# POSTER ABSTRACTS

### **Veterinary Pathology: Others**

# 193 | ASSOCIATION OF AEROMONAS SPP. WITH MORTALITY AND PERIVISCERAL ADIPOSE TISSUE NECROSIS IN REDTAIL CATFISH (PHRACTOCEPHALUS HEMIOLIOPTERUS)

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#### Background

Aeromoniasis is a disease caused by different bacteria belonging to the genus Aeromonas, and it is known to have high mortality rates in fish. The objective of this study is to describe the lesions associated with these bacteria in a group of redtail catfish (Phractocephalus hemioliopterus) from a private aquarium.

### Materials & Methods

Necropsies were performed on seven redtail catfish (Phractocephalus hemioliopterus) that suffered from acute deaths. Samples were collected for bacterial culture and histological examination of all organs.

#### Results

The fish presented with non-specific clinical signs of sudden onset on the day of death, including erratic swimming. External examination did not reveal typical *Aeromonas* lesions, such as skin haemorrhages, only some fish presented with distention of the coelomic cavity. Internally, a substantial amount of perivisceral fat was observed in the coelomic cavity with extensive multifocal flattened lesions, diffuse borders and yellowish-reddish colouring. Histologically, the adipose tissue showed extensively vascularised septa of connective tissue infiltrated by a dense mass of macrophages containing a fine to coarse brownish-yellow granular material. In addition, a severe cellular inflammatory reaction and multifocal necrotic areas were observed. Bacterial culture and PCR were positive for *Aeromonas veroni* and *Aeromonas hydrophila* in the adipose tissue samples.

#### Conclusion

This work describes for the first time the association between Aeromonas spp. and extensive multifocal perivisceral adipose necrosis in acute deaths of redtail catfish maintained under human care.