

Case Studies

Year	Location of reported case	Presentation details	Strain	Travel destination	Suspected source	Reference
1993	Denmark	11 cases of cholera. Most of them are Danish tourists or immigrants visiting relatives in south east Asia.		Thailand, Bali, Philippines and Pakistan		Statens Serum Institute, http://www.ssi.dk/sw2912.asp
1994	Denmark	One imported cholera case		Turkey		Statens Serum Institute, http://www.ssi.dk/sw2912.asp
1994	United states	56-year-old male and his 51-year old wife, resident of Illinois was visiting relatives in Indiana. Watery diarrhoea, nausea and vomiting.	V. Cholerae O1, Ogawa, El Tor		Food (probably palm fruit) imported from El Salvador	MMWR, May 26, 1995, 44 (20): 395-396
1995	British Columbia, Canada	38 year old man was admitted to hospital with vomiting and rice-water stools a few hours after returning from visiting family in San Salvador.	V. Cholerae O1, Ogawa, El Tor	El Salvador	Unidentified	DH Werker, MD, BC Federal Field Epidemiologist, AS King, Epidemiology Services, BC Centre for Disease Control, MT Kelly and T Matheson, BC Provincial Laboratory, AA Bell, MD, Provincial Epidemiologist, Vancouver, B.C. Canada Communicable Disease Report Volume 22-10, 15 May 1996

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1995	British Columbia, Canada	78 year old woman became ill with vomiting and diarrhoea the day after eating a seafood meal in her hotel in Bali. She was admitted to hospital upon her return to Canada.		Bali	Seafood salad at hotel.	1996 DH Werker, MD, BC Federal Field Epidemiologist, AS King, Epidemiology Services, BC Centre for Disease Control, MT Kelly and T Matheson, BC Provincial Laboratory, AA Bell, MD, Provincial Epidemiologist, Vancouver, B.C. Canada Communicable Disease Report Volume 22-10, 15 May
1995	UK (Engl + Wales)	32 cases				www://hpa.org.uk/infections/topics_az/noids/annualtab.htm
1996	Denmark	Two cases		Tunisia and Pakistan		Statens Serum Institute, http://www.ssi.dk/sw2912.asp
1996	UK (Engl + Wales)	32 cases				www://hpa.org.uk/infections/topics_az/noids/annualtab.htm
1997	Germany	Cholera affects 4 German tourists on a short-term vacation.		Kenya, Mombassa		Statens Serum Institute, http://www.ssi.dk/sw2912.asp
1997	Germany, Dresden.	41 year old woman sought medical advice for a headache and reported diarrhoea. Symptoms had been present since patients return from Tunisia a few days previously.	V. Cholerae O1, Ogawa, El Tor	Tunisia	Raw salads and grapes eaten at the hotel.	RKI. Cholera ans Tuniesien importiert. Epidemiologisches Bulletin 1997; (38): 262-3 Reported by Wolfgang Kiehl (kiewlw@rki.de) Robert Koch-Institut, Germany Eurosurveillance Weekly 1997;1 (25): 16/10/1997
1997	Netherlands	2 women (mother and daughter)	V. cholerae O1 El Tor serotype Ogawa	Pakistan		Infectieziekten Bulletin 8.10.1997

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1997	UK (Engl + Wales)	33 cases				www://hpa.org.uu/infections/topics_az/noids/annualtab.htm
1997	UK	57 yr old lady with onset during the flight of very severe watery diarrhoea and vomiting. She had severe dehydration and hypovolaemic shock.	V. Cholerae O1, Ogawa, El Tor	India		Dr Robert N Davidson [Infection and Tropical Medicine] Imperial College School of Medicine at St.Mary's, Norfolk Place, LONDON W2 1PG r.n.davidson@ic.ac.uk
1998	Germany	4 tourists. Three became ill in Kenys with violent diarrhoea, dehydration and hypovolaemic shock. Fourth man symptoms after return.	V. Cholerae O1, Ogawa, El Tor	Kenya, Mombassa		Reported by Wolfgang Kiehl (KiehlW@rki.de) Robert-Koch Institute, Germany Eurosurveillance Weekly 1998;2 (6): 05/02/1998
1998	Great Brittan	Became ill on the fifth day	V. Cholerae O1, El Tor Ogawa	Coast of Kenya		Reported by Michael Painter, consultant in communicable disease control, PHLS North West, Manchester, England (Fax: +44 (0)161-236 4937) Eurosurveillance Weekly 1998;2 (7): 12/02/1998
1998	Great Britain	4 cases (3 of whom stayed at the same resort as the case above and the German case below				Ros Stanwell-Smith rsmith@phls.co.uk.

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1998	Great Brittan		V. cholerae O1 El Tor Ogawa	Pakistan		Rosemary Tucker, Sister, Travel Unit, PHLS, Communicable Disease Surveillance Centre RTucker@phls.co.uk ProMed, 02-OCT-1998
1998	Italy, Milan	Patient sought medical advice for diarrhoea symptoms that had started 5 days previously.	V. Cholerae O1, Ogawa, El Tor	-	Seafood salad eaten at a restaurant in Milan.	Reported by: V Carreri Regione Lombardia, Settore Igiene e Sanità, Milan, and I Luzzi, M De Vincenzi, S Salmaso (salmaso@iss.it), Istituto Superiore di Sanità, Rome, Italy Eurosurveillance Weekly 1998;2 (29): 16/07/1998
1998	Netherlands	One women, after holiday	V. cholerae O1 Ogawa	Indonesia		Infectieziekten Bulletin 9.8.1998
1998	Netherlands	One case, travelling	V. cholerae non O1 non O 139	India and Nepal		Infectieziekten Bulletin 9.8.1998
1998	Netherlands	One case	V. cholerae O1	Pakistan		Infectieziekten Bulletin 9.10.1998
1998	UK (Engl + Wales)	48 cases				www://hpa.org.uu/infections/topics_az/noids/annualtab.htm
1999	New Zealand	Two cases	V. cholerae O1, El Tor, Subtype Ogawa	Pacific Islands		Carolyn Nicol, ESR, Kenepuru Science Centre, Scientist Enteric Reference Laboratory.CAROLYN.Nicol@esr.cri.nz ProMed, 27-AUG-1999

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1999	UK (Engl + Wales)	29 cases				www://hpa.org.uu/infections/topics_az/noids/annualtab.htm
2000	Australia	One case		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2000	Canada	5 cases		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2000	Ireland Republic	One case				http://www.ndsc.ie/IDDstatistics/d287.HTML.html
2000	Japan	34 cases		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2000	Singapore	One case, 39 year old Malay male.	Vibrio cholerae 01, El Tor, Ogawa	Tanjong Pinang, Indonesia		ProMed 27-JUL-2000
2000	UK (Engl + Wales)	30 cases				www://hpa.org.uu/infections/topics_az/noids/annualtab.htm
2000	USA	4 cases		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2001	Australia	4 cases		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2001	Canada	6 cases		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003

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2001	France	3-year-old girl, suffer from diarrhea and vomiting	Vibrio cholerae O1, type Ogawa	Bali, Indonesia		Isabelle Quatresous, Direction Generale de la Sante Ministry of Health, 8 av de Segur, 75530 Paris SP, France, isabelle.quatresous@sante.gouv.fr ProMed, 13-JUL-2001
2001	France	27-year-old woman	Vibrio cholerae O1, type Ogawa	Lome, Togo		Isabelle Quatresous, Direction Generale de la Sante Ministry of Health, 8 av de Segur, 75530 Paris SP, France, isabelle.quatresous@sante.gouv.fr
2001	Germany	36 year old. Acutely ill, watery diarrhoea and vomiting, dehydration, electrolyte imbalance and acute kidney failure.	V. Cholerae O1, Inaba, El Tor	Nigeria	Four h before onset he had eaten fish brought into the country on a plane from Nigeria	Robert Koch-Institut. Sporadische Cholera-Erkrankung nach Verzehr eines aus Nigeria importierten Fisches. Epidemiologisches Bulletin 2001; 34: 261. http://www.rki.de/INFEKT/EPIBULL/EPI.HTM) Eurosurveillance Weekly 2001;5 (36): 06/09/2001
2001	Germany, Bayern.	33 year old man, suffering of Crohn's disease, Heavy watery diarrhoea.	V. Cholerae O1, Ogawa, El Tor	Pakistan	Fruit salad	Robert Koch – Institut, Epidemiologisches Bulletin Nr 49, 5 December 2003
2001	Ireland, Republic	One case				http://www.ndsc.ie/IDDstatistics/d287.HTML.html
2001	Japan	Additional 23 cases with no specific information		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2001	Japan Narita Airport	20-year-old man, diarrhoea during air-flight		Bangkok + Phuket, Thailand		The Japan Times Aug 22, 2001
2001	Japan	63-year-old-male without symptom, no travel or contact with traveller	V. cholerae El Tor Inaba	Domestic Japan		WHO WER Notifications of diseases from 30 Nov to 6 Dec 2001 (edited)

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2001	Japan	3 males 3, 21 and 30 years 2 females 27 and 74 years imported cases	V. cholerae El Tor Ogawa (4 cases) V. cholerae El Tor uspec. (1 case)	Indonesia (2), India (2), Philippines (1)		WHO WER Notifications of diseases from 30 Nov to 6 Dec 2001 (edited)
2001	New Zealand	53-year-old male	V. cholerae O1, El Tor, Subtype Ogawa	Bali Indonesia		Dr Karalyn Kalemba, Public Health Protection Office Auckland District Health Board, Auckland, New Zealand, KaralynK@adhb.govt.nz PROMed, 17-SEP-2001
2001	New Zealand	38-year-old male	V. cholerae O1, El Tor, Subtype Hikojima	China		Dr Karalyn Kalemba, Public Health Protection Office Auckland District Health Board, Auckland, New Zealand, KaralynK@adhb.govt.nz ProMed, 17-SEP-2001
2001	Russian Federation	53 cases		Domestic and imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2001	Spain	1 case		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2001	UK (Engl + Wales)	28 cases				www://hpa.org.uk/infections/topics_az/noids/annualtab.htm
2002	Australien					Weekly Epidemiologic Record 18 Oct 2002
2002	Canada					Weekly Epidemiologic Record 14 Nov 2002

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2002	Czech Republic, Pardubice	24 year old man with clinical symptoms of cholera.	V. Cholerae O1, Ogawa	India		Reported by Petr Petras (petrasi@szu.cz), Centre of Epidemiology and Microbiology, National Institute of Public Health, Prague, Czech Republic. Eurosurveillance Weekly 2002;6 (12): 21/03/2002
2002	Czech Republic, Klatovy	29 year old man. Trekking in northern Thailand	V. Cholerae O1, Inaba, El Tor	Thailand		Reported by Petr Petras (petrasi@szu.cz), Centre of Epidemiology and Microbiology, National Institute of Public Health, Prague, Czech Republic. Eurosurveillance Weekly 2002;6 (12): 21/03/2002
2002	France	2 cases		Imported		Steffen R et al Cholera: assessing the risk to travellers and identifying methods of protection. Travel Medicine and Infectious Diseases, 1:80-88, 2003
2002	Ireland, Republic	One case (0-4 years)				http://www.ndsc.ie/IDStatistics/d287.HTML.html
2002	Japan	3 imported non-fatal cases of cholera for the period 30 Nov - 14 Dec 2001; one imported non-fatal case of cholera dated 1 Jan 2002.	V. cholerae El tor Ogawa (1 st and 3rd case 2001, 4th case 2002), El tor Inaba (2nd case)	Philippines 1st case 2001, 4th case 2002 Thailand 2nd case Indonesia 3rd case.		WHO/WER Notifications of diseases received from 11-17 Jan and 25-31 Jan 2002 [edited] http://www.who.int/m/topics/wer/en/index.html
2002	Japan	55-year-old male, government employee. Watery diarrhea	Vibrio Cholerae, El Tor, Inaba	Thailand		Press release from the Health and Welfare Department of Mie-ken (Prefectural Government of Mie) Sun 31 Mar 2002 [in Japanese, translation by Akira Goto] http://www.kenkou.pref.mie.jp/TOPIC/cholera/2002_0331.htm

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2002	Netherlands	Dutch woman aged 52, who was taken ill. She spent time snorkeling. V. cholerae types other than O1 and O139 cause gastroenteritis, not cholera, this should not be considered a cholera case.	A non-O1 Vibrio cholerae. Also non-O139	Philippines		Jan K. van Wijngaarden, Inspector of Infectious Diseases, Ministry of Health, Welfare and Sports The Netherlands, J.K.van.Wijngaarden@minvws.nl ProMed, 21-FEB-2001
2002	UK (Engl + Wales)	17 cases				www://hpa.org.uu/infections/topics_az/noids/annualtab.htm
2003	China	24-year-old woman developed diarrhoea in Thailand		Thailand		XinHuanet [edited] http://news.xinhuanet.com/english/2003-12/10/content_1224753.htm Promed, 10-DEC-2003
2003	UK (Engl + Wales)	26 cases				www://hpa.org.uu/infections/topics_az/noids/annualtab.htm
2003	USA					WHO WER Notifications received from 8 to 14 Aug 2003
2003	USA, Platte County, Nebraska	One case already sick when arriving and died of multiple organ failure		Imported		Promed Mon, 6 Oct 2003
2004	Australia,Perth.	33 year old man holidaying in a well-known resort I Bali. Watery diarrhoea	V. Cholerae O1	Bali, Indonesia		Dr. Gary Dowse, Medical Epidemiologist, Communicable Disease Control Directorate, Department of Health, Western Australia gary.dowse@health.wa.gov.au •Promed, 19 Mars 2004
2004	Australia	One imported case				WHO WER, No 20, 2004, 79: 193-200

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2004	Austria, Vienna.	Two 58 year old men. Diarrhoea	V. Cholerae O1, Inaba, El Tor	India		Eurosurveillance Weekly 2004;8 (30): 22/07/2004
2004	Belgium	43 year old Indian woman, profuse diarrhoea on air-flight between London and Brussels one day after leaving India. Hypovolemic shock	V. cholera O1 serotype Inaba.	India		Dr Germaine Hanquet, germaine.hanquet@iph.fgov.be ProMed Tue 22 Jun 2004 WHO WER, No 25, 2004, 79: 229-236
2004	England / Wales	One report of cholera in the second quarter	V. Cholerae O1	Travel history unknown		CDR Weekly, Vol. 14, Number 13, 21 Oct 2004
2004	England / Wales	6 reported cases of cholera reported between July-September	V. cholerae O1 El Tor Ogawa	4 reported travel to India, 1 Pakistan and 1 did not have a country stated.		CDR Weekly, Vol. 14, Number 25, 4 Nov 2004
2004	Germany	22-year-old patient from Jena.	V. Cholerae O1 Inaba	India		Dr. Schönfeld, Institute fur Tropenmedizin, Berlin
2004	Germany , Hamburg.	49-year-old single male. Watery diarrhoea	V. Cholerae O1, Inaba, El Tor	Thailand, Phuket		Robert Koch – Institut, Epidemiologisches Bulletin Nr 25, 18 June 2004
2004	Germany	30-year old man	V. cholerae O1 El Tor Ogawa	A tour of in India		▪ Robert Koch – Institut, Epidemiologisches Bulletin Nr 49, 3 Dec 2004
2004	Hong Kong	23 year old male. Vomiting and diarrhoea	V. Cholerae O1 Inaba	India		www.info.gov.hk/dh/new/2004/Oct/041004e.htm
2004	Netherlands	One case, a woman born in 1973. Occurred in week 36.	V. Cholerae	India	Ice-cream	www.rivm.nl
2004	Russian Federation	One case				WHO WER No 30, 2004, 79:273-280

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2004	Singapore	9 case, 1 man 89 years died			Foodstands	Promed 18 Oct 2004 Reuters
2004	Sweden, Stockholm	40 year old man. Vomiting and rice-water stools, dehydration, severe cholera symptoms	V. Cholerae O1, El Tor	India		EPI-aktuellt, Vol 3, Nr 16 (15 April 2004) Informationsbladet, Smittskyddsenheten, Stockholms läns landsting nr 2, 2004
2004	Taiwan, Kaohsiung.	Man with acute diarrhoea		Manila, Philippines	Grilled seafood	Promed Wed 28 Jul 2004
2004	United States of America	One imported case				WHO WER, No.7, 2004, 79, 65-76
2004	United States of America	One imported case				WHO WER, No. 25, 2004, 79, 229-236
2004	United States of America	Two imported cases				WHO WER, No.44, 2004, 79, 393-400