

The Pig Diseases in Taiwan

9000 Cases Analysis

San Duo Chen, DVM, Ph.D.

Institute of Veterinary Pathology
National Chung Hsing University
Taiwan

Classification of pig diseases in clinical cases

Digestive system
Respiratory system
Reproductive system
Nervous system
Others

Digestive system

Colibacillosis
Clostridium infection
Transmissible gastroenteritis
Porcine epidemic diarrhea
Rotavirus
Coccidiosis

Digestive system

Salmonellosis
Whip worm
Swine dysentery
Proliferative enteropathy

Salmonellosis

Very common
Enteritis
Septicemia
Encephalitis
Pneumonia
Severe drug resistance

Whip worm

Only in southern Taiwan
Fattening pigs
Poor sanitary farm
Fecal examination
Dichlovos

Respiratory system

A. pleuropneumonia
Mycoplasmosis
Pasteurellosis
Salmonellosis
Toxoplasmosis

Respiratory system

Cytomegalovirus infection
Pseudorabies
Proliferative necrotizing pneumonia
PRRS
Circovirus infection

Actinobacillus pleuropneumonia

Most common
Most severe
Severe drug resistance
Air conditioned farm

Toxoplasmosis

Antibody in large population
Cyst in normal pig
Initiated by stress
Severe diffuse pneumonia
Lung edema
Focal necrosis

Cytomegalovirus infection

Inclusion body rhinitis
Causes death in nursing and
fattening pigs
Severe lung edema
Basophilic intranuclear inclusion

Pseudorabies

Abortion
Nervous type
Visceral type
Pneumonia type
Dermal type

PRRS

Meaty lung
Interstitial pneumonia
Extensive infected
Secondary infection

Circovirus infection

PMWS and PDNS
Basophilic intracytoplasmic inclusion
Very common exists in farm
Secondary infection

Reproductive system

Causes are unknown
Pseudorabies
Parvovirus
Japanese B Encephalitis
Toxoplasmosis
Aflatoxicosis and T-2 toxin

Pseudorabies

Abortion occurred at any gestation period
Focal necrosis in visceral organs
Acidophilic inclusions
Rabbit inoculation

Parvovirus

95 % positive in sows
Immunity for full life
20% in abortion cases
Various severity to fetuses
Abortion at middle trimester
Hemorrhage in fetus

Japanese B Encephalitis

Common in '70 to '80
Mummification
Liquefaction in brain
Delay parturition

Nervous system

Classical swine fever
Pseudorabies
Japanese encephalitis
Toxoplasmosis

Nervous system

Streptococcosis
Edema disease
Tetanus
salt poisoning
HEV
Myoclonia congenita

Others

Foot mouth disease
Swine vesicular disease
Scabies
Poxvirus infection
Exudative epidermitis

Others

Swine erysipela
Eperythrozoonosis
Polyserositis
Vitamin E deficiency
Gastric ulcer

Common Skin diseases

Scabies – itch, pruritus

Pox - rash, papules

Exudative epidermitis –
greasy pig

Polyserositis

Hemophilus parasuis
- acute, exudative, fibrin,

Mycoplasma
- chronic, dry, fibrous c.t.

Vitamin E deficiency

Hepatositis dietetica
Mulberry heart
Selenium unbalance
Different age different dose
Self-producing feed

Gastric ulcer

Feed additive
Copper sulfate
Cofactor of hemopoiesis
Sudden death
Acute liver damage
Gastric ulcer

Special cases

Chronic Hog cholera
Complication of PR and APP
Pseudorabies in dog
Intoxication by Rompom
Intoxication by stealing

Hog cholera

Very important disease
Occurred in all ages
Lesions are untypical
Chronic cases
Septicemic salmonellosis
Teschovirus infection

Complication of PR

A. Pleuropneumonia
PRRS
HC
Toxo
strepto

Pseudorabies in dog

No itching
No obvious gross lesion
Severe salivation
Dyspnea
Anorexia
Died within 16-32 hr

? case

2000 pigs in a farm
20 sows died during a night
30 sows were dying or sick
Other pigs were normal
No obvious gross lesion
Security dog died

**Thank you
for your attention**

**謝謝
敬請指教**