

Communicable Disease Report

***Salmonella typhi* in Tower Hamlets**

Two cases of *S. typhi* infection have been reported recently from East London. The first developed gastrointestinal symptoms in mid-December and had a positive faecal sample on 16 January. The second developed a feverish illness on 6 January and was found to have a positive blood culture on 28 January. Both had eaten at a café within the district of Tower Hamlets. Samples taken from the staff of the café identified an asymptomatic excreter of *S. typhi*. Appropriate control measures have been taken. Local general practitioners and hospitals have been informed. CDSC and the local CCDC, Dr Georgia Duckworth (tel 071 377 7256), will be grateful for any further relevant information.

Vaccine associated poliomyelitis

Two cases of paralytic poliomyelitis in unimmunised adult males have recently been reported. Both were in contact with recently vaccinated infants. The presentations were similar for both men; a history of back pain and subsequent development of bilateral flaccid paralysis of the legs. The onset of symptoms was within two months of the child being vaccinated in the first case, and within one month in the second case. Poliovirus type 2, Sabin vaccine-like, was isolated from the faeces of the first case and type 3, as yet uncharacterised, isolated from the faeces of the second.

These two cases of paralytic polio bring the total number reported in England and Wales to twenty-two since 1985. Five of these cases were vaccine contacts. All five were previously healthy, unimmunised adolescent or adult household contacts of recently vaccinated infants. The risk of vaccine associated paralysis in household contacts in England and Wales between 1985 and 1991 has been estimated to be of the order of one per million vaccinations for the first dose and zero for subsequent doses.

Vaccine coverage in children aged 18 months is now 93%¹, although coverage is not as high in adults. Individuals born before 1958 may not have been immunised against polio and no opportunity should be missed to immunise them in adult life². The contacts of a recently vaccinated baby should be advised of the need for strict personal hygiene, including washing their hands after changing the baby's napkin².

References

1. White JM, Hobday SJ, Begg NT. 'COVER' (Cover of vaccination evaluated rapidly): 20. *Communicable Disease Report* 1992; 2: R12.
2. Department of Health. *Immunisation against infectious disease*. London:HMSO, 1990.

Holiday infections

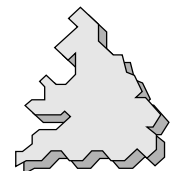
A joint Public Health Laboratory Service/Association of Medical Microbiologists seminar entitled 'Holiday infections' is to be held in the lecture theatre, Central Public Health Laboratory, Colindale on 23 April 1992 at 1.30 pm. Further details and an application form can be obtained from Dr C Roberts, PHLS HQ, 61 Colindale Avenue, London NW9 5DF. Please enclose a stamped addressed envelope.

Salmonella infections:
weeks 91/52 - 92/04

Other gastrointestinal tract infections:
weeks 91/52 - 92/04

Gastrointestinal virus infections:
weeks 91/52 - 92/04

Bacteraemia and bacterial meningitis:
weeks 91/52 - 92/04



Salmonella infections, England and Wales: laboratory reports, weeks 91/52 – 92/04

Serotype	Reports to CDSC 91/52	Reports to the PHLS (Salmonella dataset †)				Total reports 92/01-04
		92/01	92/02	92/03	92/04	
<i>S. enteritidis</i> (PT4)	111 (84) *	180 (141) *	114 (107) *	164 (133) *	197 (165) *	655 (546) *
<i>S. typhimurium</i>	36	35	69	72	77	253
<i>S. virchow</i>	7	6	14	21	11	52
<i>S. hadar</i>	1	3	8	7	8	26
<i>S. newport</i>	3	2	–	10	4	16
<i>S. bredeney</i>	4	2	1	7	2	12
Unnamed salmonella	–	4	1	2	3	10
Other serotypes	21	21	32	40	28	121
Total	183	253	239	323	330	1145

† This dataset is described in CDR volume 1, number 51. Because of the change, the figures are not directly comparable with those for 1991 from either CDSC or the Division of Enteric Pathogens (DEP).

* *S. enteritidis* PT4

Less than 10 laboratory reports of the following serotypes were recorded during weeks 91/52 to 92/04:

- 8: *S. montevideo*, *S. panama*.
 7: *S. braenderup*.
 6: *S. agona*, *S. blockley*, *S. dublin*.
 5: *S. mbandaka*, *S. saint-paul*, *S. senftenberg*, *S. thompson*.
 4: *S. anatum*, *S. livingstone*, *S. reading*, *S. stanleyville*.
 3: *S. coeln*, *S. heidelberg*, *S. java*, *S. oranienburg*, *S. schwarzengrund*, *S. stanley*.
 2: *S. bareilly*, *S. binza*, *S. emek*, *S. give*, *S. gold-coast*, *S. infantis*, *S. marina*.
 1: *S. abaetetuba*, *S. alachua*, *S. albany*, *S. altona*, *S. bovis-morbificans*, *S. brandenburg*, *S. chester*, *S. corvallis*, *S. curacao*, *S. derby*, *S. duisburg*, *S. durham*, *S. ealing*, *S. haifa*, *S. havana*, *S. hissar*, *S. hull*, *S. hvittingfoss*, *S. kedougou*, *S. kiambu*, *S. kottbus*, *S. meleagridis*, *S. muenster*, *S. nottingham*, *S. parera*, *S. poona*, *S. singapore*, *S. teko*, *S. tel-el-kebir*, *S. tyresoe*, *S. weltevreden*, *S. wien*, *S. worthington*.

Comment

S. emek: 30/30 persons had diarrhoea after a visit to Israel (3/30 persons were positive).

***S. enteritidis* PT 4**: 20/37 persons at an assessment centre were ill last November (19/37 persons). Fifty-six persons at a Forces barracks were ill last December (17/56 persons). A number of guests at a party in a pub last November had diarrhoea about 36 hours later (16/51 persons). 14/55 persons at a nursing home had diarrhoea 24-36 hours after a meal in November; all those who were ill had eaten a reportedly undercooked baked alaska made from fresh egg. 13/40 persons who attended a function at a social club last September had D&V 12-96 hours later; some of the foods had been prepared in a domestic kitchen where raw chicken and sandwiches were prepared on the same surfaces, and some items were stored for prolonged periods at room temperature. Eight persons who ate egg mayonnaise sandwiches in a restaurant last November had D&V about 12 hours later (8/8 persons). 3/6 restaurant staff (3/6 persons).

***S. typhimurium* DT 49**: 34/62 at a Forces camp had diarrhoea last December (29/56 persons).

***Clostridium perfringens* serotype 1**: 27/70 persons had diarrhoea and abdominal pain 8 hours after a Christmas dinner at which bean salad was served (8/10 persons and bean salad were positive).

Food poisoning notifications from OPCS

	Number of notifications					Total notifications 92/01-04	Cumulative total 1991
	91/52	92/01	92/02	92/03	92/04		
Formally notified §	319	454	527	495	435	1457	35307
Otherwise ascertained §	95	324	306	239	267	1136	18574

§ provisional

Typhoid and paratyphoid, England and Wales: laboratory reports, weeks 91/52 – 92/04

S. typhi: 14 cases aged 3-67 years were reported: 6 from the Indian subcontinent, 4 from Africa, 3 from SE Asia and one from the West Indies. Two excretors were reported (F 24y and female, age not stated).

***S. paratyphi* A**: 16 cases aged 12-43 years were reported: 15 from the Indian subcontinent. One case was the contact of a known case.

***S. paratyphi* B**: 2 cases were reported: one case aged 13 years had returned from the Indian subcontinent; the other, aged 73 years, had no history of foreign travel. One excretor was reported (F 83y).

Notifications: 12 cases of typhoid and 3 of paratyphoid fever were statutorily notified (weeks 91/52 - 92/04).

Other gastrointestinal tract infections, England and Wales: laboratory reports, weeks 91/52 – 92/04

Laboratory reports	Number of reports received					Total reports 92/01-04 (acquired abroad)	Cumulative total 1991§
	91/52	92/01	92/02	92/03	92/04		
<i>Campylobacter</i>	252	377	566	396	309	1648 (166)	32608
<i>Shigella</i>	148	431	371	303	257	1362 (65)	10626
Enteropathogenic <i>E. coli</i> (children <3 years)	9	11	23	16	7	57 (-)	872
<i>Aeromonas</i>	3	7	4	2	7	20 (1)	309
<i>Plesiomonas</i>	1	1	–	1	2	4 (3)	54
<i>Vibrio</i>	–	1	2	–	–	3 (3)	83
<i>Clostridium difficile</i>	11	26	21	16	17	80 (-)	822
<i>C. difficile</i> toxin		30	33	14	40	117 (-)	
<i>Yersinia</i>	3	4	5	4	4	17 (-)	446

Comment

Campylobacter: two regions reported more than 10% cases: Trent (215 cases) and W Midlands (205).

Shigella: *S. boydii* 10 (5 abroad); *S. dysenteriae* 3; *S. flexneri* 49 (28 abroad); *S. sonnei* 1448 (51 abroad).

Continuing community outbreaks of *S. sonnei* in Northern, Yorkshire, W Midlands and N Western regions, and one family outbreak of *S. flexneri*, were reported.

Notifications of dysentery for week 91/52 were 195; the cumulative total for 1991 was 9826. Notifications for weeks 92/01-04 were: 252, 285, 393 and 326, respectively.

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Aeromonas: *A. caviae* 3; *A. hydrophila* 17 (1 abroad); *A. sobria* 2; *Aeromonas sp* 1.

Plesiomonas shigelloides 5 (3 abroad).

Vibrio: *V. cholerae* non O1, 3 (all abroad).

Clostridium difficile: six regions reported more than 10% cases: Northern (10 cases), Yorkshire (12), SE Thames (15), Wessex (18), W Midlands (10) and Wales (11). Two outbreaks in hospitals were reported.

Yersinia: *Y. enterocolitica* 18 (2 abroad); *Y. frederiksenii* 1; *Y. pseudotuberculosis* 1.

Laboratory reports	Number of reports received					Total reports 92/01-04 (acquired abroad)	Cumulative total 1991§
	91/52	92/01	92/02	92/03	92/04		
<i>Cryptosporidium</i>	40	78	79	85	48	290 (9)	5163
<i>Entamoeba histolytica</i>	4	15	56	5	5	81 (47)	1004
<i>Giardia</i>	43	121	158	106	97	482 (111)	6279
<i>Blastocystis hominis</i>	1	–	5	8	–	13 (3)	246
<i>Dientamoeba fragilis</i>	–	–	4	–	–	4 (1)	69

Cryptosporidium: four regions reported more than 10% cases: Yorkshire (35 cases), Trent (41), S Western (41) and N Western (40). Eight family outbreaks were reported.

Entamoeba histolytica: two family outbreaks were reported.

Giardia: one region reported than 10% cases: SW Thames (55 cases). Seventeen family outbreaks were reported.

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Taenia 8: *T. saginata* 6, including F 50y who once kept cattle and had travelled to Africa and China in recent years; *Taenia sp* 2 (Ethiopia 1).

Trichostrongylus 3.

Trichuris 28 (Vietnam 6, Grenada, Philippines, Somalia, Uganda, one each).

Gastrointestinal virus infections, England and Wales: laboratory reports, weeks 91/52 – 92/04

Laboratory reports	Number of reports received					Total reports 92/01-04	Cumulative total 1991§
	91/52	92/01	92/02	92/03	92/04		
Adenovirus (EM faeces)	27	47	34	32	34	147	1406
Adenovirus type 40/41	2	1	1	6	–	8	89
Astrovirus	7	21	19	12	7	59	259
Calicivirus	3	7	4	1	1	13	112
Rotavirus	139	412	569	518	472	1971	13260
SRSV	7	32	40	18	16	106	709

Adenovirus (EM faeces): three regions reported more than 10% cases: Trent (42 cases), SE Thames (18) and Wales (18).

Astrovirus: five regions reported more than 10% cases: Yorkshire (12 cases), Trent (15), Oxford (8), S Western (8), N Western (8).

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Calicivirus: one outbreak was reported in a residential home for the mentally handicapped.

Rotavirus: three regions reported more than 10% cases: Yorkshire (266 cases), W Midlands (240) and N Western (282). Twenty-one outbreaks were reported: 20 family outbreaks

and one in a psychogeriatric ward.

SRSV: five regions reported more than 10% cases: Northern (12 cases), Yorkshire (22), SE Thames (15), SW Thames (14) and N Western (13).

Fourteen outbreaks were reported: 6 in old people's homes/geriatric wards, 3 in hospitals, one in a residential home, one at a restaurant, one at an outdoor education centre, one at a staff Christmas party and one in a group of people returning from Tenerife.

Bacteraemia and bacterial meningitis, England and Wales: laboratory reports, weeks 91/52 – 92/04

Laboratory reports	No. of reports received		Age		Total received 91/52 - 92/04	Cumulative total 1991
	Blood only	CSF only or CSF & blood	<1m	≥65y		
<i>Citrobacter sp</i>	23	–	1	12	23	208
<i>Enterobacter sp</i>	93	1	3	53	94	951
<i>Escherichia coli</i>	748	4	18	471	752	7681
<i>Klebsiella sp</i>	162	–	2	84	162	1664
<i>Proteus sp</i>	144	–	–	93	144	1343
<i>Salmonella sp</i>	28	1	–	15	29	309

Bacteraemia

Citrobacter sp: *C. freundii* 19; *C. koseri* 1; *Citrobacter sp* 3. *C. freundii*, female, age not stated, on haemodialysis.

Enterobacter sp: *E. aerogenes* 10; *E. agglomerans* 9; *E. cloacae* 59; *E. gergoviae* 1; *E. sakazakii* 3; *Enterobacter sp* 11. *E. cloacae*, 2 patients, age not stated, on haemodialysis; M 64y with prosthetic heart valve had endocarditis. *Enterobacter sp*, F 71y with prosthetic heart valve. Also reported: M 64y had infected vascular graft (isolated from aspirated pus of the graft).

Escherichia coli: F 74y and female, age not stated, on haemodialysis. F 58y and F 62y both had endocarditis. M 71y, F 61y and female, age not stated, all with prosthetic heart valves. M 66y with joint prosthesis (blood and urine isolates). F 70y had septic arthritis. Five women had post partum infection, including 2 following Caesarean section.

Klebsiella sp: *K. aerogenes* 45; *K. oxytoca* 33; *K. ozaenae* 2; *K. pneumoniae* 4; *Klebsiella sp* 18. *K. oxytoca*, male, age not stated, on haemodialysis (*Enterobacter cloacae* also isolated).

Proteus sp: *P. mirabilis* 104; *P. morgani* 16; *P. vulgaris* 3; *Proteus sp* 11. *P. mirabilis*, F 71y had endocarditis (blood and heart valve isolates). *P. morgani*, M 80y on haemodialysis. F 88y had septic arthritis (blood and joint isolates).

Salmonella sp: *S. bredeney*, M 1y with cystic fibrosis. *S. dublin*, F 75y. *S. enteritidis* 17 (PT 4, 12): ten patients aged 1-82 years had gastrointestinal symptoms (blood and faecal isolates, 5), including M 82y who had ruptured aortic aneurysm and died. F 65y had mesenteric artery thrombosis at post mortem

(blood, faecal and urine isolates). F 26y had septic abortion (blood, faecal and genital swab isolates). Immunosuppressed F 44y had pyrexia. *S. typhimurium* 7: five patients had gastrointestinal symptoms (blood and faecal isolates, 1; blood, faecal and bone isolates, 1); M 89y had pneumonia (blood, sputum and faecal isolates). *S. virchow*, immunosuppressed M 64y (blood isolate). *Salmonella sp*, F 66y with sarcoid had gastrointestinal symptoms (blood and faecal isolates).

Also reported: *S. enteritidis* 3: F 31y died (faecal and PM spleen isolates); F 35y with chest wall abscess (aspirated pus isolate only); patient, age and sex not stated, had abscess on thigh (aspirated pus isolate). *S. infantis*, female, age not stated, (urine isolate). *S. new-haw*, F 66y (urine isolate). *S. thompson*, F 44y (urine isolate). *S. typhimurium*, M 56y (faecal and urine isolates). *S. virchow* 2: M 8y (urine isolate); male, age not stated, had abscess on chest wall (aspirated pus isolate).

Meningitis

***Enterobacter* 2:** *E. cloacae*, F 38y had meningitis following neurosurgery (blood isolate only). *Enterobacter sp*, M 54y with CSF shunt (*Pseudomonas maltophilia* also isolated).

***Escherichia coli* 5:** M 6d, M 13d, M 1m and M 1m (all CSF and blood isolates). F 6d with IV-line had meningitis (blood isolate only).

Salmonella infantis: M 1y.

Laboratory reports	Total bacteraemia	UTI/GU surgery (pregnant)	Biliary tract disease (ERCP)	Intravascular lines	Leukaemia/bone marrow suppression (with IV-lines)
<i>Citrobacter sp</i>	23	4 (–)	–	2	2 (–)
<i>Enterobacter sp</i>	93	18 (–)	7 (–)	15	13 (2)
<i>Escherichia coli</i>	748	278 (4)	76 (8)	9	65 (7)
<i>Klebsiella sp</i>	162	38 (–)	18 (3)	10	32 (4)
<i>Proteus sp</i>	144	67 (–)	4 (1)	3	4 (–)

Data are for England and Wales only, unless otherwise stated.

Weekly numbers are provisional and should not be used to indicate trends