

- The main aim of OIE is to ensure the sanitary safety of international trade in live animals and their products.
- This includes providing standards and guidelines on the health measures to be used by the Aquatic Animal Health Services of importing and exporting countries to prevent the transfer of agents pathogenic for aquatic animals, while avoiding unjustified trade barriers.



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The OIE standards applicable to international trade in aquatic animals and their products are laid out in the OIE Aquatic Animal Health Code and in the OIE Manual of Diagnostic Tests for Aquatic Animals.



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Developing the OIE standards for aquatic animals is the role of the

Aquatic Animal Health Standards Commission













Some of the information available in the Aquatic Code

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Contents of the Aquatic Code OiC

General Provisions (Horizontal issues)

- · User's guide
- Glossary
- · Section 1 : Animal disease diagnosis, surveillance and notification
- · Section 2 : Risk analysis
- · Section 3: Quality of Aquatic Animal Health Services
- Section 4 : General recommendations : disease prevention and control
 - Zoning/compartmentalisation
 - Recommendations on disinfection
 - Contingency planning
 - Fallowing in aquaculture
 - Handling, disposal and treatment of aquatic animal waste

Contents of the Aquatic Code OiC

General Provisions (contd)

- Section 5 : Trade measures, import/export procedures and health certification
 - General obligations
 - Certification procedures
 - Criteria to assess safety of aquatic animal commodities
 - Border posts and quarantine stations
 - Model veterinary certificates.
- · Section 6 : Veterinary Public Health
 - Control of aquatic animal health hazards in aquatic animal feed
 - Antimicrobials: prudent use/monitoring/ controlling resistance (under development)
- · Section 7 : Welfare of Farmed Fish
 - Transport
 - Stunning and killing for human consumption
 - Killing for disease control purposes (under development)

Contents of the Aquatic Code ()ie

Disease specific chapters

(OIE listed diseases - of importance to international trade)

- Section 8: Diseases of Amphibians
- · Section 9 : Diseases of Crustaceans
- · Section 10 : Diseases of Fish
- Section 11: Diseases of Molluscs

Critically important



- OIE Delegates should realise and accept their responsibility to participate actively in the debate and setting of international standards
- Once a standard is adopted the Delegate is obligated to support the adopted standard
- Focal points have an important role in the standard setting procedure, through the preparation of comments for the Delegate for new or revised OIE standards



- Aquaculture means the farming of aquatic animals with some sort of intervention in the rearing process to enhance production, such as regular stocking, feeding, protection from predators, etc.
- Aquaculture establishment means an establishment in which fish, molluscs or crustaceans for breeding, stocking or marketing are raised or kept.

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• Aquatic Animal Health Services means the governmental and non-governmental organisations that implement animal health and welfare measures and other standards and recommendations in the Aquatic Code in the territory. The Aquatic Animal Health Services are under the overall control and direction of the Competent Authority. Private sector organisations, veterinarians, aquatic animal health professionals or veterinary paraprofessionals are normally accredited or approved by the Competent Authority to deliver the delegated functions.

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• Competent Authority means the Veterinary Authority or other Governmental Authority of a Member having the responsibility and competence for ensuring or supervising the implementation of aquatic animal health and welfare measures, international health certification and other standards and recommendations in the Aquatic Code in the whole territory.

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Veterinary Authority means the Governmental of an OIE Member, comprising Authority veterinarians, other professionals and parahaving the responsibility professionals, competence for ensuring or supervising implementation of aquatic animal health and welfare measures, international aquatic animal certification and other standards recommendations in the Aquatic Code in the whole territory.

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- Aquatic animal health status means the status of a country, zone or compartment with respect to an aquatic animal disease, according to the criteria listed in the relevant chapter of the Aquatic Code dealing with the disease.
- Aquatic animal products means non-viable aquatic animals and products from aquatic animals.

 Aquatic animals means all life stages (including eggs and gametes) of fish, molluscs, crustaceans and amphibians originating from aquaculture establishments or removed from the wild, for farming purposes, for release into the environment, for human consumption or for ornamental purposes.

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- Basic biosecurity conditions means a set of conditions applying to a particular disease, and a particular zone or country, required to ensure adequate disease security, such as:
 - a. the disease, including suspicion of the disease, is compulsorily notifiable to the Competent Authority; and
 - b. an <u>early detection system</u> is in place within the zone or country; and
 - c. <u>import requirements</u> to prevent the introduction of disease into the country or zone, as outlined in the Aquatic Code, are in place.

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• Biosecurity plan means a plan that identifies significant potential pathways for the introduction and spread of disease in a zone or compartment, and describes the measures which are being, or will be, applied to mitigate the risks to introduce and spread disease, taking into consideration the recommendations in the Aquatic Code. The plan should also describe how these measures are audited, with respect to both their implementation and their targeting, to ensure that the risks are regularly re-assessed and the measures adjusted accordingly.

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- Certifying official means a person authorised by the Competent Authority to sign health certificates for aquatic animals.
- Commodity means aquatic animals, aquatic animal products, biological products and pathological material.

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- Commodity means aquatic animals, aquatic animal products, <u>biological products</u> and pathological material.
 - a.biological $\underline{\text{reagents}}$ for use in the diagnosis of certain diseases;
 - b.sera for use in the prevention and treatment of certain diseases;
 - c.inactivated or modified <u>vaccines</u> for use in preventive vaccination against certain diseases;
 - d.genetic material of infectious agents
 - e.endocrine tissues from fish or used in fish.

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- Commodity means aquatic animals, aquatic animal products, biological products and <u>pathological</u> material.
 - means samples obtained from <u>live or</u> <u>dead</u> aquatic animals, containing or suspected of containing pathogenic agents, to be sent to a laboratory.

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Compartment means one or more aquaculture establishments under a common biosecurity management system containing an aquatic animal population with a distinct health status with respect to a specific disease or diseases for which required surveillance and control measures are applied and basic biosecurity conditions are met for the purpose of international trade. Such compartments must be clearly documented by the Competent Authority(ies).

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- Zone means a portion of one or more countries comprising:
 - a. an entire water catchment from the source of a waterway to the estuary or lake, or
 - b. more than one water catchment, or
 - c. part of a water catchment from the source of a waterway to a barrier that prevents the introduction of a specific disease or diseases, or d. part of a coastal area with a precise geographical delimitation, or e.an est
 - that consists of a contiguous hydrological system with a distinct health status with respect to a specific disease or diseases. The zones must be clearly documented (e.g. by a map or other precise locators such as GPS co-ordinates) by the *Competent Authority(ies)*.

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- Zone means a portion of one or more countries comprising:
 - a. an entire water catchment

means an area or basin of land bounded by natural features such as hills or mountains, into which all run-off water flows.

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- Egg means a <u>viable</u> fertilised ovum of an aquatic animal. 'Green eggs' means newly fertilised ova of fish. 'Eyed eggs' means eggs of fish where the eyes of the embryo are visible and that the eggs may be transported.
- Gametes means the <u>sperm or unfertilised eggs</u> of aquatic animals that are held or transported separately prior to fertilisation.

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- Feed means any material (single or multiple), whether processed, semi-processed or raw that is intended to be fed directly to aquatic animals.
- Feed ingredient means a component, part or constituent of any combination or mixture making up a feed, including feed additives, whether or not it has a nutritional value in the animal's diet. Ingredients may be of terrestrial or aquatic, plant or animal origin and may be organic or inorganic substances.

- Live feed means live farmed or wild caught animals and algae used as feed for aquatic animals. Live feed is often fed to aquatic animal species at an early lifestage and to aquatic animal species that have been cultured for a relatively short time.
- Meal means a product derived from an aquatic animal that has been ground and heat processed to reduce the moisture content to less than 10%.

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• Fallowing means, for disease management purposes, an operation where an aquaculture establishment is emptied of aquatic animals susceptible to a disease of concern or known to be capable of transferring the pathogenic agent, and, where feasible, of the carrying water. For aquatic animals of unknown susceptibility and those agreed not to be capable of acting as carriers of a disease of concern, decisions on fallowing should be based on a risk assessment.

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- Incidence means the number of new outbreaks of disease within a specified period of time in a defined aquatic animal population.
- Prevalence means the total number of infected aquatic animals expressed as a percentage of the total number of aquatic animals in a given aquatic animal population at one specific time.

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- Sensitivity means the proportion of <u>true positive</u> tests given in a diagnostic test, i.e. the number of true positive results divided by the number of true positive and false negative results.
- Specificity means the probability that absence of infection will be correctly identified by a diagnostic test, i.e. the number of <u>true negative</u> results divided by the number of true negative and false positive results.

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 Outbreak means an occurrence of one or more cases in an epidemiological unit.



 Outbreak means an occurrence of one or more <u>cases</u> in an epidemiological unit.

Case means an <u>individual aquatic animal</u> infected by a pathogenic agent, with or without clinical signs.

A <u>case definition</u> is a set of criteria used to distinguish a case animal or an epidemiological unit from a non-case.

 Outbreak means an occurrence of one or more cases in an epidemiological unit.

means a group of animals that share approximately the same risk of exposure to a pathogenic agent within a defined location. This may be because they share a common aquatic environment (e.g. fish in a pond, caged fish in a lake), or because management practices make it likely that a pathogenic agent in one group of animals would quickly spread to other animals (e.g. all the ponds on a farm, all the ponds in a village system).

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- Infection means the presence of a multiplying or otherwise developing or latent pathogenic agent in a host. This term is understood to include infestation where the pathogenic agent is a parasite in or on a host.
- Infective period means the longest period during which an affected aquatic animal can be a source of infection.

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- Protection zone means a zone established to protect the health status of aquatic animals in a free country or free zone, from those in a country or zone of a different aquatic animal health status, using measures based on the epidemiology of the disease under consideration to prevent spread of the pathogenic agent into a free country or free zone. These measures may include, but are not limited to, vaccination, movement control and an intensified degree of surveillance.
- Quarantine

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- Protection zone means a zone established to protect the health status of aquatic animals in a free country or free zone...
- Quarantine means maintaining a group of aquatic animals in isolation with no direct or indirect contact with other aquatic animals, in order to undergo observation for a specified length of time and, if appropriate, testing and treatment, including proper treatment of the effluent waters.

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- Surveillance means a systematic series of investigations of a given population of aquatic animals to detect the occurrence of disease for control purposes, and which may involve testing samples of a population.
- Target population means, for the purposes of demonstrating freedom from infection, the population of interest, usually made up of all aquatic animals of species susceptible to a specified pathogenic agent in a defined country, zone or aquaculture establishment.

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- Surveillance
- Target population
- Targeted surveillance means surveillance targeted at a specific disease or infection.

