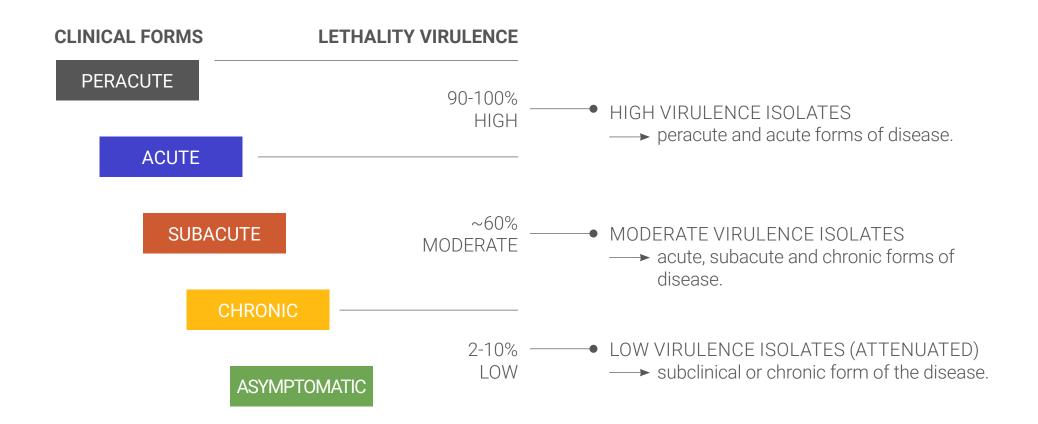


# HOW DOES ASF LOOK LIKE?

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



Source: FAO.

ASF CLINICAL FORM	MORTALITY [days post infection]	EXTERNAL CLINICAL SIGNS	LESIONS
PERACUTE	<b>100%</b> [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% • [6-9 days] Highly virulent ASFV • [11-15 days] Moderately virulent ASFV	<ul> <li>Fever (40-42 °C), anorexia, recumbence, lethargy, weakness andrecumbence and show increased respiratory rate.</li> <li>Bluish-purple areas and hemorrhages (spot-like or extended) on the ears, abdomen, and/or hind legs</li> <li>Ocular and nasal discharge.</li> <li>Reddening of the skin of the chest, abdomen, perineum, tail, and legs.</li> <li>Constipation or diarrhea, which may progress from mucoid to bloody (melena).</li> <li>Vomiting.</li> <li>Abortion of pregnant sows at all stages of pregnancy.</li> <li>Bloody froth from the nose/mouth and a discharge from the eyes.</li> <li>The area around the tail may be soiled with bloody faeces.</li> </ul>	<ul> <li>Hemorrhages under the skin.</li> <li>Enlarged, edematous, and completely hemorrhagic lymph odes similar to blood clots (particularly gastro hepatic, and renal).</li> <li>Enlarged, friable, and dark-red to black spleen with rounded edges.</li> <li>Petechiae (spot-like hemorrhages) on the capsule of the kidneys.</li> <li>Excess of fluids in the heart (hydro pericardium with yellowish fluid) and body cavities (hydrothorax, ascites).</li> <li>Petechiae on the heart's surface (epicardium), urinary bladder, and kidneys (on the cortical and renal pelvis).</li> <li>The lungs may present congestion and petechiae, with froth in the trachea and bronchus, and severe alveolar and interstitial pulmonary oedema.</li> <li>Petechiae, ecchymosis (larger hemorrhages), and excess clotted blood in the stomach and small and large intestines.</li> <li>Hepatic congestion and hemorrhages in the gall bladder.</li> </ul>
SUBACUTE	<b>30-70</b> % [7-20 days]	<ul> <li>Similar (although generally less intense) to those observed in the acute form, except vascular changes that are more intense, mainly hemorrhages and edemas.</li> <li>Fluctuating fever, accompanied by depression and loss of appetite, are also common.</li> <li>Painful walking; joints are often swollen with accumulated fluid and fibrin.</li> <li>Labored respiration and pneumonia.</li> <li>Abortion</li> </ul>	<ul> <li>Ascites and hydro pericardium.</li> <li>Edema of the wall of the gallbladder and bile duct as well as in the surrounding area of kidneys (perirenal edema).</li> <li>Partial hyperemic splenomegaly with focal infarction.</li> <li>Hemorrhagic, edematous and friable lymph nodes, (they often look like dark red hematomas).</li> <li>Renal hemorrhages are more intense (petechiae and ecchymosis) and more extensive (cortex, medulla and pelvis) than in acute forms.</li> </ul>
CHRONIC	<30% [> 1month]	<ul> <li>Slight fever (40-40. 5 °C) followed by mild respiratory distress and moderate-to-severe joint swelling.</li> <li>Reddened areas of skin that become raised and necrotic.</li> </ul>	<ul> <li>Pneumonia with caseous necrosis (sometimes with focal mineralization) in lungs.</li> <li>Fibrinous pericarditis.</li> <li>Edematous lymph nodes, which can be partially haemorrhagic (mainly mediastinal lymph nodes).</li> </ul>

- Pigs are visibly weak with fever and huddle to stay warm.
- Reddening of the skin.





- 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 of the skin surface.
- Subcutaneus haematomas (ears, chest, abdomen and both front and hind legs).







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







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







- Melena.
- Epistaxis.
- Foam in mouth/nose.









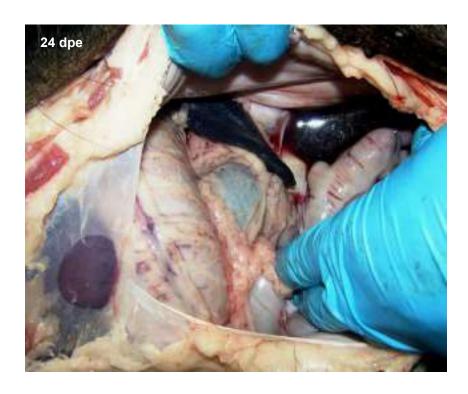
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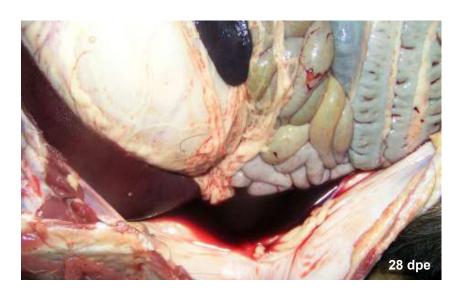




#### **ABDOMINAL CAVITY**

· Ascites with redish fluid.

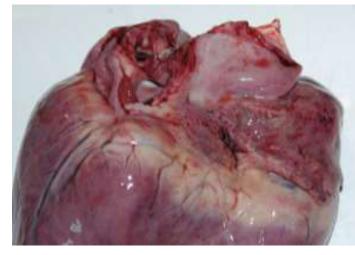


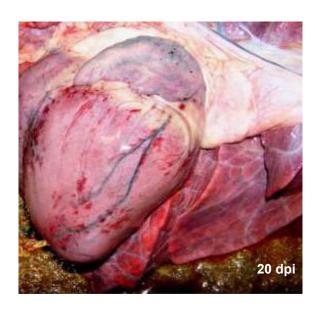




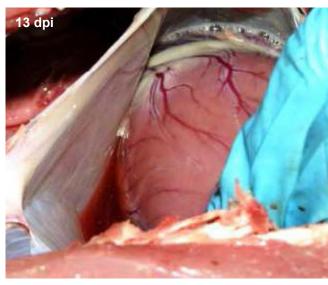
#### **HEART**

- Hydropericardiumwithredishfluid.
- Petechial haemorrhages on epicardium.
- Hydrotorax.









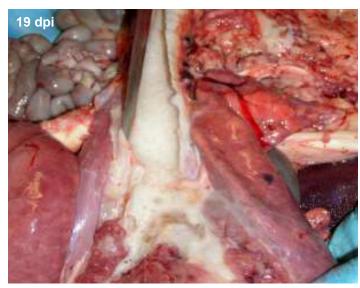
#### **LUNG**

- Congestion.
- Petechial haemorrhages.
- Frothin tracheaand bronchus.
- Severe alveolar and interstitial pulmonary edema.
- Ascites with yellowish fluid.



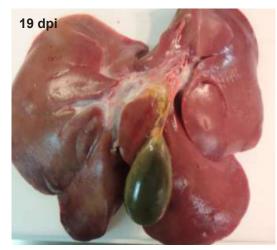




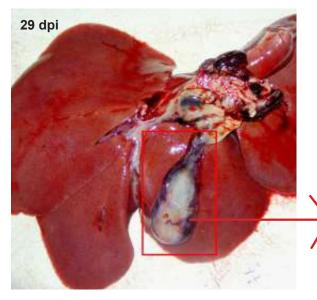


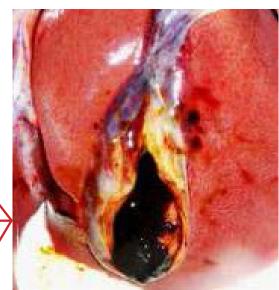
#### **LIVER**

- Congestion.
- Hepatomegaly.
- Haemorrhages on the serosa surface of gall bladder.









#### **STOMACH**

• Petechial haemorrhages on serosa and mucosa.







#### **SMALL AND LARGE INTESTINE**

• Petechial haemorrhages on serosa and mucosa.







#### **SMALL AND LARGE INTESTINE**

• Petechial haemorrhages on serosa and mucosa.



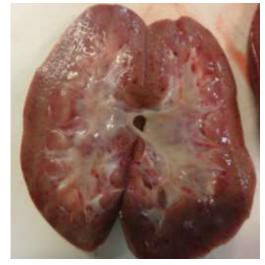


#### **KIDNEY**

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



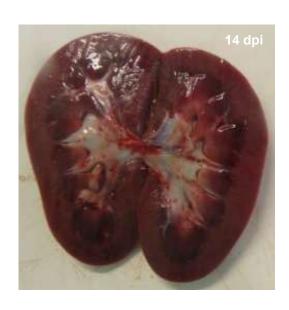


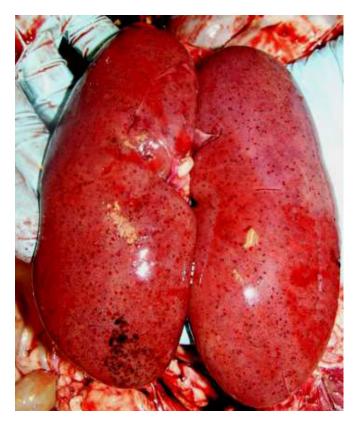




#### **KIDNEY**

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







#### **APLEEN**

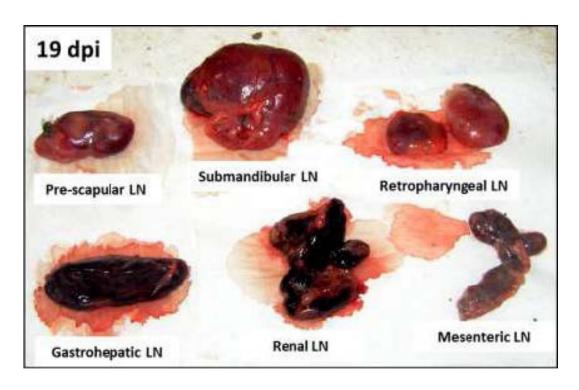
• Hyperemic splenomegaly (enlarged with rouded edges, friable and dark red to black).



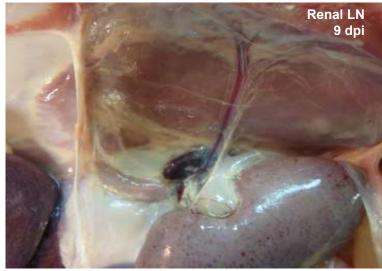




 Lymph nodes enlarged edematous and completely hemorrhagic similar to a blood clot, mainly gastro hepatic and renal LNs.

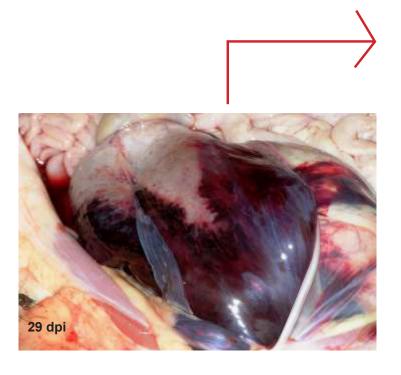






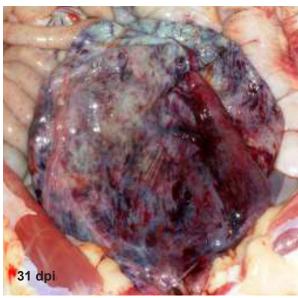
#### **URINARY BLADER**

- · Edema in urinary bladder wall.
- Haemorrhages (petechiae, ecchymoses and suffusions) in submucosa and serosa.
- · Occasionalclotbloodonmucosa surface.









### ASF EXTERNAL CLINICAL SIGNS CHRONIC ASF

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





### ASF EXTERNAL CLINICAL SIGNS CHRONIC ASF

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







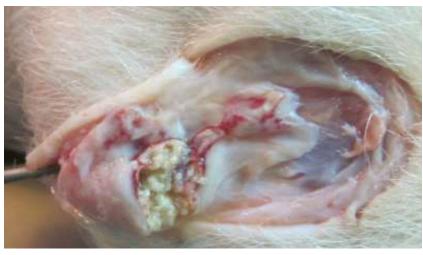
## ASF EXTERNAL CLINICAL SIGNS CHRONIC ASF

• Joint swelling, necrotic foci.











### ASF PATHOLOGICAL FINDINGS CHRONIC ASF

- Severe respiratory disorders.
- Caseous necrosis and mineralization of the lungs.









