CHAPTER 11.10.

**INFECTION WITH *theileria ANNULATA,
T. ORIENTALIS* AND *T. PARVA***

Article 11.10.1.

**General provisions**

*~~Animals~~* ~~susceptible to~~ *~~infection~~* ~~with~~ *~~Theileria~~* ~~are~~ Theileriosis is a disease of bovines (*Bos indicus*, *B. taurus* and *B. grunniens*), water buffaloes *(Bubalus bubalis)*, African buffaloes *(Syncerus caffer)*, sheep *(Ovis aries)*, goats *(Capra hircus),* camels (*Camellus dromedarius* and *C. bactrianus)* andsome *wild* ruminants.

*~~Infection~~* ~~with Theileria~~Theileriosis can give rise to disease of variable severity and ~~to~~ *~~Theileria~~* ~~transmission.~~ *~~Theileria~~* the pathogenic agent may persist in ruminants for their lifetime. Such *animals* are considered carriers.

Only bovines and water buffaloes play a significant epidemiological role in the *infection* with *Theileria annulata*, *T. orientalis* and *T. parva.*

For the purposes of the *Terrestrial Code*, *infection* with *Theileria annulata*, *T. orientalis* and *T. parva* ~~are~~ is defined as a tickborne *infection* of bovines and water buffaloes with *T. annulata, T. orientalis* Ikeda, *T.* *orientalis* Chitose ~~and~~or *T. parva*.

For the purposes of this chapter, *Theileria* means *T. annulata, T. orientalis* Ikeda, *T.* *orientalis* Chitose and *T. parva.*

The following defines the occurrence of *infection* with *Theileria*:

1) *Theileria* has been identified in a sample from a bovine or water buffalo; or

2) antigen or nucleic acid specific to *Theileria* has been identified in a sample from a bovine or water buffaloshowing clinical signs consistent with *infection* with *Theileria*, or epidemiologically linked to a suspected or confirmed *case*, or giving cause for suspicion of previous association with *Theileria*; or

3) antibodies specific to *Theileria*, that are not the consequence of *vaccination*, have been detected in a sample from a bovine or water buffalo ~~that either shows~~showing clinical signs consistent with *infection* with *Theileria*, or ~~is~~ epidemiologically linked to a suspected or confirmed *case* or giving cause for suspicion of previous association with *Theileria*.

For the purposes of the *Terrestrial Code*, the *incubation period* for *infection* with *Theileria* shall be 35 days.

Standards for diagnostic tests and vaccines are described in the *Terrestrial Manual*.

Article 11.10.2.

**Safe commodities**

When authorising the importation or transit of the following *commodities*, *Veterinary Authorities* should not require any *Theileria-*related conditions regardless of the *~~infection~~* ~~with~~ *~~Theileria~~* health status of the *animal population* of the *exporting country* or *zone*:

1) *meat* and *meat products*;

2) *casings*;

3) *milk* and *milk products*;

4) gelatine and collagen;

5) tallow;

6) semen and embryos;

7) hooves and horns;

8) bones.

Article 11.10.3.

**Country or zone free from infection with *Theileria***

1) A country or a *zone* may be considered free from *infection* with *Theileria* when the disease is notifiable in the entire country, importation of bovines and water buffaloes and their *commodities* is carried out in accordance with this chapter, and:

a) the country or *zone* is historically free as described in Article 1.4.6.; or

b) a *surveillance* programme in accordance with Chapter 1.4. has demonstrated no evidence of *infection* with *Theileria* in the country or *zone* for at least two years; or

c)an ongoing *surveillance* programme in accordance with Chapter 1.5. has found no competent tick *vectors* for at least two years in the country or *zone*.

2) A country or *zone* free from *infection* with *Theileria* in which ongoing *vector surveillance*, performed in accordance with Chapter 1.5., has found no competent tick *vectors* will not lose its free status through the introduction of vaccinated, test-positive or infected bovines or water buffaloes from infected countries or *zones*.

3) A country or *zone* free from *infection* with *Theileria* will not lose its status as a result of introduction of seropositive or vaccinated bovines, water buffaloes or their *commodities*, provided they were introduced in accordance with this chapter.

Article 11.10.4.

**Recommendations for importation** **of bovines and water buffaloes from countries or zones free from infection with *Theileria***

~~For bovines and water buffaloes~~

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that the animals:

1) showed no clinical sign of *infection* with *Theileria* on the day of shipment;

2) come from a country or *zone* free from *infection* with *Theileria*.

Article 11.10.5.

**Recommendations for importation of bovines and water buffaloes from countries or zones not free from infection with *Theileria***

~~For bovines and water buffaloes~~

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that the animals:

1) showed no clinical sign of *infection* with *Theileria* and no *infestation* with tick *vectors* on the day of shipment;

2) were kept isolated for at least 35 days prior to shipment, in an e*stablishment* where no *case* of *infection* with *Theileria* has occurred during the preceding two years;

3) were treated with a registered acaricide, the efficacy of which has been confirmed in relation to the area of origin of the *animals*, at the ~~entrance~~ time of entry ~~in~~to ~~of~~ the isolation *establishment* and then at regular intervals, according to the manufacturer’s instructions, allowing continuous protection against ticks until their shipment ~~48 hours prior to entry to the~~ *~~establishment~~*~~, no more than two days after entering the~~ *~~establishment~~* ~~and three days prior to shipment~~;

4) were subjected to serological and agent detection tests with negative results on samples taken immediately prior to ~~on~~ entry and at least 25 days after entry ~~in~~to~~to~~ the isolation *establishment*~~and five days before shipment~~.

Article 11.10.6.

**Recommendations for importation of hides and skins from countries or zones not free from infection with *Theileria***

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that the products have been:

1) dry-salted or wet-salted for a period of at least 14 days prior to dispatch; or

2) treated for a period of at least seven days in salt (NaCl) with the addition of 2% sodium carbonate (Na2CO3); or

3) dried for a period of at least 42 days at a temperature of at least 20°C; or

4)frozen to at least -20°C for at least 48 hours.

Article 11.10.7.

**Recommendations for importation of trophies derived from susceptible ~~wild~~ ruminants from countries or zones not free from infection with *Theileria***

*Veterinary Authorities* should require the presentation of an *international veterinary certificate* attesting that the products have been processed to ensure the destruction of tick *vectors*.

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