

IMMEDIATE NOTIFICATION / FOLLOW-UP REPORT

*compulsory fields (when relevant)

1	Type of report*	<input checked="" type="checkbox"/>	Immediate notification
		<input type="checkbox"/>	Follow-up report Number of the report: ...
		<input type="checkbox"/>	Final report
2	Country/Territory*	Japan	
3	Name of the sender*	Dr Norio Kumagai	
	Position of the sender*	Director, Chief Veterinary Officer	

INITIALIZATION

4	Disease*	Acute hepatopancreatic necrosis disease	
	If emerging disease:	<input type="checkbox"/>	Known pathogenic agent
		<input type="checkbox"/>	Previously unrecognised pathogenic agent/disease
5	Causal agent*	Vibrio parahaemolyticus	
6	Serotype/genotype/subtype*		

7	Reason for immediate notification*	<input type="checkbox"/>	a. First occurrence in the country
		<input checked="" type="checkbox"/>	b. First occurrence in a zone/compartiment
		<input type="checkbox"/>	c. Recurrence Date of last occurrence*:
		<input type="checkbox"/>	d. New strain in the country
		<input type="checkbox"/>	e. New strain in a zone/compartiment
		<input type="checkbox"/>	f. Unexpected change or increase Date of start of the event*:
		<input type="checkbox"/>	g. New host species
		<input type="checkbox"/>	h. Emerging disease

8	The event occurs in*	<input checked="" type="checkbox"/>	a zone/compartiment
		<input type="checkbox"/>	the whole country

EVENT INFORMATION

9	Source of the event or origin of the infection*	<input type="checkbox"/>	Unknown or inconclusive
		<input checked="" type="checkbox"/>	Introduction of new live animals
		<input type="checkbox"/>	Introduction of new non-viable animal products
		<input type="checkbox"/>	Legal movement of animals
		<input type="checkbox"/>	Illegal movement of animals
		<input type="checkbox"/>	Animals in transit
		<input type="checkbox"/>	Contact with infected neighbouring establishment
		<input type="checkbox"/>	Feeding raw aquatic animal product
		<input type="checkbox"/>	Fomites (humans, vehicles, feed, etc.)
		<input type="checkbox"/>	Horizontal spread through water
		<input type="checkbox"/>	True vertical spread (through infected eggs or gametes)
		<input type="checkbox"/>	False vertical spread (through contaminated eggs or gametes)
		<input type="checkbox"/>	Vectors
		<input type="checkbox"/>	Contact with wild species
<input type="checkbox"/>	Other source (Please specify): ...		

10	Control measures at event level	Farmed animals		Wild animals		Outbreak reference (see step 14)
		Applied	To be applied	Applied	To be applied	
	Control of vectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Control of wildlife reservoirs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Disinfection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Emergency harvest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Killing for commercial use or own use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Movement control inside the country	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Official destruction of animal products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Official disposal of carcasses, by-products and waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Process to inactivate the pathogenic agent in products or by-products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Quarantine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Selective killing and disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Stamping out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Surveillance outside infected and/or protection zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Surveillance within infected and/or protection zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Traceability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Vaccination in response to the outbreak(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Zoning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

OUTBREAK INFORMATION

11	Outbreak details	Outbreak 1	Outbreak 2	Outbreak 3
	Outbreak national reference*			
	Date of start of the outbreak*	19/02/2021		
	Date of end of the outbreak			
	Location*	Hiroshima Prefecture		
	Approximate location (Yes/No)*	No		
	Latitude*	132.7751		
	Longitude*	34.5559		
	Number of outbreaks (if outbreak cluster)			
	Epidemiological unit*	Farm		
	Category*	Farmed/Wild	Farmed	
		Latin name	Litopenaeus vannamei	
		Common name	Whiteleg shrimp	
		Water type (if wild)		
		Production system (if farmed)	Closed	
	Measuring unit* (animal/kg/metric ton)	Animal		
	Number of animals*	Susceptible	203,400	
		Cases	200,000	
		Deaths	160,000	
		Killed and disposed of	43,400	
		Killed for commercial use	0	
		Vaccinated		
	Morbidity rate, % or 1 to 5 scale *	100%		
	Mortality rate, % or 1 to 5 scale *	80%		
12	Description of the affected population			

Note: If you have more than three outbreaks to report, please add as many columns as needed. If you have more than one susceptible species in an outbreak, please add as many lines as needed.

13	If unexpected change/increase (instead of filling in "outbreak details")		Change 1	Change 2	
	Category*	Farmed/Wild			
		Latin name			
		Common name			
		Water type (if wild)			
		Production system (if farmed)			
	Change in disease distribution	Current/previously affected areas*			
		New affected areas*			
	Change in morbidity/mortality	Morbidity* % or 1 to 5 scale	Area affected*		
			Current level*		
			Previous level *		
		Mortality* % or 1 to 5 scale	Area affected *		
			Current level*		
Previous level *					

Note: If you have more than two changes to report, please add as many columns as needed.

14	Control measures at outbreak level. If you wish to specify for some outbreaks different control measures from those that you have selected in step 10 as applied at event level, put the outbreak reference in the relevant box at step 10 and "+" for 'add' or "-" for 'remove' (the latter only for measures that have been selected at event level).
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15	Method of diagnosis at outbreak level. If the method of diagnosis for an individual outbreak is different from the method of diagnosis for the whole event, place the outbreak reference in the box adjacent to the appropriate method of diagnosis in step 17. For example, if the method for the whole event is 'diagnostic test', but for a specific outbreak "ABC" it is 'clinical', in step 17 tick 'diagnostic test' box (event level) and enter "ABC" in the field on the right of 'clinical' (outbreak level).
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DIAGNOSIS INFORMATION

16	Clinical signs*	<input checked="" type="checkbox"/> Yes
		<input type="checkbox"/> No

17	Method of diagnosis for the event*	Method of diagnosis	Outbreak reference (see step 15)
		<input type="checkbox"/> Suspicion	
		<input type="checkbox"/> Clinical	
		<input checked="" type="checkbox"/> Diagnostic test	
		<input type="checkbox"/> Necropsy	

18	Date of confirmation of the event*	
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19	Diagnostic tests at event level*	Test 1	Test 2	Test 3
	Test type (Field/Laboratory) *	Laboratory	Laboratory	Laboratory
	Test name*	Nested RT-PCR	Nested RT-PCR	Gene sequencing
	Laboratory type	Local	National	National
	Laboratory name	Hiroshima Prefectural Technology Research Institute	Fisheries Technology Institute of Japan Fisheries Research and Education Agency	Fisheries Technology Institute of Japan Fisheries Research and Education Agency
	Species sampled*	Whiteleg shrimp (Litopenaeus vannamei)	Whiteleg shrimp (Litopenaeus vannamei)	Whiteleg shrimp (Litopenaeus vannamei)
	Tested from*	24/02/2021	26/02/2021	01/03/2021

	Tested to*	25/02/2021	26/02/2021	02/03/2021
	Number of outbreaks tested*	1	1	1
	Result*	Positive	Positive	Positive

20	Outbreak national reference. To link a diagnostic test with a specific outbreak, enter the outbreak reference in the relevant column.			
		Result date:	Result date:	Result date:

Note: If you have more than three tests to report, please add as many columns as needed.

FINALISATION

21	Epidemiological comments	<p>EN: 17th February: An on-land farm introduced juveniles of whiteleg shrimp (<i>Litopenaeus vannamei</i>) that were imported from Thailand. The prefectural government demanded the farm to inspect the shrimps for six months from the introduction day because they were imported live shrimp juveniles. 23rd - 24th February: Mass mortality events of whiteleg shrimp juveniles occurred.</p> <p>24th February: The prefectural experimental station conducted field survey at the farm and PCR test for several pathogens in shrimp. As a result of nested PCR, acute hepatopancreatic necrosis disease (AHND) was suspected on 25th February.</p> <p>26th February - 2nd March: Fisheries Technology Institute, which is in charge of confirmatory diagnosis in aquatic animals, confirmed the positive for AHND by nested PCR and sequencing of the PCR product. Said farm is on-land farm with recirculation filtration system (the rearing water is not drained outside the farm). All the imported shrimp juveniles had been kept in the farm and no juvenile has been distributed to another place since the introduction into the farm.</p> <p>FR : 17 février : Une ferme terrestre a introduit des crevettes à pattes blanches (<i>Litopenaeus vannamei</i>) juvéniles importées de Thaïlande. Le gouvernement préfectoral a exigé que la ferme inspecte les crevettes pendant six mois à compter du jour de l'introduction, car il s'agissait de crevettes juvéniles vivantes importées.</p> <p>23-24 février : Mortalité massive de crevettes à pattes blanches juvéniles.</p> <p>24 février : La station expérimentale préfectorale a mené une enquête de terrain dans la ferme et des tests PCR pour détecter plusieurs agents pathogènes chez les crevettes. À la suite de la PCR nichée, la maladie de nécrose hépatopancréatique aiguë (MNHA) a été suspectée le 25 février.</p> <p>26 février-2 mars : L'Institut de technologie des pêches du Japon, qui est chargé du diagnostic de confirmation chez les animaux aquatiques, a confirmé le résultat positif pour la MNHA via PCR nichée et par séquençage du produit de la PCR. Ladite ferme est une ferme terrestre avec un système de filtration par recirculation (l'eau d'élevage n'est pas évacuée à l'extérieur de la ferme). Toutes les crevettes juvéniles importées ont été maintenues dans la ferme et aucune crevette juvénile n'a été distribuée à l'extérieur depuis l'introduction dans la ferme.</p>
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		<p>SP: 17 de febrero: Una explotación terrestre introdujo camarones patiblancos (<i>Litopenaeus vannamei</i>) juveniles importados de Tailandia. El gobierno de la prefectura exigió a la explotación que inspeccionara los camarones durante seis meses a partir del día de su introducción, ya que se trataba de camarones juveniles vivos importados.</p> <p>23-24 de febrero: Mortalidad masiva de camarones patiblancos juveniles.</p> <p>24 de febrero: La estación experimental de la prefectura realizó un estudio de campo en la explotación y pruebas PCR para detectar varios patógenos en los camarones. Como resultado de la PCR anidada, el 25 de febrero se sospechó de la enfermedad de la necrosis hepatopancreática aguda (ENHA).</p> <p>26 de febrero-2 de marzo: El Instituto de Tecnología Pesquera de Japón, responsable del diagnóstico de confirmación en animales acuáticos, confirmó el resultado positivo para ENHA mediante PCR anidada y secuenciación del producto de la PCR. Dicha explotación es una explotación terrestre con un sistema de filtración recirculante (el agua de la explotación no se vierte fuera de ella). Todos los camarones juveniles importados se han mantenido en la explotación y no se ha distribuido ningún camarón juvenil fuera de la explotación desde su introducción.</p>
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22	If emerging disease:	
	Morbidity rate, % or 1 to 5 scale *	
	Mortality rate, % or 1 to 5 scale *	
	Zoonotic potential (Yes/No) *	(Please describe)

23	Do you consider that the event is over? *		
	No, the event is ongoing. Weekly follow-up reports will be submitted	<input checked="" type="checkbox"/>	
	Yes, the event is resolved. No more follow-up reports will be submitted.	<input type="checkbox"/>	If not yet provided, give an end date for all the remaining on-going outbreaks (dd/mm/yyyy)
		<input type="checkbox"/>	Give a date of end for the event if different from that of the last resolved outbreak (dd/mm/yyyy)
Yes, the event cannot be considered resolved but the situation is sufficiently stable. No more follow-up reports will be submitted. Information about this disease will be included in the next six-monthly reports.	<input type="checkbox"/>	Give a date of end for the event if relevant (dd/mm/yyyy)	