

OPERATIONAL DIRECTIVE

Enquiries to: OzFoodNet OD Number: OD: 0490/14

Communicable Disease Control Directorate

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Subject: Public Health Follow-up of Sporadic Enteric Disease Notifications

This Operational Directive describes the course of action to be undertaken by staff of Public Health Units (PHU) and/or the OzFoodNet Unit within the Communicable Disease Control Directorate for the public health management of **sporadic cases** of notifiable enteric infections. Clusters or outbreaks of enteric infection, especially those occurring in the Perth metropolitan area, are generally investigated by OzFoodNet, with assistance and PHUs, as required.

This document should be read in conjunction with Guidelines for exclusion of people with enteric infections and their contacts from work, school and child-care settings (OD 0303/10).

Professor Bryant Stokes
A/DIRECTOR GENERAL
DEPARTMENT OF NEALTH WA

This information is available in alternative formats on request for a person with a disability.

1. BACKGROUND

Enteric infections comprise around one–fifth of all infectious disease notifications in WA. Campylobacteriosis and salmonellosis are most common, accounting for over three-quarters of enteric disease notifications. Appropriate public health management of sporadic enteric disease cases is important in preventing the transmission, and reducing the impact, of these infections.

2. CONTROL MEASURES

The table below summarises the public health follow-up required for sporadic pases of notifiable enteric infections and their contacts, and identifies the responsible organisation and the response timeframe.

	1						
Disease (incubation period)	Public health follow- up for cases	Public health follow-up for contacts	Organisation responsible	Response time			
Botulism (12-36 hours)	Identify source and stop further consumption of contaminated food.	Identify people who have eaten source food & are at risk of developing disease.	OFN, CDCD in collaboration with FU	On day of notification			
Haemolytic uraemic syndrome (HUS) caused by enteric infections (N/A)	Interview to identify risk factors. Maintain surveillance for further cases.	N/A	OFN, CDCD	Within 1 working day of notification			
Listeria infection (3-70 days)	Interview to identify risk factors. Maintain surveillance for further cases.	2 N/A	OFN, CDCD	Within 1 working day of notification			
Salmonella Enteritidis infection (1-7 days)	Interview to ascertain where infection acquired. If Australian-acquired identify risk factors: Ensure enterior precautions and exclusions.	N/A	OFN, CDCD	Within 7 working days of notification			
Shiga-/Vero-toxigenic E. coli (STEC/VTEC) infection (2-10 days)	Interview to identify risk accors. Ensure enteric precautions, exclusions and clearance specimens for high risk cases*.	N/A	OFN, CDCD	Within 1 working day of notification			
Vibrio parama molyticus infection (4-30 hours)	Interview to ascertain where infection acquired. If Australian-acquired, identify risk factors. Ensure enteric precautions and exclusions*.	N/A	OFN, CDCD	Within 2 working days of notification			
Cholera (<i>Vibrio cholerae</i> 01/0139) presumptive toxin positive (Hours to 5 days)	Interview to ascertain where infection acquired (see Appendix 1). If Australian-acquired, refer to OFN to identify risk factors. Ensure enteric precautions, exclusions and clearance specimens for high risk cases*.	N/A	PHU	On day of notification			
Hepatitis A (15-50 days)	See Operational Direct Management of		PHU	Within 1 working day of notification			

Disease (incubation period)	Public health follow- up for cases	Public health follow-up for contacts	Organisation responsible	Response time
Hepatitis E (26-42 days)	Interview to ascertain where infection acquired. If Australian-acquired, refer to OFN to identify risk factors. Ensure enteric precautions and exclusions for high risk cases*.	N/A	PHU	Within 2 working days of notification
Paratyphoid (<i>Salmonella</i> Paratyphi) <i>(1-10 days)</i>	Interview to ascertain where infection acquired (see Appendix 1). If Australian-acquired, refer to OFN to identify risk factors. Ensure enteric precautions, exclusions and clearance specimens for high risk cases*.	Ensure enteric precautions, exclusions and clearance specimens for high risk contacts*	PHU	on day of notification
Shigella dysenteriae infection (1-3 days)	Interview to ascertain where infection acquired (see Appendix 1). If Australian-acquired, refer to OFN to identify risk factors. Ensure enteric precautions, exclusions and clearance specimens for high risk cases*.	NAINO	PHU	On day of notification
Typhoid (<i>Salmonella</i> Typhi) (3-60 days)	Interview to ascertain where infection acquired (see Appendix 1). If Australian-acquired, efer to OFN to identify risk factors. Ensure enteric precautions, exclusions and clearance specimens for ligh risk cases*.	Ensure enteric precautions, exclusions and clearance specimens for high risk contacts*	PHU	On day of notification
Yersinia infection	enerally only clusters of required.		•	
Cryptosporidium infection	Generally only clusters o required.		•	
Salmonella species, not listed a bave	Generally only clusters or required.		•	
Shigella species, not lieted above	Generally only clusters of required.	·	•	
Campylobacter infection	Generally only clusters of required.			
Rotavirus	Generally only clusters of required.			

*refer to Guidelines for exclusion of people with enteric infections and their contacts from work, school and child-care settings (OD 0303/10). High risk cases include health care, residential care and child care workers, food handlers, young children in child care and people who are faecally incontinent.

FU = Food Unit, Environmental Health Directorate
OFN, CDCD = OzFoodNet, located within Communicable Disease Control Directorate

PHU = Public Health Unit

N/A = Not applicable

3. PROCEDURE FOR PUBLIC HEALTH MANAGEMENT OF SPORADIC ENTERIC DISEASE NOTIFICATIONS

General procedures

- Confirm that the case meets the case definition for notification and is entered on the Western Australian Notifiable Infectious Disease Database (WANIDD) within 24 hours of receipt, if not already on the database. Update the notification record in WANIDD if additional information is available. Case definition manuals are available in all PHUs or individual disease definitions are listed on the Department of Health Public Health website, in the section 'Infectious diseases A to Z for health professionals that is in the section of the professionals on the professionals.
- Refer to table in section 3 above to decide whether OFN or the PHU is responsible for public health management of the case, and the appropriate response time.
- If a PHU is responsible, the case should be followed up by the PHU in the area where the case resides, or for non-residents the PHU area where the case received medical attention.
- Prior to proceeding with case follow-up, the CDCD/PHO staff member should advise the
 notifying medical practitioner of their intention to contact the case. This is necessary as
 electronic laboratory notification to CDCD ofter occurs before the medical practitioner
 becomes aware of the positive result. Hence, the patient may not have been informed
 of their diagnosis. In the event that the patifying medical practitioner or appropriate
 delegate (e.g. practice nurse) is unavailable, CDCD/PHU staff should continue with the
 follow-up investigation in the interest of minimising disease transmission.
- Provide case and contacts with information about the infection using the generic 'Gastroenteritis' fact sheet and a disease-specific fact sheet, as appropriate (fact sheets available from 'Infectious diseases A-Z':
 http://www.public.health.wa.gov.au/1/10/2/infectious dise.pm)
 and Healthy WA website: http://www.healthywa.wa.gov.au/
- Implement appropriete public health interventions for case and contacts as documented in the table in section 3 above, in collaboration with the notifying medical practitioner and local government officers, as appropriate.
- During orblic health follow-up, update WANIDD with information collected, including date of onset, travel history, clinical history, whether cases or contacts are high risk and when follow-up is complete.
- If there is cluster or outbreak of a locally acquired enteric infection, CDCD and/or PHU staff will investigate, as appropriate. In the Perth metropolitan area, CDCD will generally lead outbreak investigations. In country areas, the PHU should lead, with advice from CDCD.

Cholera, Shigella dysenteriae, typhoid and paratyphoid

 Cholera: for Vibrio cholerae O1 or O139 to meet the case definition, the isolate must be toxin positive. However, as toxin testing can take some time, public health follow-up should commence presumptively once the organism is identified as serotype O1 or O139.

Cases

Use the questionnaire included in Appendix 1. Interview the case or, if this is not
possible, interview their carer or doctor. For "high risk" cases of typhoid,
paratyphoid, Shigella dysenteriae infection or cholera, use the appropriate letters in
Appendices 2 and 3 to assist with collection of clearance specimens.

Contacts

- For high risk contacts of typhoid and paratyphoid only, use the letter in Appendix 4 assist with collection of clearance specimens.
- For low risk contacts of typhoid, paratyphoid cholera, and Shigella dyserteriae infection, use the letter in Appendix 5 to assist with public health management.

Hepatitis A

 For guidance on public health management, see OD 0228/03 Management of Hepatitis A.

4. MORE INFORMATION

For more information contact OzFoodNet staff at the Columnuicable Disease Control Directorate (08 9388 4811 / 08 9388 4872) or the appropriate Public Health Unit with contact details listed at http://www.public.health.wa.gov/au/3/280/3/contact_details.pm.

5. REFERENCES

- 1. Heymann DL (ed). Control of Communicable Diseases Manual 2008 (19th Edition). American Public Health Association.
- 2. Communicable Disease Conto Network Australia (CDNA). Surveillance Case Definitions for the Australian National Notifiable Diseases Surveillance System: 1 January 2004 to 1 July 2013

 http://www.health.gov.au/hrefnet/main/publishing.nsf/Content/cdna-casedefinitions.htm

6. APPENDICES

Appendix 1: Typhord Paratyphoid /Cholera / Shigella dysenteriae Questionnaire.

Appendix 2: Typhoid / Paratyphoid specimen collection for clearance letter (high risk cases).

Appendix Cholera /Shigella dysenteriae specimen collection for clearance letter (high risk cases).

Appendix 4: Typhoid / Paratyphoid specimen collection for clearance letter (high risk contacts).

Appendix 5: Typhoid / Paratyphoid / Cholera / Shigella dysenteriae letter (low risk contacts).

Appendix 1



Government of **Western Australia** Department of **Health**

Typhoid, Paratyphoid, Cholera and *Shigella dysenteriae* Questionnaire

Note to Interviewer:	You will need a calendar	l <u>—</u>			
	at hand for this interview	Date:		/	<u>/ </u>
☐ Typhoid			Interviewer:	($\frac{2}{2}$
☐ Paratyphoid		Person	n interviewed if not case		<u>/</u>
☐ Cholera			Relationship to case		
☐ Shigella dysenteria	e		Interpreter used?		☐ Yes
_ ,			language: OFFICE V		
			WANIDD Numbe		
		ı	WANIDD Updated	/	/
0 · · · · · · · · D					
SECTION 1: DEMOGR	RAPHIC DATA	OII N			
Surname:		Other Na	mes:		
Street address:		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
Suburb/town:			code:		
Telephone: H		W: ()	Mobile:		
Date of birth:	/ / or Age:	6	Sex: Male	Female	
Country of birth:	* C	Language spoke	en at home:		
Of Aboriginal or Torres	Strait Islander origin?	☐ No ☐ Yes			
Occupation:					
Name /address of employer or school or ch	nild				
care attended:	illu				
	4				
Data last attandad	Telephone:		ax:		
Date last attended:		igh risk group?‡	∐ No		
‡ High risk cases include health, r	residential and child care workers, food har	ndlers, young children in child	care and cases who are faecally	incontinent.	
SECTION 2: TREATIN	IG DOCTOR / HOSPITAL / L	ABORATORY			
None of treating Doctor			Telephone:		<u>.</u>
Address:			Facsimile:		
Admitted to Hospital:	☐ No ☐ Yes If y	es, which hospital?	Date of adm	ission:	
Did patient die?	☐ No ☐ Yes If y	es, date of death:			
Diagnosis method:	Culture Ot	her, please detail			
Date specimen taken	/ / Sp	pecimen type] faeces	other	

Onset date o	f illness:	/_		Tot	al duration of illness:days
Treatment:					
Comments:					
					\sim
					\sim
					0.
SYMPTOMS					··Ine
Malaise	☐ No	☐ Yes	Unknown	Skin spots	☐ No ☐ Yes ☐ Unknown
Anorexia	☐ No	Yes	Unknown	Body aches	□No □ Yes □ Unknown
Fever	☐ No	☐ Yes	Unknown	Diarrhoea	No ☐ Yes ☐ Unknown
Headache	☐ No	☐ Yes	Unknown	Vomiting	☐ No ☐ Yes ☐ Unknown
Cough	☐ No	☐ Yes	Unknown	Other (speare)	
SECTION 4:	RISK FA	ACTORS		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Incubation/ex	xposure p	periods:			
Incubation/ex	xposure p		Вес	giming of incubation period	End of incubation period (number of days before onset of illness)
Typhoid			Onset	ate minus 60 days	days before onset of illness) Onset date minus 3 days
			Onset da	V	days before onset of illness)
Typhoid Paratyphoid	Infection		Onset da	ate minus 60 days ate minus 10 days	Onset date minus 3 days Onset date minus 1 day
Typhoid Paratyphoid Cholera Shigella dysent	Infection	on	Onset da	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days	Onset date minus 1 day Onset time minus a few hours
Typhoid Paratyphoid Cholera Shigella dyseni	Infection teriae f illness (copy fice	Onset da	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days // / to	Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day
Typhoid Paratyphoid Cholera Shigella dysent Onset date o During the Inc (write dates)	Infection teriae f illness (copy fice	Onset da Chse) da Onset da Onset da Onset da Onset da	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days // / to	Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day
Typhoid Paratyphoid Cholera Shigella dysent Onset date o During the Inc (write dates)	Infection teriae fillness (cubation	copy fier	Onset day Conset day Onset	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days / / to ubation period)	Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day I (end of incubation period)
Typhoid Paratyphoid Cholera Shigella dysent Onset date o During the Inc (write dates) Risk	Infection teriae fillness (cubation	copy fier	Onset da Coset da Onset da Ons	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days / / to ubation period)	Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day Onset date minus 1 day Onset date minus 1 day Details
Typhoid Paratyphoid Cholera Shigella dysent Onset date o During the Inc (write dates) Risk	Infection teriae fillness (cubation	copy fier	Onset da Coset da Onset da Ons	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days / / to ubation period)	days before onset of illness) Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day I (end of incubation period) Details
Typhoid Paratyphoid Cholera Shigella dysent Onset date o During the Inc (write dates) Risk	Infection teriae fillness (cubation	copy fier	Onset da Coset da Onset da Ons	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days :/ / to ubation period)	days before onset of illness) Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day / (end of incubation period) Details Return: / /
Typhoid Paratyphoid Cholera Shigella dysent Onset date o During the Inc (write dates) Risk	Infection teriae fillness (cubation cubation cubation cubation cubation	copy fier Period	Onset day Coset	ate minus 60 days ate minus 10 days ate minus 5 days ate minus 3 days :/ / to ubation period) Places Visited:/ Departure://	days before onset of illness) Onset date minus 3 days Onset date minus 1 day Onset time minus a few hours Onset date minus 1 day / (end of incubation period) Details Return: / / // es estigation

Section 5: Follow Up and Exclusions for Case										
1. Low risk groups	1. Low risk groups									
Hygiene discussed with / parent / guardian?	case	□No	Yes	Fact sh	eet sent?	□No	Yes			
2. High risk groups Tick box that describ Young child in child c		e: Child care	a worker	1 Health c	are worker □ Re	sidential car	a worker	nandler	102	
Faecally incontinent	ale	Tornia can	e worker	j i icalili G	are worker	Sideriliai car	e worker1 ood i	landier		
Name of workplace/child centre:	d care	Date la	ast attended:				<u></u>)		
Exclusion required?		□No	Yes				7			
Exclusion discussed wit case / parent / guardian		□No	Yes	Hygiene	discussed with car	se / parept	guardian? [□ No □	Yes	
Letter and fact sheet se	nt?	□No	☐ Yes		C	CILL				
Clearance testing§		□ No	Yes	#1: #2: #3:			ted Not De	tected		
Typhoid, Paratyphoid Cholera, Shigella dyse	Typhoid, Paratyphoid: Three consecutive negative fascal cultures, taken at least 24 hours apart, commencing at least 48 h after cessation of antibiotic therapy and not be prefered one month after onset of illness. Cholera, Shigella dysenteriae: Asymptomatic for 48 hours, then two consecutive negative faecal specimens collected at least 24 hours apart. SECTION 6: FOLLOW UP AND EXCUSIONS FOR CONTACTS									
6.1 Contacts who tra - check if they are send contact letter	þ.gh r	isk‡, if so	clearance§		usion required for	typhoid an	nd paratyphoid cont	acts, for oth	ner contact	
Name	Age	Contact	phone num address	ber and	Has the cont similar symp case?	toms to	Occupation & workplace / Schoo Child care centre	17 & Ex	ce Testing clusion uired	
70					☐ No ☐ Yes ☐	Don't Know		□No	☐ Yes	
8					☐ No ☐ Yes ☐	Don't Know		□No	☐ Yes	
3.					☐ No ☐ Yes ☐	Don't Know		□No	☐ Yes	

SECTION 6: FOLLOW UP AND EXCLUSIONS FOR CONTACTS – Cont'd....

Name	Age Contact phone number and address Has the contact similar symptomatics.		symptoms to	workplac	Occupation & rkplace / School / child care centre		Clearance Testing & Exclusion required	
4.			□ No □ `	Yes Don't Know			□No	☐ Yes
5.			□ No □ `	Yes Don't Know			□No	
incontinent) who had a Clearance is defined a Typhoid, Paratyphoi	a similar eas: d: Two that this	contacts (health, residential and contacts (health, residential and contacts (i.e. travelled) to the case of consecutive negative faecal cultries different to the clearance requirements of the case after their synontact that they must stop work in	e during their ures, taken a ements for co	incubation period t least 24 hours apa ases. eveloped	rt. These ca		e immediat	V
Name	Age		-	Has the contact similar symptom case?	t had	Occupation	on / Schoo	ol / CCC
1.				□ No □	es			
2.				□No □	Yes			
3.				No 🗆	Yes			
4.			~	□ No □	yes			
				Attach	extra inv	estigation s	sheets if	necessa

Following on from your typhoid / paratyphoid infection (delete as appropriate), the letter explains Department of Health requirements for testing to check that you no longer carry the infection.

Before you can return to work as a food handler, health care worker, residential care worker or child care worker, or before returning to child care, you (or you child) need to provide 3 faecal specimens and all 3 must be clear of the bacterial organism that causes typhoid / paratyphoid fever (delete as appropriate).

These 3 faecal specimens need to be collected at least 2 lours apart. You need to provide the first specimen at least 48 hours after you finish our course of antibiotics, and more than one month after the start of your illness.

Collection of these specimens can be organised through the hospital, if you were admitted for your illness, or through your GP. We can assist in organising this, or if neither of these options is possible, make another arrangement. Please contact me to organise the testing.

Remember that typhoid and paratyoloid can be passed from person-to-person and from a person contaminating food, so you must be very careful with hygiene until it is determined that you are no longer carrying the organism in your bowel (that is, you are found to be "clear" of the ofection). I have attached an information sheet about preventing the spread of typhoid and paratyphoid. Also attached is an information sheet with more specific details about typhoid and paratyphoid fever.

Please contact me if you have any questions or concerns.

Yours sincerely

Staff member's name Staff member's position

Telephone: 08

Email: @health.wa.gov.au

Date:

Att:.



Following on from your cholera / Shigella dysenteriae (delete as so) ropriate) infection, this letter explains Department of Health requirements for testing to check that you no longer carry the infection.

Before you can return to work as a food handler, health care worker, residential care worker or child care worker, or before returning to child care you need to provide 2 faecal specimens and both must be clear of cholera / Share a dysenteriae (delete as appropriate). The 2 faecal specimens need to be collected at least 24 hours apart and collected at least 48 hours after your last diarrhoeal episode.

Collection of these specimens can be organised through the hospital, if you were admitted for your illness, or through your GP. We can assist in organising this, or if neither of these options is possible, make another arrangement. Please contact me to organise the testing.

Remember that cholera / Shigella dysenteriae (delete as appropriate) can be passed from person-to-person, so you have be very careful with hygiene until you are clear of the infection. I have attached an information sheet about preventing the spread of gastroenteritis. This top mation applies to preventing the spread of cholera / Shigella dysenteriae (delete as appropriate). Also attached is an information sheet with more specific details about cholera / Shigella infection (delete as appropriate).

Please contact me if you have any questions or concerns.

Yours sincerely

Staff member's name Staff member's position

Telephone: 08

Email: @health.wa.gov.au

Date:

Att:

You have been identified as having been in close contact with a person with typhoid paratyphoid (delete as appropriate). As typhoid / paratyphoid (delete as appropriate) is highly infectious and can cause serious illness, this letter explains Department of Health requirements for testing to check whether you also have the infection.

Before you can return to work as a food handler, health care worker residential care worker or child care worker, or before returning to child care, you (or your child) need to provide 2 faecal specimens and both must be clear of the becerial organisms that cause typhoid / paratyphoid (delete as appropriate). The specimens need to be collected at least 24 hours apart.

Collection of these faecal specimens can be organised through your GP, with our assistance. If this option is not possible you can contact me to organise the testing.

You must be extra careful with hygiene in know that both of your test results are negative. I have attached an information sheet about preventing the spread of gastroenteritis. This information applies to preventing the spread of typhoid and paratyphoid. Also attached is an information sheet with more specific details about typhoid and paratyphoid fever.

Please contact me if you have my questions or concerns.

Yours sincerely

Staff members name Staff member's position Telephone: 08

Entail: @health.wa.gov.au

Date:

Att.

You have been identified as having been in close contact with a person with Shigella dysenteriae / typhoid / paratyphoid / cholera (delete as appropriate) infection.

As Shigella dysenteriae / typhoid / paratyphoid / cholera (delete a appropriate) is highly infectious and can cause serious illness, you must be very careful with hygiene before preparing or eating food and after going to the tollet. If you develop fever, diarrhoea, nausea, vomiting, abdominal pain or feetil you should see your doctor and inform them that you have been in contact with a person with Shigella dysenteriae / typhoid / paratyphoid / cholera (delete as appropriate).

I have attached an information sheet about prevening the spread of gastroenteritis. This information applies to preventing the spice of Shigella dysenteriae / typhoid / paratyphoid / cholera (delete as appropriets). Also attached is an information sheet with more specific details about Shigella injection / typhoid and paratyphoid / cholera (delete as appropriate).

Please contact me if you have destions or concerns.

Yours sincerely

Staff member's name Staff members position Telephone 08 ବ୍ଲା alth.wa.gov.au