

# **Kings Bounty Equine Practice Client Fact Sheet**

# Equine Viral Arteritis (EVA)

### What is EVA?

Equine viral arteritis (EVA) is a contagious disease caused by equine arteritis virus (EAV) that is present in many equine populations worldwide. Although not considered life-threatening in otherwise healthy, older horses, EVA is of industry concern because it can result in economically significant outbreaks of abortion in pregnant mares and very infrequently, death in young foals, as well as establishment of a long-term carrier state in stallions.



#### What causes EVA?

- The disease is caused by equine arteritis virus (EAV)
- the placental barrier and cause abortions or the birth of a congenitally infected live but diseased foal in mares exposed to infection very late in gestation
- The virus can also persist in the reproductive tract of a percentage of infected stallions for a variable period of time
- e Although the virus is not considered especially resistant outside the body, it will retain its infectivity in semen or other biological material for an extended period if these are kept frozen. EAV stimulates a long-lasting immunity that protects against development of clinical disease and establishment of the carrier state in stallions

### How is EVA transmitted?

EVA is spread most frequently through direct contact with an acutely infected horse and exposure to infective aerosolised respiratory secretions. EAV is present in greatest concentration in respiratory tract secretions and in the semen of carrier stallions. Introduction of EAV onto studs can occur by a visiting mare, a nurse mare or teaser stallion either sub clinically infected with the virus or incubating the infection. Many outbreaks originate from the introduction of a carrier stallion or the use of infective fresh-cooled or frozen semen. Since carrier stallions shed EAV solely in semen, they can only transmit the infection by the venereal route. In mares that abort due to EAV, viral exposure occurs by the respiratory route through direct contact with an acutely infected horse, usually an unprotected mare recently bred with infective semen. Congenitally acquired infection in foals occurs infrequently in mares infected with the virus very late in pregnancy





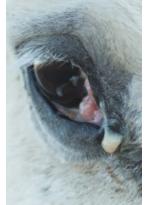
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## What are the signs of EVA?

Where clinical signs of EVA develop, the onset of illness occurs within 3-7 days of exposure, depending primarily on route of exposure. Signs of the disease can vary widely in range and severity and may persist for several days up to two weeks. Typical cases of EVA may

present with any of the following:

- Fever
- Swelling of the dependant parts of the body (limbs, scrotum, sheath, mammary glands)
- Loss of appetite and depression
- Swelling above or around one or both eyes, conjunctivitis and ocular discharge
- Stiffness of gait
- Skin rash frequently localised to the head or neck but sometimes generalised



Abortion may supervene in pregnant mares and very uncommonly, pneumonia, and enteritis (inflammation of the intestines) in young foals. Abortion can occur from early to late pregnancy. Stallions affected with EVA that develop fever and scrotal oedema of some duration, are likely to experience a period of temporary sinfertility.

### How is EVA diagnosed?

- It is not possible to base a diagnosis of EVA solely on clinical evidence of the disease
- It is important to seek
  veterinary assistance if faced
  with a suspected case/outbreak
  of EVA
- Laboratory confirmation of a provisional clinical diagnosis of the disease should be obtained as soon as possible so the necessary measures to restrict spread of the infection can be implemented without any delay

#### What is the treatment for EVA?

There is no specific anti-viral therapy for EVA. Since the vast majority of cases of the disease make uneventful clinical recoveries, symptomatic treatment is only indicated in severe cases of infection associated with high fever and extensive oedema, especially in

stallions. Adequate sexual rest and treatment with non-steroidal anti-inflammatory drugs and diuretics are indicated in such individuals. At the present time, there is no proven non-surgical means of successfully eliminating the carrier state in the stallion.



### How do you prevent EVA?

All breeding stallions should be vaccinated every 6 months against EVA to prevent establishment of the carrier state. Similarly, all colt foals should be vaccinated between 9 and 12 months of age for the same reason. Carrier stallions can continue to be used commercially, provided they are bred only to EVA-vaccinated mares or mares previously naturally infected with EAV. Where artificial insemination is used, special attention should be paid to determining the infectivity status of shipped semen, especially if imported from abroad.