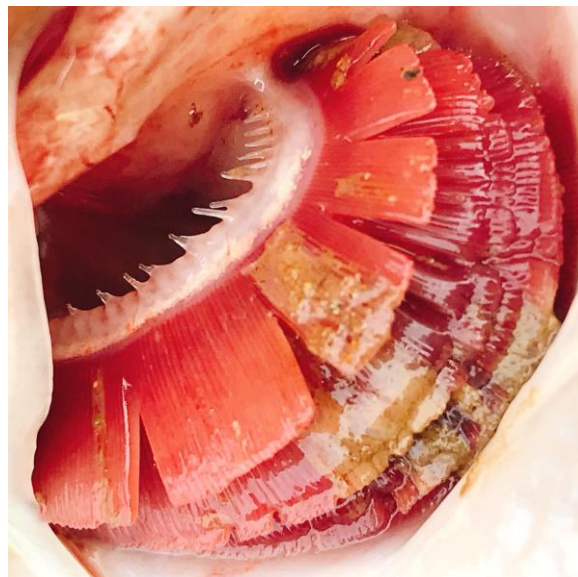


MAEJO UNIVERSITY

SSNS Training Course #1: Tilapia Health Management

Background

Tilapia farming is expanding because of the intensification of production systems, market demand, and investments. Fish diseases constrain production, with resultant socio-economic impacts for individuals, communities and economies which rely on aquaculture (Adam and Gunn, 2017). Although tilapia are considered to be relatively resistant to diseases encountered (Del-Pozo et al., 2017), but, a number of bacterial, fungal, protozoan and parasitic diseases have been reported in these fish (FAO, 2005). *Streptococcus* spp. and *Flavobacterium columnare* infection are the most common pathogens. Recent emergence of Tilapia Lake Virus (TiLV) disease has caused mass-scale mortalities and big economic losses. To assist the industry in improving health management they need to understand the production systems, possible risks and pathways for pathogen transmission. Identification of disease causing organism and some treatment interventions will lead to improvements in the health status of tilapia farms thereby saving from losses.



Learning outcome

- Enhanced knowledge and understanding about importance of tilapia health management and diseases
- Ability to develop a measure for tilapia disease prevention

Lectures – 3 hours – Classroom

1. Tilapia health issues,
2. Tilapia disease diagnosis and treatment
3. Calculation of chemical and antibiotic treatment

Practical – 16 hours (6+6+3+1) – Laboratory



- Fish Parasite Diagnosis
- Fish Bacteria Diagnosis
- Fish disease prevention and treatment
- Chemical and antibiotic calculation

Presentation of results by the group of students (Seminar Room)

- Techniques and lessons learned
- Wrap-up by Instructor (1 hour)
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Feedback and evaluation by students / participants

Resource persons: Assoc.Prof.Dr. Chanagun Chitmanat