Mycotoxin syndromes differential diagnosis



Top ear necrosis

Field	causes	solution	+ BIOMIN solution
NUTRITION	Protein (biogenic ammines), fiber, toxins (!) Cu and/or Mg deficiency	Lower/best protein, higher fiber, Acidification, fulfill Cu, Mg requirements	Digestarom® P.E.P. Mycofix®, Biotronic® SE
ENVIRONMENT	O ₂ , room, feeding space, nr./pen, (biting), etc.	Ventilation, more/larger feeder, less pigs/pen, etc.	
MANAGEMENT	Mixing, cannibalism	Gasoline, evening mixing, straw, etc.	
DISEASE	PCV2, Strepto, E.coli, many sub- clinical gut and lung afflictions	Air, prebiotics, probiotics, acidification, vaccination, antibiotic	Biotronic® SE, Digestarom® P.E.P.

Conjunctivitis

Field	causes	solution	+ BIOMIN solution
NUTRITION	Mycotoxins (chronic trichothecenes)	Prevent moulds, purchase clean raw materials, etc.	Mycofix®
ENVIRONMENT	NH ₄ , powder	Ventilation, relative humidity, etc.	
MANAGEMENT	Manure management, dirty animals	Efficient programmed manure removal, clean animals, etc.	Digestarom® P.E.P.
DISEASE	Chlamydia, PRRS, (CSF)	Biosecurity, hygiene, vaccination, antibiotic	





Skin necrosis

Field	causes	solution	+ BIOMIN solution
NUTRITION	Mycotoxins (T-2 toxin, Ergot, DON)	Prevent moulds, purchase clean raw materials, etc.	Mycofix®
ENVIRONMENT	Pillars, nipples, broken walls, whatevar can produce injury	Remove hurting hardware	
MANAGEMENT	Mixing, sorting, feeding (indigestion)	Sexing, balanced diet, avoid sudden diet changes	Digestarom® P.E.P. Digestarom®
DISEASE	Staphylococcus hyicus (Greasy pig disease)	Treat gilts' siblings immediately, sort out at first signs, hygiene, antibiotics	

Rectal prolapse

Field	causes	solution	+ BIOMIN solution
NUTRITION	Mycotoxins (ZEN), high starch,	Prevent moulds, purchase clean raw materials, etc.	Mycofix®
ENVIRONMENT	Nipples/bowls, water	Verify water pression and drinkers efficiency	Digestarom® P.E.P.
MANAGEMENT	Feeding (constipation), water intake, overcrowding stepping over, cough, seasonality, tail docking, tail biting, sudden diet changes	Fiber, avoid sudden diet changes, avoid water shortage, manage feed changes gradually 3-5 days	Digestarom® P.E.P. Digestarom®
DISEASE	Fever	Anti-inflammatory drug, antibiotic. [Surgery]	





Subclinical mycotoxicoses in pigs Performances [ADG, lean meat, piglets/sow/year]

Field	causes	solution	+ BIOMIN solution
NUTRITION	Protein , fiber, energy, toxins (!)	Better protein, Acidification, etc.	Digestarom® P.E.P. Digestarom®, Mycofix®, Biotronic® SE
ENVIRONMENT	O ₂ , room, feeding space, nr./pen, etc.	Ventilation, more/larger feeder, less pigs/pen, etc.	
MANAGEMENT	Welfare, sorting, sexing, etc.	Gasoline, evening mixing, straw, etc.	
DISEASE	Sub-clinical gut and lung diseases	Biosecurity, Air, prebiotics, probiotics, acidification	Biotronic® SE Digestarom® P.E.P. Digestarom®