensive task
- Pigs are routinely handled at 0-5 days of age and sometimes at 18-21 days of age

Wish list

- Easy to administer
- Broad cross-protection
- Limited or no maternal antibody interference
- Long duration of immunity (> 7 months)
- Combination products
- No adverse effects
- Modified live antigen
- Natural antigen presentation
- Differential testing capability (DIVA)
- +/- Compliance markers

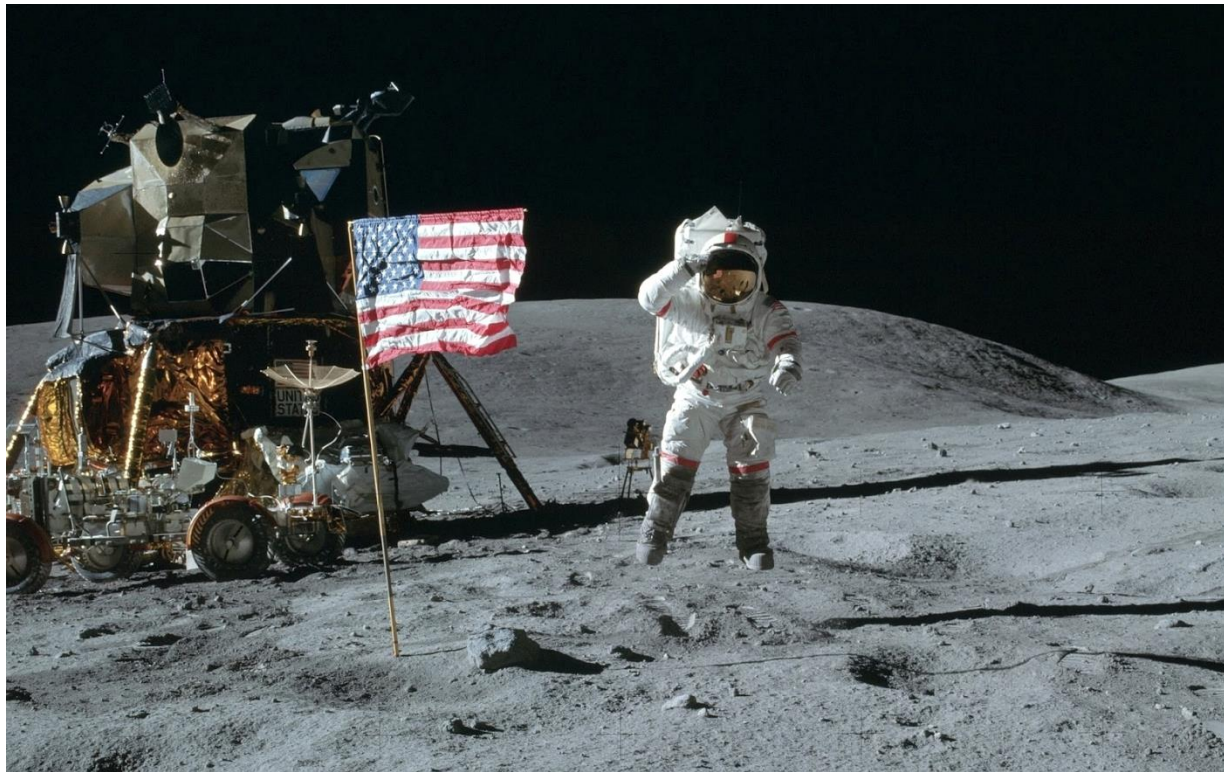
Specifically

- Orally-administered MLV PED vaccine
- IAV-S vaccine that is widely cross-protective and does not cause VAERD
- MLV PRRS vaccine that is protective against the reproductive effects of the disease
- Rotavirus vaccine that provides solid colostral immunity against types A, B and C
- FMD vaccine that is cross-protective for all serotypes
- Broadly protective *Hps* & *Strep suis* vaccines

Lofty goals

“It always seems impossible until it’s done.”

– Nelson Mandela



Thank you

