



HOW DOES ASF LOOK LIKE?

The present flyer provides essential information about the clinical presentation of the disease to help to identify the most common clinical signs and lesions induced by ASFV Isolates of different virulence.

Classification of ASFV isolates according to the virulence *versus* clinical form of ASF:

- √ High virulence isolates → peracute and acute forms of disease.
- ✓ **Moderate virulence isolates** → acute, subacute and chronic forms of disease.
- ✓ **Low virulence isolates (attenuated)** → subclinical or chronic form of the disease.

Clinical forms of African swine fever according to the virulence of the isolate involved



Source: FAO





ASF CLINICAL FORM	MORTALITY [days post infection]	EXTERNAL CLINICAL SIGNS	LESIONS
Peracute	100% [1-4 days]	Fever (41-42 °C), anorexia, and inactivity hyperpnoea, and cutaneous hyperemia. Animals usually die suddenly without clinical signs.	No lesions are evident in organs.
Acute	90-100%	• Fever (40-42 °C), anorexia, recumbence, lethargy, weakness an	,
	[6-9 days] _{Highly virulent ASFV} [11-15 days] _{Moderately} virulent ASFV	recumbence and show increased respiratory rate; bluish-purple areas and hemorrhages (spot-like or extended) o the ears, abdomen, and/or hind legs coular and nasal discharge; reddening of the skin of the chest, abdomen, perineum, tail, and legs; constipation or diarrhea, which may progress from mucoid to bloody (melena); vomiting; abortion of pregnant sows at all stages of pregnancy; bloody froth from the nose/mouth and a discharge from the eyes; the area around the tail may be soiled with bloody faeces.	 enlarged, edematous, and completely hemorrhagic lymph nodes similar to blood clots (particularly gastro hepatic, and renal); enlarged, friable, and dark-red to black spleen with rounded edges; petechiae (spot-like hemorrhages) on the capsule of the kidneys. excess of fluids in the heart (hydro pericardium with yellowish fluid) and body cavities (hydrothorax, ascites); petechiae on the heart's surface (epicardium), urinary bladder, and kidneys (on the cortical and renal pelvis); the lungs may present congestion and petechiae, with froth in the trachea and bronchus, and severe alveolar and interstitial pulmonary oedema; petechiae, ecchymosis (larger hemorrhages), and excess clotted blood in the stomach and small and large intestines; hepatic congestion and hemorrhages in the gall bladder.
Subacute	30-70% [7-20 days]	 Similar (although generally less intense) to those observed in the acute form, except vascular changes that are more intensed mainly hemorrhages and edemas. Fluctuating fever, accompanied by depression and loss of appetite, are also common. Painful walking; joints are often swollen with accumulated fluit and fibrin. Labored respiration and pneumonia. Abortion 	Ascites and hydro pericardium; edema of the wall of the gallbladder and bile duct as well as in the surrounding area of kidneys (perirenal edema); partial hyperemic splenomegaly with focal infarction; hemorrhagic, edematous and friable lymph nodes, (they often
Chronic	<30% [> 1month]	 Slight fever (40-40. 5 °C) followed by mild respiratory distress and moderate-to-severe joint swelling. Reddened areas of skin that become raised and necrotic 	 Pneumonia with caseous necrosis (sometimes with focal mineralization) in lungs; fibrinous pericarditis; edematous lymph nodes, which can be partially haemorrhagic (mainly mediastinal lymph nodes)





ASF External clinical signs acute-subacute ASF







✓ Reddening of the skin - tips of ears and both front and hind legs.

✓ Cyanosis







- ✓ Reddening of the skin - tips of ears and both front and hind legs.
- ✓ Cyanosis











- ✓ Necrotic areas o the skin surface
- ✓ Subcutaneus haematomas (ears, chest, abdomen and both front and hind legs)







- ✓ Necrotic areas on the skin surface.
- ✓ Subcutaneus haematomas (ears, chest and abdomen)









Abdomen)

- ✓ Necrotic areas on the skin surface.
- ✓ Subcutaneus haematomas (abdomen)





- ✓ Melena
- ✓ Epistaxis
- √ Foam in mouth/nose





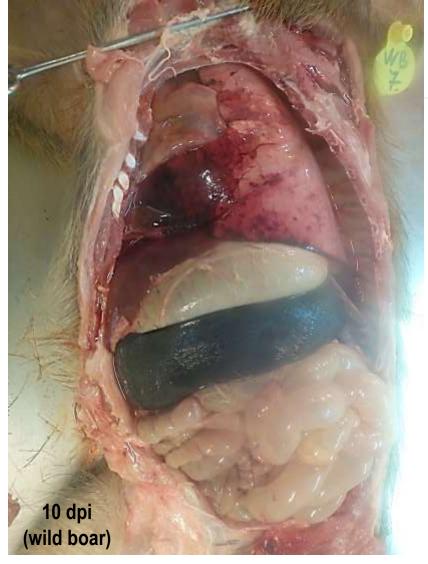






ASF pathological findings acute-subacute ASF









Ascites with redish fluid



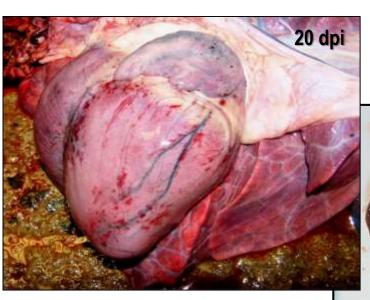


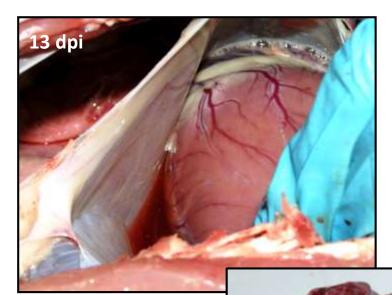


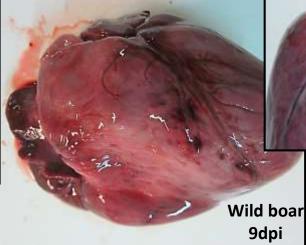


Heart.

- ✓ Hydropericardium with redish fluid
- ✓ Petechial haemorrhages on epicardium







AFRICANES WINE FEVER (ASF)



✓ Hydrotorax

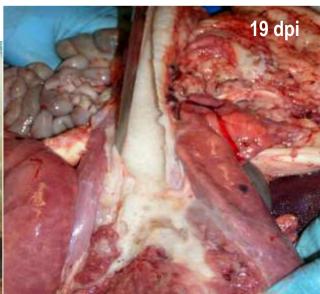
Lung.

- ✓ Congestion
- ✓ Petechial haemorrhages
- ✓ Froth in trachea and bronchus
- ✓ Severe alveolar and interstitial pulmonary edema.









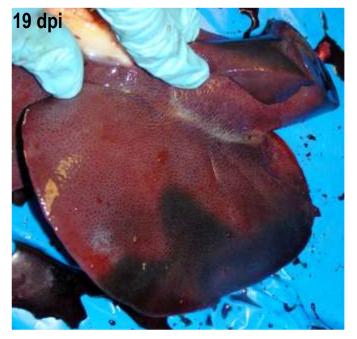


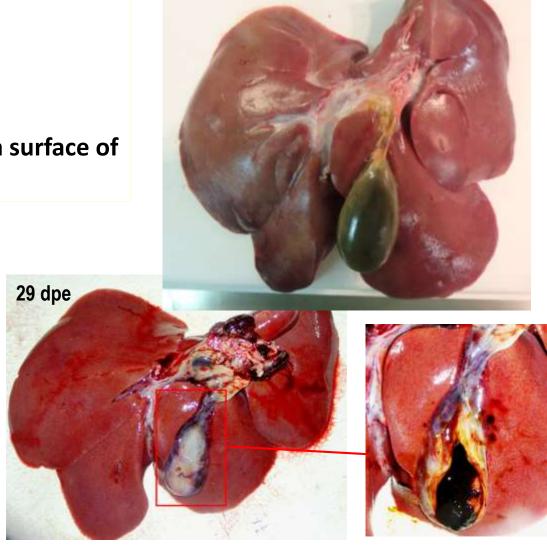
AFRICANISWINE FEVER

Ascites with yellowish fluid

Liver

- **✓** Congestion
- √ Hepatomegaly
- Haemorrhages on the serosa surface of gall bladder





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EUROPEAN UNION REFERENCE LABORATORY for

AFRICANESWINE FEVER

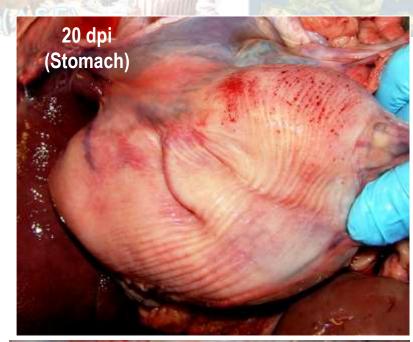
Stomach

Petechial haemorrhages on serosa and mucosa

Small and large intestine

Petechial haemorrhages on serosa and mucosa







AFRICANTS WINE FEVER (ASF)



Stomach

Petechial haemorrhages on serosa and mucosa

Small and large intestine

Petechial haemorrhages on serosa and mucosa







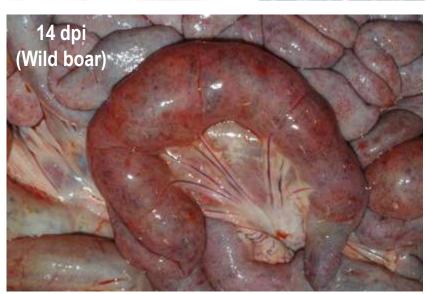
Stomach

Petechial haemorrhages on serosa and mucosa

Small and large intestine

Petechial haemorrhages on serosa and mucosa









Kidney

✓ Petechiae in cortex (more numerous and intense in larger courses of disease)



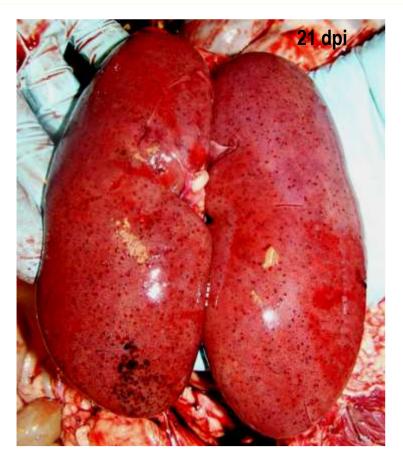


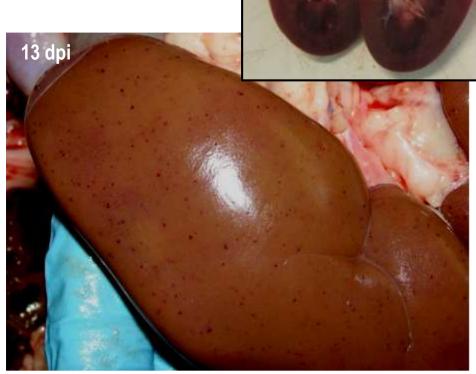




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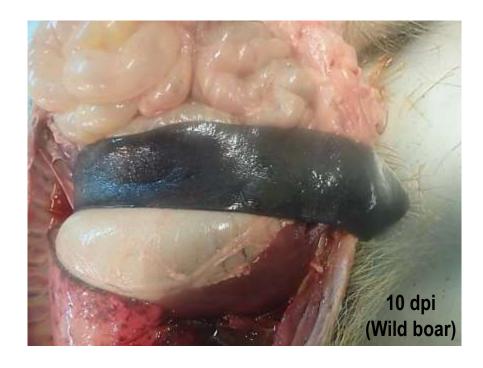






Spleen

 ✓ Hyperemic splenomegaly (enlarged with rouded edges, friable and dark red to black)





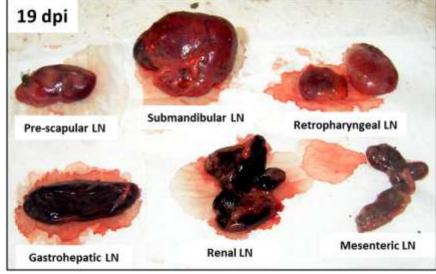




Lymph nodes enlarged edematous and completely hemorrhagic similar to a blood clot, mainly gastro hepatic and renal LNs.



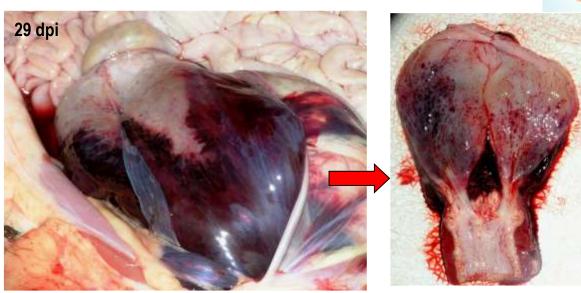


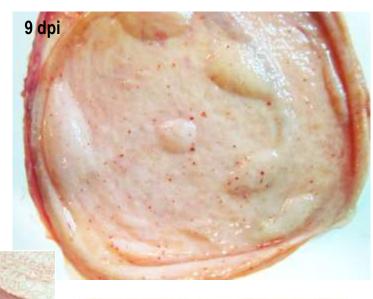


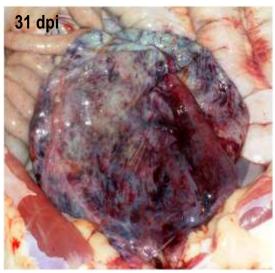


Urinary Bladder

- ✓ Edema in urinary bladder wall
- Haemorrhages (petechiae, ecchymoses and suffusions) in submucosa and serosa
- ✓ Occasional clot blood on mucosa surface











ASF External clinical signs chronic ASF





Moderate to severe joint swelling, often combined with reddened areas of skin that become raised and necrotic.

AFRICANESWINE FEVER (ASE)



- ✓ Moderate to severe joint swelling, often combined with reddened areas of skin that become raised and necrotic.
- ✓ Cyanosis





















JOINT SWELLING, NECROTIC FOCI







ASF pathological findings chronic ASF

Severe respiratory disorders

Caseous necrosis and mineralization of the lungs







