



Differential diagnostic table

(Please note: one or more of the disease signs described may be present with disease. Disease, however, may still be present in the absence of the gross or clinical signs described here)

POSSIBLE DISEASE OR DISEASE AGENT RESPONSIBLE	distinctive faecal castes	no visible changes	lethargy	gill anaemia or haemorrhage	swollen stomach/ascites	pop eye &/or ocular haemorrhage	external haemorrhages	internal haemorrhages	whirling/corkscrew behaviour	erratic swimming/jumping from water/ scraping or other motor skill disfunction	skin/body lesions/ulcers	external growths or cysts	gathering at surface/edges of waterbody	swollen or colour change of internal organs (kidney/spleen/other hepatic)	white spots on external surface	secondary bacterial/fungal/parasitic infection	deformities	external colour change	internal colour change	white midgut line	watery/translucent flesh	high species specificity	tissue necrosis	ulceration/lesions in tissue	wasting	reduced feeding	reduced growth	mass mortality	moderate mortality	pustules gills/mantle	gaping	retraction of gill margins	DIFFERENTIAL ALTERNATIVES
DISEASES OF FIMFISH—VIRAL																																	
Channel catfish virus disease																																	Enteric septicemia of catfish
Epizootic haematopoietic necrosis			●																														Viral haemorrhagic septicemia / Infectious haematopoietic necrosis
Groupers iridoviral disease			●																														Viral encephalopathy and retinopathy
Infectious haematopoietic necrosis	□																																Viral haemorrhagic septicemia / Infectious pancreatic necrosis / Infectious salmon anaemia / Enteric red mouth disease / Whirling disease
Infectious pancreatic necrosis	□																																Infectious haematopoietic necrosis / Viral haemorrhagic septicemia / Infectious salmon anaemia
Infectious salmon anaemia																																	Infectious pancreatic necrosis / Infectious haematopoietic necrosis / Viral haemorrhagic septicemia
Koi herpesvirus disease																																	Spring viraemia of carp / Viral haemorrhagic septicemia / Epizootic ulcerative syndrome
Red sea bream iridoviral disease																																	Epizootic haematopoietic necrosis

● may be seen in all life stages
 * typically seen in adults only
 □ typically seen in juveniles only

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Spring viraemia of carp			☐	●	●	●	●	●	☐	☐															☐							Enteric septicemia of catfish / Infection with atypical <i>Aeromonas salmonicida</i> / Enteric red mouth disease / Koi herpesvirus disease	
Viral encephalopathy and retinopathy			☐						☐	☐				☐																		Nil (histology required)	
Viral haemorrhagic septicaemia			☐			☐	☐	☐	☐	☐	☐		☐	☐					☐								☐					Infectious haematopoietic necrosis / Infectious pancreatic necrosis / Infectious salmon anaemia / Koi herpesvirus disease / Furunculosis	
DISEASES OF FINFISH—BACTERIAL																																	
Bacterial kidney disease					●	●		●			●			●																			Nil (histology required)
Enteric red mouth disease (<i>Yersinia ruckeri</i>)—Hagerman					●	●	●	●		●			●																				Viral haemorrhagic septicaemia / Infectious haematopoietic necrosis / Spring viraemia of carp / Infectious salmon anaemia
Enteric septicemia of catfish			●		●	●	●	●		●			●																				Channel catfish virus disease
Furunculosis			●		●	●	●	●		●	●		●	●					●							●							Viral haemorrhagic septicaemia / Infection with atypical <i>Aeromonas salmonicida</i>

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Infection with <i>Aeromonas salmonicida</i> — atypical strains			●	●			●	●	●	●	●		●	●	●	●																	Spring viraemia of carp / Channel catfish virus disease / Epizootic ulcerative syndrome
Piscirickettsiosis			●	●									●					●								●						Nil (histology required)	
DISEASES OF FINFISH—FUNGAL																																Nil (histology required)	
Epizootic ulcerative syndrome											●					●																Nil (histology required)	
DISEASES OF FINFISH—PARASITIC																																Many (histology required)	
Gyrodactylosis										●	●					●		●														Viral haemorrhagic septicaemia	
Whirling disease									□	□								□															
DISEASES OF MOLLUSCS—VIRAL																																	
Abalone viral ganglioneuritis			●														●															●	Abalone viral mortality
Abalone viral mortality														□			□																Abalone viral ganglioneuritis
Akoya oyster disease																			*														Nil (histology required)
Iridovirus																																	Infection with <i>Bornania</i> spp., <i>Marteilia</i> spp., <i>Mikrocytos</i> spp., <i>Perkinsus</i> spp.
DISEASES OF MOLLUSCS—BACTERIAL																																	
Infection with <i>Xenohalictis californiensis</i>																																	Infection with <i>Perkinsus</i> spp.

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DISEASES OF MOLLUSCS—PARASITIC																																					
Infection with <i>Bonamia</i> species																																					
Infection with <i>Bonamia exitiosa</i>																																					
Infection with <i>Bonamia ostreae</i>																																					
Infection with <i>Marteilia refringens</i>														*					*	*						*	*										
Infection with <i>Marteilia sydneyi</i>														*					*	*						*	*										
Infection with <i>Marteilia chunmuensis</i>																																					
Infection with <i>Mikrocytos mackini</i>																		*																			
Infection with <i>Perkinsus marinus</i>														*					*	*																	
Infection with <i>Perkinsus olseni</i>																			*	*																	
DISEASES OF CRUSTACEA—VIRAL																																					
Bacterial midgut gland necrosis													●	□																							
Gill-associated virus disease													●	□																							
Infectious hypodermal and haematopoietic necrosis																																					

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Infectious myonecrosis																																	White tail disease	
Spherical baculovirus — <i>Penaeus monodon</i> - type baculovirus			☐													☐		☐		☐													Baculoviral midgut gland necrosis / Tetrahedral baculovirus — <i>Baculovirus penaei</i>	
Taura syndrome			☐										☐					☐															Yellowhead disease	
Tetrahedral baculovirus — <i>Baculovirus penaei</i>																●				●													Baculoviral midgut gland necrosis / Spherical baculovirus— <i>Penaeus monodon</i> -type baculovirus	
White spot disease			●																														Infectious hypodermal and haematopoietic necrosis / Yellowhead disease / Taura syndrome	
White tail disease																																	Infectious myonecrosis	
Yellowhead disease													☐																				Taura syndrome	
DISEASES OF CRUSTACEA—BACTERIAL																																	Many (histology required)	
Necrotising hepatopancreatitis			●																															
DISEASES OF CRUSTACEA—FUNGAL																																		Nil (histology required)
Crayfish plague																																		

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