Farm personnel should:

1. Not have visited other shrimp culture sites or facilities within the past 24 hours.
2. Change into a work uniform and foot gear before entry into areas where shrimp are raised.
3. Under some conditions, shower in addition to changing clothes, prior to entering the shrimp production facilities.

3. Monitor the presence of viruses by sending tissue samples regularly to a disease diagnostic laboratory.

**DURING DISEASE OUTBREAK**

1. Do not drain contaminated pond water.
2. Report immediately the disease outbreak to either:
   - SEAFDEC Dumangas Brackishwater Station, Dumangas, Iloilo
     Telefax no. (033) 527-3016
   - SEAFDEC Tigbauan Main Station, Tigbauan, Iloilo
     Telefax no. (033) 511-9029 (Attn: TVCD)

SEAFDEC will provide free diagnostic services to farms suspecting or experiencing outbreaks.

Tigbauan Main Station no. (033) 336-2965
Fish Health Lab mobile # 0918-387-3619

**AFTER DISEASE OUTBREAK**

To avoid recurrence:

1. Review your operations. Did you do GMPs? Were the biosecurity measures in place? Was your monitoring adequate?
2. Modify culture system (use of greenwater, reservoir; closed/semi-closed system; crop rotation; screening and filtration)

The above procedure during disease outbreak was worked out during the ‘Awareness on biosecurity aspects of common shrimp viral diseases forum’ held at SEAFDEC’s Dumangas Brackishwater Station on May 31, 2007 which was attended by 27 shrimp farmers and other sectoral representatives from Dumangas, Zarraga and Leganes.

© SEAFDEC/AQD
July 2007
Photos courtesy of TVCD and R. Usero
What is biosecurity?
Biosecurity is the practice of excluding specific pathogens from cultured aquatic stocks in the broodstock facilities, hatcheries, and farms, or from entire regions or countries for the purpose of disease prevention.

More viruses may be coming!
The tiger shrimp (Penaeus monodon) industry is already dealing with WSSV (white spot syndrome virus), and may deal with more when the culture of white shrimp (Litopenaeus vannamei) spreads. It is to be noted that the government has lifted the ban on the importation of L. vannamei on January 8, 2007. Importation is allowed for specific-pathogen free (SPF) broodstock only.

White shrimp culture in other countries has been hit by WSSV, taura syndrome virus, yellowhead virus, gill-associated virus, infectious hypodermal and hematopoietic necrosis virus, and infectious myonecrosis virus.

Although SPF broodstock are imported into the Philippines, the fry from the “SPF” broodstock is at best considered “high health.” Also, the SPF status is lost as soon as the imported shrimp come out of its production facility as they are now in a new or different environment that have natural viral populations.

Bear in mind that tiger shrimp and white shrimp belong to the same family of penaeid shrimps. What virus there is in one may infect the other.

Don’t let pathogens in. But how?
Prevent diseases by good management practices.
Prevent the entry of viruses through biosecurity measures.
Have a disease diagnostic laboratory regularly monitor your farm.

There is no known cure for viral diseases
Once infected, don’t allow a virus carrier to stay on the farm.
Don’t spread the virus either to neighboring farms.
Follow the steps on what to do during a disease outbreak.

Use good quality fry (or WSSV-negative fry as certified by a disease diagnostic lab)

Provide settling and treatment pond
Provide reservoir with fish (tilapia is popular)
Provide a filtration system

Before disease hits your farm

1. Observe GMP or good management practices
2. Install biosecurity measures

Tire bath at the farm entrance
Footbath and hand disinfection at the pond entrance
Nets and high-density polyethylene liners as crab fence
Bird scaring device
Individual paraphernalia (feeding trays and boat, secchi disc, refractometer, basins, sampling materials) for each pond

Downloaded by [Anonymous] from http://repository.seafdec.org.ph on May 25, 2019 at 12:07 AM CST