

Developing a National Action Plan on TiLV Myanmar

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Elements of the NAP on TiLV

- Myanmar aquaculture (freshwater fish) – 95%
- Indigenous carp, rohu – around 70 %
- Mrigal and catala carps – 20%
- pangasius, tilapia, grass carp, common and silver carps, bighead carp, snakehead, catfish, sea bass – 10%
(not much intensive)

Tilapia Farming

- There has an intensive monoculture of Tilapia in Nyaung Thar Village, Bago Township.
- Used half-acre and one –acre ponds, stocked with 10,000 fingerlings per acre.
- To help develop small-scale farming of tilapia, WorldFish has provided quality seed of [Genetically Improved Farmed Tilapia](#) (GIFT) to the Department of Fisheries (DoF) in Myanmar.



Diagnostic laboratories and competence

- Laboratory of Fish Health Section (Department of fisheries)
- Laboratory of Aquatic Bioscience (University of Yangon)



Available diagnostic tests

- Checking of presence or absence of disease for imported aquaculture species
- Molecular tests
- Histopathology
- In some cases, in cooperation with Japan



Surveillance : design and implementation

- Aim of Surveillance
 - To investigate presence/absence of TiLV in wild and farmed fish
 - To secure early detection of TiLV
- Definition of population
 - All susceptible fish species (all stages) in rivers and lakes, Nile tilapia, Mozambique tilapia, blue tilapia.
 - All farmed susceptible fish species.



Case Definition

- **Suspect TiLV case:** positive finding of TiLV pathology in the liver organ.
- **Suspect TiLV location/farm:** **Bago Township**
- **Confirmed TiLV case:** Histopathology or viral isolation or PCR.
- **Confirmed TiLV location/farm:** **None**

Clustering of Disease

- January to June



Disease Outbreak Investigation

- Active surveillance
- Communication
- Control measures
- Survey and research
- Collaboration with other organization



TiLV management and control

- High mortality
- National level

- Protecting the entry of TiLV in every aspects
- Sufficient workers, experts and high techniques for prevention and surveillance
- According to our government's national plan to improve tilapia culture, developing strategies for disease prevention will be accomplished.

References

- <https://fish.cgiar.org/content/improved-tilapia-seed-arrives-in-myanmar>
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- FAO 2014
- epi.publichealth.nc.gov/cd/lhds/manuals/cd/training/Module_1_1.6_ppt_OutbreakInvestigation.pdf
- <https://repository.seafdec.org.ph/bitstream/handle/10862/1690/Transboundary-Fish-Diseases-Myanmar>

THANK YOU

