Diseases and disorders of cobia (Rachycentron canadum)

A) Vibriosis by *V. alginolyticus*
- Mass mortality of cobia sub adults
- Septicaemia: Erythematous patches over the lower abdomen and tail
- Eye: Severe congestion
- Peritoneal cavity: Serosanguinous peritoneal fluid
- Stomach: Severe haemorrhages and congestion
- Heart: Severe haemorrhagic and fibrinous adhesion in pericardium

B) Vibriosis by *V. parahaemolyticus*
- Dermatitis form of vibriosis by *V. parahaemolyticus*
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- Cobia stomach: Pin point haemorrhages all over the mucus layer

C) Vibriosis by *Vibrio Harveyi*
- Liver dorsal view: Focal haemorrhage due to *V. Harveyi* infection
- Liver ventral view: Focal haemorrhage due to *V. Harveyi* infection
- Cobia stomach: Generalized haemorrhage all over the mucosa

D) Viral Nervous Necrosis (VNN) by *Betanodavirus*
- Erythematous patches all over the skin
- Liver: severe necrosis at the caudal lobe
- Brain: Severe congestion

E) Gastroenteritis due to algal bloom *Trichodesmium Spp.*
- Cobia stomach: Fluid accumulation
- Cobia stomach digested algal bloom *Trichodesmium*
- Cobia pyloric caeca severe congestion and haemorrhage

F) Anomalies or Birth Defects
- Undeveloped maxillary process
- Pug headed cobia and mandibular prognathism
- Scoliosis

G) Parasitic Infestation
- *Parapetalus occidentalis* Wilson, 1908 with genital care
- *Parapetalus occidentalis* Wilson, 1908 female and male
- Peritoneal cavity: Nematode *Philometra* spp

H) Amyloodiniosis (Marine Velvet Disease) by *Amyloodinium Ocellatum*
- Wet mount: Gill-infested with feeding stage of trophonts
- Gill: Severe infestation by adult trophonts
- Reproductive stage - Tomont

I) Vorticella Spp Infestation
- Wet mount: Gill-Myoneme of Vorticella sp
- Wet mount: Skin-Myoneme of Vorticella sp. Stalk penetrated deep to the epithelium
- Cobia larve skin: Various cell bodies of the parasites on a single stalk attachment


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CMFRI Poster No.36/2017