

Health benefits

Of intradermal vaccination programs for piglets

Why intradermal vaccination?

- 01 It enhances in **animal welfare** by reducing pain and stress for the pigs.
- 02 It creates an **immune response** at least as good as intramuscular administration.
- 03 It **reduces the risk of transmitting diseases** between pigs.
- 04 It **reduces risk of abscess formation and meat discard**.
- 05 It offers advantages for the user as it is **easy to handle and reduces the risk of self-injection**.

Can intradermal vaccination be an efficacious alternative to intramuscular vaccination?



Let's see an example...

640 sows farrow-to-finish farm with 10 batches management and weaning at 21 days.

An intradermal vaccination scheme for piglets at weaning was set up to replace an equivalent intramuscular one.

What immediate changes were observed?

The operators observed an **improvement in work comfort and safety**.

Piglets showed **less stunning at the end of the vaccination**.

- 01 The incidence of **arthritis decreased** durably in the post-weaning period, with a reduction of more than 70% in antibiotics use (from 20% of animals treated individually for arthritis to 5.5%).
- 02 The **post-weaning mortality** replaced by more than 50% (from 5.3% to 2.5%).
- 03 The rate of fattening pigs labeled as **"pig without antibiotics"** increased by nearly 40% (from 66% to 92%).

		Intramuscular vaccination scheme (2016)	Intradermal vaccination scheme (2017)	Evolution %
Use of antibiotics for arthritis in post-weaning period:	% from May to November	20	5.5	-20
Mortality in post-weaning period:	% from May to November	5.3	2.5	-52.8
Rate of fattening pigs labeled as 'Pigs Without antibiotics':	% during Quarter 1 to 3	66	92	+39

Keypoints

In addition to improving people's working comfort, setting up an intradermal vaccination program for piglets leads to an improvement in animal welfare while maintaining the disease protection.



Ref.: Voisin F. et al. Health benefits of setting up an intradermal vaccination program for piglets. ESPHM 2019.

