

NOTIFICATION PROCEDURE

Aquatic Animal Diseases 2015





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INTRODUCTION

This procedure is aimed at helping OIE Member Countries to better fulfil their obligations arising from Articles 1.1.3. and 1.1.4. of <u>Chapter 1.1.</u> of the *Aquatic Animal Health Code* (2014 Edition) and related to the immediate notification and follow-up reports to be submitted following any **exceptional epidemiological event** occurring in their countries.

An **event** is a single or group of epidemiologically related outbreaks for a given disease or infection. The event includes all related outbreaks reported from the time of the immediate notification through to the final report. In a situation where there is no further spread, an event can be limited to a single outbreak. An event should be serotype/strain specific when appropriate.

The list of notifiable aquatic animal diseases adopted by the OIE World Assembly of Delegates in May 2014 came into effect in January 2015 (see Article 1.2.2. of <u>Chapter 1.2.</u> "Criteria for listing an aquatic animal disease").

This procedure is mainly intended for OIE Focal Points for disease notification appointed by Member Countries' Delegates to get used to the notification process – either using the paper form or the WAHIS online notification application – in order to provide the OIE Headquarters with aquatic animal health information as per the requirements for immediate notification and follow-up reports, which constitute the basis for the OIE Early Warning System.

So as to provide the information in a timely and efficient manner, Member Countries are encouraged to use the WAHIS online notification application (https://www.oie.int/wahis/) and are asked to use the paper form only if they have real difficulties in accessing WAHIS due to recurrent internet connection problems.

This procedure was originally created as a tool for the notification using the paper form (please see pages 9 to 11) but it can now serve also as a guide for the right use of the online application. If you have any question or proposal concerning this procedure or the notification process itself, please contact the World Animal Health Information and Analysis Department at information.dept@oie.int.

Notification of animal health information by Member Countries occurs through their respective Veterinary Animal Health Services. However, in some Member Countries, a national Authority other than the National Veterinary Services is responsible for aquatic animal health matters. In your role as Delegate of your country to the OIE, it is important that a Delegate of a country to the OIE make sure that information on aquatic animal diseases is properly provided to the OIE, even if aquatic animal health is not dealt within the Veterinary Services and is not under your direct responsibility. In the latter case, a strong liaison with the relevant Competent Authority for aquatic animal health in your country is essential to ensure a smooth flow of information on aquatic diseases to the OIE and from the OIE to the rest of the world.

Delegates are requested to give access to WAHIS to National Focal points for aquatic animals, so that they can complete the information directly.

IMMEDIATE NOTIFICATION OR FOLLOW UP REPORT

To print out this form in A4 format using Microsoft Word, open the *File* menu and select *Print*. In the Print window, open the menu *Scale to paper size* and choose *A4*.

A single paper form can be used in different epidemiological situations. Determining which parts of the form need to be filled in will depend on the reason for immediate notification. Special attention should be taken to fill the form only in the required parts, since, unlike the WAHIS online notification application, no controls exist to avoid mistakes in the paper form.

The printed form consists of three pages. You may add additional lines to the form as the need arises. When filling in the form, it is important to comply with the instructions given on pages 13 to 17 of this procedure and beforehand determine what information is required. This is essential in order to achieve consistency and harmonisation of the information provided by all Member Countries.

As mentioned before, explanations can also be very useful when using the online notification application. It is important to read and take into account these explanations in order to avoid any ambiguity or incoherence in the information provided and any subsequent misinterpretation of the data, whether by the OIE Headquarters or by WAHIS interface end users. The information provided should therefore be as precise and concise as possible.

AQUATIC ANIMALS

IMMEDIATE NOTIFICATION OR FOLLOW-UP REPORT OF A DISEASE, INFECTION OR OTHER SIGNIFICANT EPIDEMIOLOGICAL EVENT

Type of report	Immediate notification	Follow-up report Number:						
1. Report date (dd/mm/yyy			;	2. Country				
	у)			Country				
3. Name of reporting Author	itv	4. Address						
1	ity	Hudress						,
5. Position of reporting Auth	ority	Address (contd)						
	Contry	riddress (contd)						
6. Telephone	7 Fax	8	. L E-mail					
reiephone	Tax		15-111811					
9. Reason for immediate r	notification of diseases listed by the OIE (tick one):						
	listed disease in a country, a zone or a compartment							
	ted disease in a country, a zone or a compartment foll		he outbreak ended.	Date o	of last occurrence:			
	new strain of a pathogenic agent of a listed disease in a							
	cted change in the distribution or increase in incidence	e or virulence of, or morbidity or mo	ortality caused by the pa	athogenic agent of a liste	ed disease, present with	in a country, a zone or	a compartment	
	l disease in a new host species							
Reason for immediate r	notification of diseases not listed by the OIE:							
f. An emerging disease i	n a country, a zone or a compartment							
10. The notification applies	s to: A zone or compartm	nent	The whole coun	try				
11.								
Disease name, name of pa	athogen							
12.								
Precise identification of a	gent (strain, etc.) where possible	ζ ()	,					
13.								
	and scientific (Latin) names							
14. Date (dd/mm/yyyy) of co	onfirmation of the event 15/ Date (dd/m	nm/yyyy) of start of the event		16. Clinical diseas	e Yes	No		
17. Nature of diagnosis	Suspicion Clinical	Necropsy	Basic laboratory tests bacteriology, mycolo			ed laboratory tests (e.g microscopy, molecula	g. virology, ar biology, immunology	7)
18. If the reason for notific	ation is 9d.							
					Change			
First administrative div	Host Species			e incidence*	in mor		in mor	•
i not administrative div		in disease distribution		to 5 scale	% or 1 t		% or 1 to	
	Latin Name Commo	on Name	Previous level	Current level	Previous level	Current level	Previous level	Current level

^{*} Choose quantitative (%) or qualitative (1 to 5) scale

19. If the reason for notification is 9f. =>	Morbidity rate (% or	1 to 5 scale)	Mortality rate (% or 1	to 5 scale)	Zoonotic p	ootential (describe)							
20. Details of outbreak(s) by first administrative	e division												
	Number of Top and						use:	ıse: e		Numb in th	per of anime outbrea	mals* ik(s)	
First administrative division administrative division	outbreaks epidemiological	Name of the locatio (e.g. lake, bay, village	-	Longitude	Date of start of the outbreak	Date of end of the outbreak	If clinical disease: morbidity rate	If clinical disease: mortality rate	susceptible	cases	deaths	destroyed	slaughtered
* If number of animals cannot be given, estimate th	e biomass (in kilogrammes or to	nnes). If several units (e.	g. ponds, cages) are at	ffected, provi	de details for each	in a separate row.							
Parming system (Tick one)*: * open: for example, wild fishery; semi-open: for the open of the open of the open open.	Farmed Marine Open or example, marine net cages; ser	Wild Fresh water Semi-open mi-closed: for example, p	r	Brackish wate Semi-closed osed: for exan		Closed							
			1									75	75
	ak(s) or origin of infection as appropriate)		KBI.	23.		Control m (tick as app						Applied	To be applied
Introduction of new live aquatic animals			5		l of vectors								
Introduction of new non-viable aquatic animal	products				of wildlife reserv	oirs							
Legal movement of animals) >		g /Spraying ction/Disinfestati	on							
Illegal movement of animals Aquatic animals in transit			-		ency harvest	OII							
Contact with infected neighbouring establishm	ent				ed stamping out								
Feeding raw aquatic animal product	CIII		_		ent control inside	the country							
Fomites (humans, vehicles, feed, etc.)		<u> </u>			destruction of an	<u> </u>							
Horizontal spread through water			-	Official	disposal of carcas	sses, by-products and was	te						
True vertical spread (through infected eggs or gametes)			-	Quaran	tine								
False vertical spread (through contaminated eggs or gametes)			-	Screenin	ng								
Contact with wild species	<u>- </u>		1	Stampir	ng out								
Other		1		Surveilla	ance outside conta	ainment and/or protection	n zone						
			_	Traceab	oility								
				Vaccina	ntion in response t	to the outbreak(s)							
				Zoning									

24.	Vaccination in response to the outbreak(s)					_	
	First administrative division	Species	Total vaccinated		ails on the vaccine ed; mono- or polyvalent, etc.)		
25		V.	NI 🗔				
<i>2</i> 5.	Treatment of infected animals If "yes", describe nature of treatment	Yes	No				
26.	Vaccination prohibited	Yes	No				
							
27.	Other epidemiological information / comme	ents					
				XO y			
28	Laboratory(-ies) where diagnosis was made		(2)				
20.	Name of laboratory	Type of la		Species 30.	Diagnostic tests used	Date results provided	Result
				exammed		provided	
31.	Final report No						
	Yes If "	Yes "=> Event ended	No => Continuing r	notification using the six-monthly	report		
		100 - Livelit clided		has become sufficiently stable)			
				of end of the event if the notified on closed one by one	outbreaks		
			Have Hot been	ir closed one by one			

HOW TO COMPLETE THE FORM

(Please follow these instructions carefully and read the definitions before processing the information).

Indicate the type of report by ticking "Immediate notification" or "Follow-up report". For follow-up reports indicate the number ("1" for the first follow-up report, "2" for the second, etc.) or "F" for the final report.

1. Report date: the date when the report is created.

Important: the submission date should be as close as possible to the date when the report was created.

- **2-8.** Complete details of the **reporting Authority**.
- 9. Reason for immediate notification (tick one box only).

If the reason for immediate notification is "9b" (re-occurrence of a listed disease in a country, a zone or a compartment following the final report that declared the outbreak ended), you should indicate the date of last occurrence of the disease or infection. The date of last occurrence is the date when the last event for the reported disease was declared resolved.

Important:

- This date should not be changed in the subsequent follow-up reports pertaining to the same event.
- This date refers to the last event of the disease, regardless the strain, the zone and the species (domestic species and wildlife).
- **10.** Indicate if the event applies to a **zone / compartment** or the **whole country**.

Important:

- The option "whole country" should be chosen when it is the first historical occurrence of the disease in your country, even if the reported event is limited to a single zone.
- A first occurrence in a zone would mean that the disease was previously present in your country in another zone.
- 11. Indicate the **disease name** or, in the case of an infection, the name of the pathogen. Names of OIE-listed aquatic animal diseases are given in Chapter 1.3. of the *Aquatic Animal Health Code* (2014 version).

In the case of an **emerging disease**, insert the name of the disease and the causal agent. When the causal agent is unknown, use the clinical signs that best describe the event (e.g. kidney syndrome) to name the disease.

- **12.** Where possible, identify precisely the agent (strain, genotype, etc.).
- **13. Host species**: indicate the host species name (common and Latin name), e.g. Pacific oyster (*Crassostrea gigas*) or Atlantic salmon (*Salmo salar*). Some examples are given in pages 22 and 23.
- **14. Date (dd/mm/yyyy) of confirmation of the event:** the date when the event was confirmed by the Competent Authority.

Important: in follow-up reports, this date should not be changed unless new information shows that the event was confirmed prior to the date given in the immediate notification.

Date (dd/mm/yyyy) of start of the event: the date when the first case of the first outbreak was observed as a first manifestation of a disease as observed by the breeder or the date estimated according to the epidemiological investigation.

Important:

- If the exact date is not known, please provide an estimated date.
- In the immediate notification, this date will be the same as the date of start of the first reported outbreak.
- In follow-up reports, this date should not be changed unless evidence clearly shows that the event started before the date given in the immediate notification. Any changes should be communicated to the OIE in order to rectify previous report(s).
- For a subclinical infection, the date of the first collection of samples which resulted in positive results can be an estimate of the date of start of the event.
- 16. Tick 'Yes' for the presence or 'No' for the absence of clinical disease, in which case the notification is for an **infection without clinical signs**.
- **17. Nature of diagnosis**: tick one or more boxes, as appropriate.

Important:

- When the event concerns an infection without clinical signs, only tick the laboratory boxes.
- If the pathogen has already been confirmed, do not tick the "Suspicion" box.
- 18. Fill in this part if the reason for immediate notification is described in 9d (a sudden and unexpected change in the distribution or increase in incidence or virulence of, or morbidity or mortality caused by the pathogenic agent of a listed disease, present within a country, a zone or a compartment).
 - Please indicate the name of the first administrative division only (e.g. Province, State, Governorate, County, Mouhafadhat) and fill in the rest of the table for each affected first administrative division. Then go to section 21.
 - Choose quantitative (%) or qualitative (1 to 5) scale to indicate the change in the incidence or morbidity.
- 19. Fill in this part only if the reason for immediate notification is 9f (an emerging disease detected in a country, a zone or a compartment).

Indicate the morbidity rate (% or 1 to 5 scale) and mortality rate (% or 1 to 5 scale) and describe, when appropriate, the zoonotic potential. Then go to section 20.

20. Details of outbreak(s) by first administrative division

This section must be completed for all reasons for notification, except reason 9d.

In all cases, indicate the name of the first administrative division where the event is occurring (Province, State, Governorate, County, Mouhafadhat). The name of lower administrative divisions where the event is occurring should also be given. At least the subunit of the first administrative division (e.g. district) should be mentioned.

The OIE Headquarters strongly recommends countries to provide information outbreak-by-outbreak within each affected first administrative division.

Cluster: group of 30 outbreaks or more epidemiologically related and closely grouped in time and place within the same first administrative division (Province, State, Governorate, County, Mouhafadhat, etc.).

Upload function using a CSV file: an upload function is available in the WAHIS online notification application that enables to download outbreak data in the follow-up reports from a « CSV » file format to be extracted from Members national database, if their contents are compatible. Please contact the World Animal Health Information and Analysis Department at information.dept@oie.int for more details on this.

Indicate the type of **epidemiological unit** (river system, lake/reservoir, coastal area, estuary, shellfish bed, etc.) and the name of the location where the event is occurring (lake, bay, river, farm, etc.).

Each outbreak should be georeferenced with **coordinates** enabling it to be located on a map. The latitude (North and South) and longitude (East and West) must be expressed in either:

- a) decimal format: e.g. Achill Sound, county of Mayo, Ireland (53,929 North 9,932 West);
- b) DMS (degrees, minutes and seconds: *dd° mm' ss"*): e.g. Dungeness bay, Washington, United States of America (48° 09' 00'' N 123° 07' 00'' W).

If the exact coordinates are not known, please provide an estimate.

The **date of start of the outbreak** is the date when the first case of this outbreak was observed as a first manifestation of a disease as observed by the breeder, or the date estimated according to the epidemiological investigation.

Important:

- If the exact date is not known, please provide an estimated date.
- For a subclinical infection, the date of the first collection of samples which resulted in positive results can be an estimate of the date of start of the outbreak.

The date of start should be registered for each outbreak. If clinical disease occurs, please indicate for each category the requested information on animals in each outbreak.

For outbreaks that have been controlled, indicate the **closing date** of the outbreaks.

The **date of end of the outbreak** is the date when the outbreak is considered resolved by the Competent Authority.

Important: It could refer to the date when the last case was eliminated, or the date on which the last animal was destroyed or slaughtered or the last date of cleaning and disinfection or the date when all the measures to eradicate the disease have proven to be effective for the concerned outbreak.

Date of end of event: The date of the end of the last resolved outbreak for this event.

For each outbreak, enter the concerned species using the species codes listed on page 18 and enter the number(s) of animals by species.

- Species: use the aquatic animal species codes given on page 18.
- ◆ Susceptible animals: animal(s) (measured in animals, tonnes or kilograms) in on-going active outbreak(s) during the reporting period.

Important:

- If the exact number or mass (kilograms or tonnes) is not known or estimation is not possible, please leave the box empty on the online notification application WAHIS or indicate "..." on the paper form.
- Usually, for wild species, the field "susceptible animals" should be left empty on the WAHIS online notification application and indicated with "..." on the paper form, since it is hard to evaluate the exact number of the wild population at risk unless the data is known.

◆ Cases: animal(s) (measured in animals, tonnes or kilograms) infected, with or without clinical signs, including animals that died from the disease.

Important:

- If the exact number or mass (kilograms or tonnes) is not known, please leave the box empty on the WAHIS online notification application or indicate "..." on the paper form.
- When a notification concerns an infection (without clinical signs): this number cannot be 0, the number of cases of infection is the number of positive animal or the number of positive samples.
- ◆ **Deaths**: animal(s) (measured in animals, tonnes or kilograms) that died from the disease.

Important: if the exact number or mass (kilograms or tonnes) is not known, please leave the box empty on the WAHIS online notification application or indicate "..." on the paper form.

◆ **Destroyed**: animal(s) (measured in animals, tonnes or kilograms) killed for disease control purposes and subjected to disposal.

Important:

- To avoid double counting, this number should not include animals that died from the disease and were then disposed.
- If the exact number of killed animals or mass (kilograms or tonnes) is not known, please leave the box empty on the WAHIS online notification application or indicate "..." on the paper form.
- Refer to Chapter 4.6 of the Aquatic Animal Health Code for disposal methods.
- ♦ **Slaughtered**: animal(s) (measured in animals, tonnes or kilograms) that were killed for disease control purposes with no or partial restrictions on the use of the aquatic animal products.

Important: this number should not include animals that died from the disease or animals killed for disease control purposes and subjected to disposal.

21. Description of the affected population(s) in the outbreak: give a description of the various categories of animals present in the outbreak (farmed or marine; salt, brackish or fresh water, open or semi-open farming system, etc.).

Important: for epidemiological comments on the event as a whole, please go to section 27.

Source of outbreak(s) or origin of infection: tick the appropriate boxes to indicate the source(s) of the outbreak(s) or the origin of infection.

Important:

- If the source of infection is not in the proposed list, enter the source in the "Other" box.
- If the source is unidentified, tick the "Unknown or inconclusive" box.
- **Control measures**: tick the appropriate boxes to indicate the control measures that have started or have already been undertaken and those that are going to be undertaken.

Important: in the WAHIS online notification application, control measures that are not relevant for the disease you are reporting cannot be selected.

Definitions of control measures are given on pages 19 and 20.

24. Vaccination in response to the outbreak(s): total number of animals (measured in animals, tonnes or kilograms) that were vaccinated as a control measure in response to the outbreak(s).

Important:

- This number includes emergency, targeted and ring vaccination during the reporting period, and excludes vaccination undertaken as part of a routine vaccination programme.
- If more than one species have been vaccinated, indicate the number of animals vaccinated for each species.
- Details of the vaccine should be given, such as: live (attenuated) or inactivated (killed) vaccine; monovalent or polyvalent vaccine; antigenic type.
- **25. Treatment of infected animals**: means that the animals involved in the outbreak(s) are curatively treated of the disease (antibiotics, antiparasitics, etc.). Supportive treatment is not applicable in this case.

Important:

- If animals are treated, the nature of the treatment should be specified.
- For veterinary medicinal products, please indicate only the name of the active principle and not the names of commercial drugs.
- **Vaccination prohibited**: as a general control policy, the use of a vaccine to control or prevent the disease is prohibited.

Important: tick the "No" box when no vaccine exists for the disease you are reporting.

27. Other epidemiological information / comments

In this section, please provide any other relevant information, in relation with additional epidemiological details or control measures (e.g. composition and size of the surveillance zone, the buffer zone, etc.) or any other useful information in relation with the event.

Important: do not include here the "description of the affected population" in each outbreak.

28. Laboratory(ies) where diagnosis was made

For each laboratory where the diagnosis was made, state the full name (not only the acronym), the city and the country and indicate the type of laboratory (OIE Reference laboratory, Regional reference laboratory, National laboratory, Local laboratory, Private laboratory or Foreign laboratory).

- **29. Species examined:** please, indicate the aquatic animal species examined.
- **30. Diagnostic test used**: wherever possible, use the terms listed on page 21 or refer to the *Manual of Diagnostic Tests for Aquatic Animals* (http://www.oie.int/en/international-standard-setting/aquatic-manual/access-online/). Laboratory results and their date(s) must be given.
- **31. Final report**: for all events notified through an immediate notification and subsequent follow-up reports, a final report should be submitted. It should indicate whether the event has ended or, if not, that notification will continue by means of the six-monthly report.

The outbreaks can be closed one by one giving a date of end for each one at every moment during the reporting period or you can close the event (close all the outbreaks) at a single date when making a final report.

Important: the date of end of the whole event is the date of end of the last resolved outbreak.

AQUATIC ANIMAL SPECIES

Codes

Fig.	
Fishpis	
Wild fishpis (wild)	
Molluscsmol (wild)	
Wild molluscsmol (wild)	
Crustaceans cru	
Wild crustaceans cru (wild)	
Amphibiansamp	
Wild amphibiansamp (wild)	

DISEASE CONTROL MEASURES Definitions

MEASURES	DEFINITIONS		
Control of vectors	Implementing measures to control aquatic insect or any living carrier that transports an infectious agent from an infected individual to a susceptible individual or its food or immediate surroundings.		
Control of wildlife reservoirs	Measures to reduce the potential for wildlife to transmit the disease to farmed aquatic animals.		
Dipping / Spraying Application of chemicals to animals through the use of a dip (full or part immersion of the animal in the chemical) or spray (the chemical is sprayed Usually used to control parasites and potential vectors.			
Disinfection/Disinfestation	Application, after thorough cleansing, of procedures intended to destroy the infectious or parasitic agents of diseases of aquatic animals; this applies to aquaculture establishments (i.e. hatcheries, fish farms, oyster farms, shrimp farms, nurseries, etc.), vehicles and different equipment/objects which may have been directly or indirectly contaminated.		
Emergency harvest	Early harvest of aquatic animals at risk of infection.		
Modified stamping out	Application of only part of the measures described for "Stamping out" (e.g. slaughter of sick animals only).		
Movement control inside the country Measures aimed at avoiding the spread of the disease or infection country/zone/compartment due to the movement of animals or their production.			
Official destruction of animal products under the supervision of the Competent Authority to prevent spread of the disease or infection.			
Official disposal of carcasses, by-products and waste	Disposal of carcasses, by-products and waste under the supervision of the Competent Authority to prevent spread of the disease or infection.		
Quarantine	Infected animals and when appropriate, epidemiologically linked susceptible animals are kept isolated under the supervision of the Competent Authority until all sanitary measures considered necessary to control or eradicate the disease have been completed.		
Screening	Survey carried out within the framework of a control programme for the disease or infection for health qualification of aquaculture farms in all or part of the national territory		
Stamping out	Carrying out under the supervision of the Competent Authority, on confirmation of a disease, of preventive aquatic animal health measures, consisting of killing the aquatic animals that are affected, those suspected of being affected in the population and those in other populations that have been exposed to infection by direct or indirect contact of a kind likely to cause the transmission of the pathogenic agent. All these aquatic animals, vaccinated or unvaccinated, on an infected site should be killed and the carcasses destroyed by burning or burial, or by any other method that will eliminate the spread of infection.		
Surveillance outside containment and or the protection zone	Undertaking surveillance activities in parts of the country other than those defined as the containment or protection zone for the disease or infection being notified.		

MEASURES	DEFINITIONS				
Surveillance within containment and or the protection zone	Undertaking surveillance activities within the containment or protection zone for the disease or infection being notified.				
Traceability	Investigation of any epidemiological link of animals / animal products, in order to determine origin and spread of the disease or infection.				
Vaccination in response to the outbreak(s)	See page 17 – Point 24				
Vaccination prohibited	See page 17 – Point 26				
Zoning (Z)	Delineation (by regulatory means) of part of a country/territory containing an animal subpopulation with a distinct health status or risk with respect to a specific disease or infection for which required surveillance, control and biosecurity measures have been applied for the purpose of international trade.				

DIAGNOSTIC TESTS Examples

agar-gel immunodiffusion (AGID)
agar-gel precipitation (AGP) test
anatomo-pathological examination
antibody detection ELISA
antigen (Ag) detection ELISA
artificial digestion method
Ascoli test
bacteriological examination
Coggin's test
competitive ELISA (c-ELISA)
complement fixation test (CFT)
direct fluorescent antibody (FAT) test
direct immunofluorescence (DIF) test
DNA microarray
electroimmunotransfer blot assay (EITB)
electron microscopy
FLISA 3ABC
entomological investigations
enzyme immunoassay (EIA) membrane test
enzyme-linked immunosorbent assay (ELISA)
fluorescence polarisation assay (FPA)
fluorescent antibody virus neutralisation (FAVN)
gamma interferon test
gene sequencing
haemagglutination (HA) test
haemagglutination inhibition test (HIT)
high performance liquid chromatography (HPLC)
histological test
histopathological examination
identification by bacteriophage susceptibility
IgG-capture ELISA
IgM-capture ELISA
immune electron microscopy
immunocapture ELISA
immunoelectrophoresis test (IEPT)
immunohistochemical test
immunoperoxidase monolayer assay (IPMA)
immunoperoxidase procedure for differentiation of pestiviruses by monoclonal antibodies
in situ hybridisation (ISH)
indirect ELISA
indirect ELISA indirect fluorescent antibody (IFA) test
indirect indirescent antibody (IFA) test
inoculation test
וווטכעומנוטוו נכטנ
intracerebral pathogenicity index (ICPI) test

	intravenous pathogenicity index (IVPI) test			
	isoenzyme studies			
	liquid-phase (LP) blocking ELISA			
	luminescence immunoassay			
	mallein test			
	microagglutination test			
	microscopic agglutination test (MAT)			
microscopic examination of larvae				
monoclonal antibodies (Mab) test				
	nested RT-PCR			
	neuraminidase inhibition assay			
	non-structural protein ELISA			
	NPLA (Neutralising peroxidase-linked assay)			
	nucleotide sequencing			
	optical microscopy			
	parasitological examination			
	pathogen isolation by egg inoculation			
	pathogen isolation on cell culture			
	pathogenic agent isolation on culture			
	phylogenetic analysis; phylogenetic characterisation			
	of the virus			
	plaque reduction neutralisation test (PRN)			
	plate agglutination test			
	polyacrylamide gel electrophoresis (PAGE)			
	polymerase chain reaction (PCR)			
	rapid serum agglutination (RSA)			
	rapid tests			
	real-time PCR			
	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)			
	reverse transcription – polymerase chain reaction (RT-PCR)			
	rose bengal test (RBT)			
	Seller's test			
	seroneutralization test (SNT)			
	serotyping			
	solid-phase blocking ELISA			
	solid-phase competitive ELISA			
	tissue imprints			
	tube agglutination test (TAT)			
	tuberculin test			
	typing ELISA			
	virus isolation			
	virus neutralisation test (VNT)			
	virus sequencing			
	virus-infection-associated antigen (VIAA)			
	western blotting			

COMMON AND SCIENTIFIC (LATIN) NAMES OF SOME AQUATIC ANIMAL SPECIES SUSCEPTIBLE TO DIE-LISTED DISEASES

FISH

FISH	
Ameiurus nebulosus	Brown bullhead
Anabas testudineus	Climbing perch
Aplodinotus grunniens	Freshwater drum
Aristichthys nobilis	Bighead carp
Bidyanus bidyanus	Silver perch
Brevoortia tyrannus	Atlantic menhaden
Carassius auratus auratus	Goldfish
Carassius carassius	Crucian carp
Channa striatus	Striped snakehead
Ctenopharyngodon idellus	Grass carp
Cyprinus carpio	Common carp
Cyprinus carpio goi	Ghost carp
Cyprinus carpio koi	Koi carp
Esox lucius	Northern pike
Gadus aeglefinus	Haddock
Gadus macrocephalus	Pacific cod
Gadus morhua	Atlantic cod
Hepsetus odoe	African pike
Hypophthalmichthys molitrix	Silver carp
Leuciscus idus	Orfe
Moxostoma anisurum	Silver redhorse
Mugil cephalus	Striped mullet
Oncorhynchus keta	Chum salmon
Oncorhynchus kisutch	Coho salmon
Oncorhynchus mykiss	Rainbow trout
Oncorhynchus nerka	Sockeye salmon
Oncorhynchus rhodurus	Amago salmon
Oncorhynchus tshawytscha	Chinook salmon
Onos mustelus	Rockling
Osphronemus goramy	Giant gourami
Pagrus major	Red sea bream
Perca flavescens	Yellow perch
Perca fluviatilis	Redfin perch
Puntius gonionotus	Silver barb
Salmo salar	Atlantic salmon
Salmo trutta	Brown trout
Salvelinus alpinus	Arctic char
Salvelinus fontinalis	North American brook trout
Salvelinus namaycush	North American lake trout
Scaridinius erythrophthalmus	Rudd
Scatophagus argus	Spotted scat
Sciaenops ocellatus	Red drum
Seriola dumerili	Amberjack
Seriola quinqueradiata	Yellowtail
Silurus glanis	Sheatfish
Sinipercachuatsi	Mandarin fish
Stizostedion vitreum	Walleye
Thymallus thymallus	Grayling
Tinca tinca	Tench
Toxotes chatareus	Common archer fish
Trichogaster trichopterus	Three-spot gouramy

MOLLUSCS

MOLLOGO	
Crassostrea angulata	Portuguese oyster
Crassostrea ariakensis	Suminoe oyster
Crassostrea gigas	Pacific cupped oyster
Crassostrea virginica	American cupped oyster
Haliotis corrugata	Pink abalone
Haliotis cracherodii	Black abalone
Haliotis discus-hannai	Japanese abalone
Haliotis sorenseni	White abalone
Haliotis fulgens	Green abalone
Haliotis rufescens	Red abalone
Mercenaria mercenaria	Hard shell clam
Meretrix lyrata	White clam
Mya arenaria	Soft shell clam
Mytilus edulis	Blue or edible mussel
Mytilus galloprovincialis	Mediterranean mussel
Ostrea angasi	Australian mud oyster
Ostrea chilensis	Chilean flat oyster
Ostrea edulis	European flat oyster
Ostrea puelchana	Argentinean flat oyster
Ostrea denselammellosa	Asiatic oyster
Saccostrea glomerata	Sydney rock oyster
Tridacna maxima	Maxima clam

CRUSTACEANS

Austropotamobius pallipes	White clawed crayfish
Euphasia superba	Antarctic krill
Macrobrachium rosenbergii	Giant fresh water prawn
Metapenaeus ensis	Greasyback prawn
Penaeus aztecus	Northern brown shrimp
Penaeus duorarum	Northern pink shrimp
Penaeus esculentus	Brown tiger prawn
Penaeus japonicus	Kuruma prawn
Penaeus merguiensis	White banana prawn
Penaeus monodon	Giant tiger prawn or black tiger shrimp
Penaeus schmitti	Southern white shrimp
Penaeus setiferus	Northern white shrimp
Penaeus stylirostris	Blue shrimp
Penaeus vannamei	Whiteleg shrimp
Procambarus clarkii	Red swamp crawfish

AMPHIBIANS

74WI TII BII U G		
Bufo bufo	Common toad	
Bufo viridis	European green toad	
Leiopelma archeyi	Archey's frog	
Rana catesbeiana	American bullfrog	
Rana esculenta	Edible frog	
Rana pipiens	Northern leopard frog	
Rana ridibunda	Marsh frog	
Rana sylvatica	Wood frog	



This notification procedure is also available under the section "Disease notification documents" of the dedicated OIE Delegates web site https://web.oie.int/delegatesite/eng/manuels/en_manuels.php and under the section "Help-Manuals-FAQ" of the WAHIS online notification application