

Salmonella infections, England and Wales: laboratory reports weeks 91/44 – 47

Serotype	Reports to CDSC					Reports from DEP
	91/44	91/45	91/46	91/47	Total	Total
<i>S. enteritidis</i> (PT4)	455 (371) *	616 (509) *	598 (509) *	375 (326) *	2044 (1715) *	1979 (1696) *
<i>S. typhimurium</i>	143	171	136	103	553	498
<i>S. virchow</i>	11	34	25	9	79	75
<i>S. hadar</i>	11	21	10	1	43	40
<i>S. heidelberg</i>	13	4	4	4	25	11
<i>S. agona</i>	4	10	7	3	24	22
<i>S. infantis</i>	5	5	5	7	22	22
<i>S. newport</i>	2	4	11	3	20	25
<i>S. bredeney</i>	8	4	6	–	18	17
<i>S. braenderup</i>	6	3	6	1	16	18
<i>S. panama</i>	3	4	5	1	13	10
Other serotypes	32	50	29	28	139	220
Total	693	926	842	535	2996	2937

* *S. enteritidis* PT4

Less than 10 laboratory reports of the following serotypes were received by CDSC during this period:

- 9: *S. montevideo*.
 8: *S. anatum*, *S. mbandaka*, *S. stanley*.
 6: *S. blockley*, *S. derby*, *S. saint-paul*.
 5: *S. bareilly*, *S. brandenburg*, *S. corvallis*, *S. give*, *S. kedougou*, *S. livingstone*, *S. thompson*.
 4: *S. ohio*.
 3: *S. bovis-morbificans*, *S. indiana*, *S. oranienburg*.
 2: *S. cerro*, *S. emek*, *S. manhattan*, *S. muenster*, *S. senftenberg*, *S. taksony*.
 1: *S. aberdeen*, *S. alachua*, *S. arechavaleta*, *S. bangkok*, *S. berta*, *S. chailey*, *S. chester*, *S. coleypark*, *S. cubana*, *S. duisburg*, *S. gaminara*, *S. glostrup*, *S. gold-coast*, *S. haardt*, *S. haifa*, *S. hartford*, *S. hindmarsh*, *S. jamaica*, *S. java*, *S. javiana*, *S. kintambo*, *S. kottbus*, *S. litchfield*, *S. liverpool*, *S. marina*, *S. miami*, *S. napoli*, *S. singapore*, *S. sofia*, *S. weltevreden*.

Comment

***S. enteritidis* PT 4:** 78/123 persons had D&V after a wedding reception (41 persons were positive). Thirty-eight persons had diarrhoea after a meal at a factory canteen (4 persons were

positive). 36/70 persons at a meeting were ill (22 persons were positive). 6/130 residents of a private nursing home had D&V 24-48 hours after a liquidised meal (6 persons and liquidiser were positive). 29 out of more than 100 persons had diarrhoea after a meal at a hotel; analysis of food histories suggested melon was the likely source of infection (16 persons were positive).

***S. stanley*:** 13/100 persons had D&V after a meal at a private function (8 persons were positive).

***S. typhimurium* DT 49:** at least 33 persons had diarrhoea after eating filled rolls and cakes containing artificial cream bought from a bakery (44 persons and cream horn were positive). **DT 203:** at least 21 persons from England, Wales and Scotland had diarrhoea after holiday weekends at hotels in Blackpool; all had been supplied with cooked meat prepared by a local butcher's shop (11 persons were positive). **Untyped:** 70 persons had abdominal pain and nausea two days after a lunch at a hotel; investigation implicated freshly prepared lemon mousse as the likely source of infection (11 persons were positive).

***Bacillus cereus* (serotype 12):** 4 persons had projectile vomiting 2-10 hours after a meal at a Chinese restaurant (4 persons and cooked chicken were positive).

Food poisoning notifications from OPCS

	Number of notifications				Total notifications 91/44-47	Cumulative total 1991
	91/44	91/45	91/46	91/47		
Formally notified §	738	717	731	678	2864	32589
Otherwise ascertained §	406	370	366	341	1483	17202

§ provisional

Typhoid and paratyphoid, England and Wales: laboratory reports, weeks 91/44 – 47

***S. typhi*:** 19 cases aged 3-52 years were reported; 13 from the Indian subcontinent, 2 from Africa, 1 from the Far East and 1 from Europe. Two cases apparently acquired their infection in the UK. Four excreters were reported (M21y, M64y, F6y, F25y). One carrier was reported (F49y).

***S. paratyphi* A:** 8 cases aged 9-31 years were reported; 7 from the

Indian subcontinent. One case acquired infection in the UK.

***S. paratyphi* B:** 4 cases aged 11 months - 56 years; 2 from Asia and 1 from Africa. One case acquired infection in the UK. Two excreters were reported (F86y, F92y).

Notifications: 25 cases of typhoid and 8 of paratyphoid fever were statutorily notified (weeks 91/44-47).

Other gastrointestinal tract infections, England and Wales: laboratory reports, weeks 91/44 – 47

Laboratory reports	Number of reports received				Total reports 91/44-47 (acquired abroad)	Cumulative total 1991
	91/44	91/45	91/46	91/47		
<i>Campylobacter</i>	507	681	615	548	2351 (288)	30235
<i>Shigella</i>	257	297	531	250	1335 (107)	8870
Enteropathogenic <i>E.coli</i> (children <3 years)	22	36	31	30	119 (1)	783
<i>Aeromonas</i>	8	12	6	6	32 (6)	291
<i>Plesiomonas</i>	–	2	–	–	2 (2)	47
<i>Vibrio</i>	1	3	2	2	8 (7)	75
<i>Clostridium difficile</i>	13	22	8	5	48 (–)	758
<i>Yersinia</i>	6	19	10	5	40 (4)	414

Comment

Campylobacter: one region reported more than 10% cases: W Midlands (266 cases). Thirty outbreaks were reported: 29 family outbreaks and one in a rest home for the elderly.

Shigella: *S. boydii* 11 (9 abroad); *S. dysenteriae* 7 (3 abroad); *S. flexneri* 57 (33 abroad); *S. sonnei* 1260 (62 abroad).

One family outbreak of *S. flexneri* was reported. Community outbreaks of *S. sonnei* in Northern region and Wales, and continuing community outbreaks in Yorkshire, Trent and N Western regions were reported.

Notifications of dysentery for this period were: 273, 279, 359 and 400 respectively; the cumulative total for 1991 is 7962.

Aeromonas: *A. caviae* 7; *A. hydrophila* 10 (1 abroad); *A. sobria* 12 (5 abroad); *Aeromonas sp 3*.

Plesiomonas shigelloides 2 (both abroad).

Vibrio: *V. cholerae* non O1, 6 (5 abroad); *V. fluvialis* 1 (abroad); *V. parahaemolyticus* 1 (abroad).

Clostridium difficile: three regions reported more than 10% cases: Yorkshire (18 cases), SE Thames (6) and Wessex (12). One family outbreak was reported.

Yersinia: *Y. enterocolitica* 37 (3 abroad); *Y. frederiksenii* 2 (1 abroad); *Yersinia sp 1*.

Cryptosporidium: three regions reported more than 10% cases: SE Thames (47 cases), Wessex (56) and N Western (63). Fifteen outbreaks were reported: 14 family outbreaks and one in a nursery.

Giardia: one region reported more than 10% cases: Wessex (65 cases). Fifteen family outbreaks were reported.

Taenia 8: *T. saginata* 2 (USSR 1); *Taenia sp 6* (India, Spain 1 each).

Trichostrongylus sp 1.

Trichuris 24 (Bangladesh 3, Angola, Pakistan 2 each, Yemen, Africa 1 each).

Laboratory reports	Number of reports received				Total reports 91/44-47 (acquired abroad)	Cumulative total 1991
	91/44	91/45	91/46	91/47		
<i>Cryptosporidium</i>	84	123	105	103	415 (17)	4746
<i>Entamoeba histolytica</i>	6	10	14	11	41 (27)	850
<i>Giardia</i>	119	186	156	142	603 (120)	5586
<i>Blastocystis hominis</i>	1	7	4	1	13 (4)	194
<i>Dientamoeba fragilis</i>	–	1	–	–	1 (–)	52

Gastrointestinal virus infections, England and Wales: laboratory reports, weeks 91/44 – 47

Laboratory reports	Number of reports received				Total reports 91/44-47	Cumulative total 1991
	91/44	91/45	91/46	91/47		
Adenovirus (EM faeces)	25	40	43	39	147	1230
Adenovirus type 40/41	4	2	1	1	8	81
Astrovirus	3	5	7	4	19	231
Calicivirus	–	7	3	2	12	90
Rotavirus	59	101	131	103	394	12197
SRSV	8	22	20	18	68	631

Adenovirus (EM faeces): two regions reported more than 10% cases: Trent (35 cases) and W Midlands (16).

Adenovirus 40/41: Northern region reported 5 cases.

Astrovirus: three regions reported more than 2 cases: Trent (5), S Western (5) and N Western (4).

Calicivirus: N Western region reported 6 cases.

Rotavirus: three regions reported more than 10% cases:

Yorkshire (90 cases), Trent (56) and W Midlands (56).

Five outbreaks were reported: 4 family outbreaks and one in a residential home.

SRSV: four regions reported more than 10% cases: Yorkshire (11 cases), S Western (10), W Midlands (11) and N Western (19). One hospital outbreak was reported.

Bacteraemia and bacterial meningitis, England and Wales: laboratory reports, weeks 91/44 – 47

Laboratory reports	No. of reports received		Age		Total received	Cumulative total 1991
	Blood only	CSF only or CSF & blood	<1m	≥65y		
<i>Citrobacter sp</i>	17	–	–	8	17	192
<i>Enterobacter sp</i>	76	–	3	29	76	862
<i>Escherichia coli</i>	641	6	12	388	647	7028
<i>Klebsiella sp</i>	135	1	5	59	136	1502
<i>Proteus sp</i>	113	–	1	75	113	1221
<i>Salmonella sp</i>	45	–	1	20	45	283

Bacteraemia

Citrobacter sp: *C. freundii* 11; *C. koseri* 3; *Citrobacter sp* 3.

Enterobacter sp: *E. aerogenes* 6; *E. agglomerans* 7; *E. cloacae* 48; *E. sakazakii* 1; *Enterobacter sp* 14. *E. aerogenes*, premature M 13d, mother HIV-1 antibody positive. *E. agglomerans*, M 5m with burns. *E. cloacae*, F 20d with congenital heart disease; M 32y, injecting drug user; M 58y with CSF shunt (blood isolate); M 74y and F 22y on haemodialysis.

Escherichia coli: 12 neonates, including premature M 1d (blood, gastric aspirate, external ear isolates); 4 babies aged 16 days - 1 month had UTI (blood and urine isolates); F 70y had osteomyelitis (blood and bone marrow isolates); M 47y and M 71y were HIV-1 antibody positive.

Klebsiella sp: *K. aerogenes* 27; *K. oxytoca* 28; *K. ozaenae* 1; *K. pneumoniae* 52; *Klebsiella sp* 27. Male, age not stated, was HIV-1 antibody positive (blood and sputum isolates).

Proteus sp: *P. mirabilis* 78; *P. morgani* 17; *P. vulgaris* 4; *Proteus sp* 14. *P. mirabilis*, M 1d and pregnant F 26y (both blood isolates).

Salmonella sp: *S. bredeney*, female neonate (blood and faecal isolates, also isolated from mother's faeces). *S. enteritidis* 35 (PT4, 23): 7 patients aged 4 months - 73 years had gastrointestinal symptoms (blood and faecal isolates); female, age not stated, with renal failure and thrombocytopenia (blood and faecal isolates); 26 patients had blood isolate only: 2 patients (41y and 70y) had gastrointestinal symptoms. Five immunocompromised patients aged 29-85 years were reported, including

2 with leukaemia and 2 male HIV-1 antibody positive patients. M 77y with myelodysplasia had pyrexia (blood and urine isolates). *S. thompson*: F 21y with sickle cell anaemia had pyrexia (blood and faecal isolates). *S. typhimurium* 5, including 2 patients (54y and 85y) with gastrointestinal symptoms (blood and faecal isolates); *S. virchow*: M 28y had gastrointestinal symptoms (blood isolate); F 47y (whose husband had been previously reported with *S. virchow* infection) had gastrointestinal symptoms (blood and faecal isolates).

Also reported: *S. enteritidis* PT4: M 31y had haematuria (urine isolate); M 62y had urinary symptoms (urine and faecal isolates); F 10m (joint aspirate only); F 4y had urinary symptoms (urine isolate); F 24y had splenic abscess (spleen and faecal isolates); F 68y had gastrointestinal and urinary symptoms (faecal and urine isolates); 2 patients (43y and 84y) had gastrointestinal symptoms (both urine isolates). *S. typhimurium*: F 24y had gastrointestinal symptoms and F 36y with leukaemia had urinary symptoms (both urine isolate only).

Meningitis

Escherichia coli: premature female neonate (blood and CSF isolates); 2 male infants aged 1 month (CSF isolates); F 19y following head injury (CSF isolate); F 50y with ependymoma and CNS shunt (CSF isolate); M 75y (CSF and post mortem meninges isolates).

Klebsiella oxytoca: F 8d (blood, CSF and urine isolates).

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>	17	6 (–)	2 (–)	–	5 (–)
<i>Enterobacter sp</i>	76	6 (–)	6 (1)	8	13 (7)
<i>Escherichia coli</i>	641	243 (3)	60 (1)	12	62 (5)
<i>Klebsiella sp</i>	135	31 (–)	18 (–)	16	20 (3)
<i>Proteus sp</i>	113	59 (–)	5 (–)	2	6 (–)

Unusual infections

Bacillus sp: M 57y had lobectomy for lung abscess (blood isolate).

Campylobacter sp: *C. jejuni*, M 44y with leukaemia (blood and faecal isolates). *Campylobacter sp*, M 75y had no gastrointestinal symptoms (blood isolate).

Gardnerella vaginalis: F 44y had hysterectomy (blood isolate).

Hafnia alvei: M 77y with obstructive jaundice and fever (blood isolate).

Kluyvera sp: M 68y (blood isolate).

Moraxella phenylpyruvica: M 70y had abscess in neck (isolate from aspirated pus).

Providencia stuartii 2: M 62y had urinary tract infection; F 44y with urinary catheter (both blood isolates).

Shigella sp: *S. flexneri*, F 53y had gastrointestinal symptoms (blood isolate). *S. sonnei*, 18y, sex not stated, had gastrointestinal symptoms (blood and faecal isolates).

Yersinia enterocolitica: M 25y (blood isolate).

From week 91/01, data in CDR will be from England and Wales only, unless otherwise stated.

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