

**AQUATIC ANIMAL DISEASE REPORT - 2021**

Country/territory: **BANGLADESH**

Item	Disease status/occurrence code a/b/												Level of diagnosis	Epidemiological comment numbers
	Month													
FINFISH DISEASES	January	February	March	April	May	June	July	August	September	October	November	December		
<b>OIE-listed diseases</b>														
1. Infection with epizootic haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
2. Infection with infectious haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
3. Infection with spring viraemia of carp virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
4. Infection with viral haemorrhagic septicaemia virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
5. Infection with <i>Aphanomyces invadans</i> (EUS)	-	-	-	-	-	-	-	-	-	-	-	-		
6. Infection with red sea bream iridovirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
7. Infection with koi herpesvirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
<b>Non OIE-listed diseases</b>														
8. Grouper iridoviral disease	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
9. Viral encephalopathy and retinopathy	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
10. Enteric septicaemia of catfish	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
11. Carp Edema Virus Disease	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
12. Tilapia lake virus (TiLV)	0000	0000	0000	0000	0000	0000	0000	0000	0000	-	-	-		
<b>MOLLUSC DISEASES</b>														
<b>OIE-listed diseases</b>														
1. Infection with <i>Bonamia exitiosa</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
2. Infection with <i>Perkinsus olseni</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
3. Infection with abalone herpesvirus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
4. Infection with <i>Xenohalotis californiensis</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
5. Infection with <i>Bonamia ostreae</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
<b>Non OIE-listed diseases</b>														
6. Infection with <i>Marteilioides chungmuensis</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
7. Acute viral necrosis (in scallops)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
<b>CRUSTACEAN DISEASES</b>														
<b>OIE-listed diseases</b>														
1. Infection with Taura syndrome virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
2. Infection with white spot syndrome virus	-	-	-	-	-	-	-	-	-	-	-	-		
3. Infection with yellow head virus genotype 1	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
4. Infection with infectious hypodermal and haematopoietic necrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
5. Infection with infectious myonecrosis virus	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
6. Infection with <i>Macrobrachium rosenbergii</i> nodavirus (White Tail disease)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
7. Infection with <i>Hepatobacter penaei</i> (Necrotising hepatopancreatitis)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
8. Acute hepatopancreatic necrosis disease (AHPND)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
9. Infection with <i>Aphanomyces astaci</i> (Crayfish plague)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
<b>Non OIE-listed diseases</b>														
10. Hepatopancreatic Microsporidiosis caused by <i>Enterocytozoon hepatopenaei</i> (HPM-EHP)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
11. Viral covert mortality disease (VCMD) of shrimps	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
12. <i>Spiroplasma eriocheiris</i> infection	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
13. Decapod iridescent virus 1 (DIV-1)	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
<b>AMPHIBIAN DISEASES</b>														
<b>OIE-listed diseases</b>														
1. Infection with <i>Ranavirus</i> species	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
2. Infection with <i>Batrachochytrium dendrobatidis</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
3. Infection with <i>Batrachochytrium salamandrivorans</i>	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		

**Prepared by:**

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BANGLADESH

Date: 06.11.2021

ANY OTHER DISEASES OF IMPORTANCE															
1	Infection with <i>Streptococcus</i> of Tilapia	-	+( )	+( )								III (PCR)	1		
2	Infection with <i>Streptococcus</i> of Koi	-	+( )	+( )								III (PCR)	1		
3	Infection with <i>Aeromonas</i> of Koi	-	+( )	+( )								III (PCR)	2		
4	Infection with <i>Staphylococcus</i> of Pabda				-	+	+					III (PCR)	3		
5	Infection with <i>Staphylococcus</i> of Shing				-	+	+					III (PCR)	3		
6	Infection with <i>Aeromonas</i> of Shing, Koi				-	+	+					III (PCR)	4		
7	Infection with <i>Staphylococcus</i> of Gulsha							-	+	+		III (PCR)	5		
8	Infection with <i>Aeromonas</i> of Shing and Koi							-	+	+		III (PCR)	6		
9	Infection with Streptococcus of Tilapia ( <i>Oreochromis nilotica</i> ) and Koi ( <i>Anabas testudineus</i> ).										+ ( )	+ ( )	-	III (PCR)	7
10	Infection with Aeromonas of Shing ( <i>Heteropneustes fossilis</i> ), Koi ( <i>Anabas testudineus</i> ), Pabda ( <i>Ompok pabda</i> ) and Gulsha ( <i>Mystas cavasius</i> )										+ ( )	+ ( )	-	III (PCR)	8
11	Infection with Staphylococcus of Tilapia ( <i>Oreochromis nilotica</i> )										+ ( )	+ ( )	-	III (PCR)	9

**DISEASES PRESUMED EXOTIC TO THE REGION<sup>b</sup>**  
**LISTED BY THE OIE**  
**Finfish:** Infection with HPR-deleted or HPR0 salmon anaemia virus; Infection with salmon pancreas disease virus; Infection with *Gyrodactylus salaris*.  
**Molluscs:** Infection with *Marteilia refringens*; *Perkinsus marinus*.  
**NOT LISTED BY THE OIE**  
**Finfish:** Channel catfish virus disease

a/ Please use the following occurrence code:

Occurrence code and symbol	Definition	Occurrence code and symbol	Definition
Disease present +	The disease is present with clinical signs in the whole country (in domestic species or wildlife)	Disease absent -	The disease was absent in the country during the reporting period (in domestic species or wildlife).
Disease limited to one or more zones + ( )	The disease is present with clinical signs, and limited to one or more zones/compartments (in domestic species or wildlife)	Never reported 0000	The disease has "never been reported" (historically absent) for the whole country in domestic species and wildlife.
Infection/infestation + ?	Confirmed infestation or infection using diagnostic tests, but no clinical signs observed (in domestic species or wildlife)	No information ***	No information is available regarding the presence or the absence of this disease during the reporting period (in domestic species or wildlife).
Infection/infestation limited to one or more zones + ? ( )	Confirmed infestation or infection using diagnostic tests, but no clinical signs observed and limited to one or more zones/compartments (in domestic species or wildlife)		
Disease suspected ?	The presence of the disease was suspected but not confirmed (in domestic species or wildlife)		
Disease suspected but not confirmed and limited to one or more zones ? ( )	The presence of the disease was suspected but not confirmed and limited to one or more zones/compartments (in domestic species or wildlife)		

b/ If there is any changes on historical data, please highlight in RED

**I. Epidemiological comments:**  
(Comments should include: 1) Origin of the disease or pathogen (history of the disease); 2) Species affected; 3) Disease characteristics (unusual clinical signs or lesions); 4) Pathogen (isolated/sero-typed); 5) Mortality rate (high/low; decreasing/increasing); 6) Death toll (economic loss, etc); 7) Size of infected areas or names of infected areas; 8) Preventive/control measures taken; 9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories); 10) Published paper (articles in journals/website, etc). and 11) Unknown diseases: describe details as much as possible.)

Comment No.	
1	(Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Streptococcus agalactiae</i> 2) Species affected; Koi ( <i>Anabas testudineus</i> ), Tilapia ( <i>Oreochromis niloticus</i> ) 3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Enlargement and discoloration of liver, Kidney, Spleen and bile. 4) Pathogen (isolated/sero-typed); <i>Streptococcus agalactiae</i> 5) Mortality rate (high/low; decreasing/increasing); 30-40% 6) Death toll (economic loss, etc); 7) Size of infected areas or names of infected areas; Mymensingh, Chandpur 8) Preventive/control measures taken; Disinfectant, Antibiotics (tetracycline) 9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories); 10) Published paper (articles in journals/website, etc). and 11) Unknown diseases: describe details as much as possible.)

2	<p>(Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Aeromonas sp.</i>  2) Species affected; Koi (<i>Anabas testidineus</i>).  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Red lesion on body.  4) Pathogen (isolated/sero-typed); <i>Aeromonas sp</i>  5) Mortality rate (high/low; decreasing/increasing); 5%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh  8) Preventive/control measures taken; Disinfectant, Antibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc). and  11) Unknown diseases: describe details as much as possible.)</p>
3	<p>((Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Staphylococcus sp.</i>  2) Species affected; Pabda (Ompok Pabda), Shing (<i>Heteropneustes fossilis</i> )  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Enlargement and discoloration of liver, Kidney, bile.  4) Pathogen (isolated/sero-typed); <i>Staphylococcus sp.</i>  5) Mortality rate (high/low; decreasing/increasing); 10–30%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh, Netrokona, Chandpur  8) Preventive/control measures taken; Disinfectant, Antibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc). and  11) Unknown diseases: describe details as much as possible.)</p>
4	<p>(Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Aeromonas sp.</i>  2) Species affected; Shing (<i>Heteropneustes fossilis</i>), Koi (<i>Anabas testidineus</i>),  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Red lesion on body.  4) Pathogen (isolated/sero-typed); <i>Aeromonas sp</i>  5) Mortality rate (high/low; decreasing/increasing); 5%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh  8) Preventive/control measures taken; Disinfectant, Antibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc). and  11) Unknown diseases: describe details as much as possible.)</p>
5	<p>(Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Staphylococcus sp.</i>  2) Species affected; Gulsha (<i>Mystus cavasius</i>)  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Enlargement and discoloration of liver, kidney, bile.  4) Pathogen (isolated/sero-typed); <i>Staphylococcus sp.</i>  5) Mortality rate (high/low; decreasing/increasing); 10–30%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh, Netrokona,  8) Preventive/control measures taken; Disinfectant, Antibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc). and  11) Unknown diseases: describe details as much as possible.)</p>
6	<p>Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Aeromonas sp.</i>  2) Species affected; Shing (<i>Heteropneustes fossilis</i>), Koi (<i>Anabas testidineus</i>),  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Red lesion on body.  4) Pathogen (isolated/sero-typed); <i>Aeromonas sp</i>  5) Mortality rate (high/low; decreasing/increasing); 5%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh  8) Preventive/control measures taken; Disinfectant, Antibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc). and  11) Unknown diseases: describe details as much as possible.)</p>

7	<p>1) Origin of the disease or pathogen (history of the disease); <i>Streptococcus agalactiae</i>  2) Species affected; Koi (<i>Anabas testudineus</i>), Tilapia (<i>Oreochromis niloticus</i>)  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Enlargement and discoloration of liver, Kindney, Spleen and bile.  4) Pathogen (isolated/sero-typed); <i>Streptococcus agalactiae</i>  5) Mortality rate (high/low, decreasing/increasing); 30-40%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh, Chandpur, Netrokona, Kisorganj  8) Preventive/control measures taken; Disinfectant, Anitibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc), and  11) Unknown diseases: describe details as much as possible.</p>
8	<p>(Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Aeromonas hydrophila</i>.  2) Species affected; Shing (<i>Heteropneustes fossilis</i>), Koi (<i>Anabas testudineus</i>), Pabda (<i>Ompok pabda</i>) and Gulsha (<i>Mystas cavasius</i>)  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Red lesion on body.  4) Pathogen (isolated/sero-typed); <i>Aeromonas sp</i>  5) Mortality rate (high/low, decreasing/increasing); 10.5%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh, Netrokona  8) Preventive/control measures taken; Disinfectant, Anitibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc), and  11) Unknown diseases: describe details as much as possible.)</p>
9	<p>Comments should include: 1) Origin of the disease or pathogen (history of the disease); <i>Staphylococcus sp.</i>  2) Species affected; Tilapia (<i>Oreochromis nilotica</i>)  3) Disease characteristics (unusual clinical signs or lesions); Loss of balance, Unusual movement, Opaque eye, Enlargement and discoloration of liver, kidney, bile.  4) Pathogen (isolated/sero-typed); <i>Staphylococcus sp.</i>  5) Mortality rate (high/low, decreasing/increasing); 5%  6) Death toll (economic loss, etc);  7) Size of infected areas or names of infected areas; Mymensingh, Netrokona  8) Preventive/control measures taken; Disinfectant, Anitibiotics (tetracycline)  9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories);  10) Published paper (articles in journals/website, etc), and  11) Unknown diseases: describe details as much as possible.)</p>

2. New aquatic animal health regulations introduced within past six months (with effective date):