

Biosecurity principles

Biosecurity in the context of pig farming refers to measures taken to prevent transmission of disease agents within a herd and between herds. Thus, biosecurity includes all of the measures taken to protect a herd from disease spreading within the farm (internal biosecurity) and from being introduced from outside the farm (external biosecurity). Intensified precautions should be adopted when particular disease threats are present. PEDv is a significant threat to the UK pig industry and these biosecurity principles should be followed to minimise disease risk.

The main source of PEDv is infected **faeces**, which can be spread by: pigs, people, vehicles, wildlife (rodents, birds, foxes, flies, pets), equipment and via contaminated bedding, feed and water. PEDv can also be spread through the air, via semen and porcine blood plasma.

Segregation	Use barriers to limit disease spread: <ul style="list-style-type: none"> • No entry signs • Fences and gates • Danish entry system • Lines of separation (real or imaginary).
Sanitation	Employ thorough C&D to inactivate & destroy pathogens from any potentially contaminated surfaces: <ul style="list-style-type: none"> • Remove organic matter with detergent • Wash thoroughly • Use effective disinfectants at correct concentration • Give surfaces time to dry.
Flow management	Organise the movement of people, pigs, vehicles and equipment around the farm to prevent cross-contamination and to ensure that disease is confined to one area. Work from least to most infected areas.
Record-keeping	Keep a record of visitors, vehicles and incoming pigs so that in an outbreak situation, sources of infection and potential onward transmission routes can be identified.

If you don't have PEDv → focus on BIOEXCLUSION, i.e. keeping it OUT

- Be clear about what you expect from visiting vehicles and people
- Do not cross the line of separation when loading pigs
- Source incoming pigs and supplies carefully
- Manage wildlife access.

If you are diagnosed as PEDv positive → focus on BIOCONTAINMENT, i.e. keeping it IN

- Stop all movements to and from the farm
- Forbid any non-essential visits to the farm
- Scrupulously clean and disinfect everything.