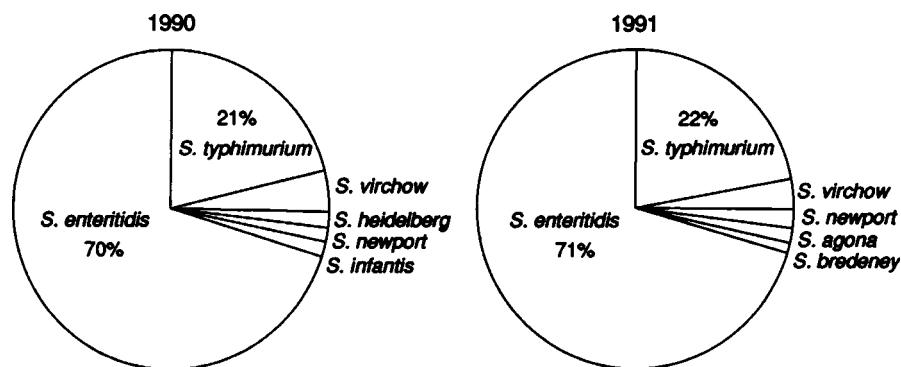


Communicable Disease Report

Salmonella surveillance

A comparison of the most commonly reported salmonella serotypes for the first three quarters of 1990 and 1991 shows no change in ranking of the top three species ie, *S. enteritidis*, *S. typhimurium* and *S. virchow*. *S. hadar*, *S. heidelberg*, *S. infantis*, *S. montevideo* and *S. newport* continue to find a place in the top ten but in a different order, whereas *S. kedougou* and *S. panama* have given way to *S. agona* and *S. bredeney*. Three general outbreaks have been associated with the latter two species: two were due to *S. agona*, including one in a maternity unit, and one in a mental hospital was due to infection with *S. bredeney*. The figure shows the proportions of reports due to the top six serotypes for the two nine-month periods. The total number of salmonellas reported has fallen slightly since last year. The four-weekly listing is on page 200.



Legionellosis update

Sixty-six cases of legionellosis have been reported to the national surveillance scheme for legionnaires' disease at CDSC with dates of onset during 1991 (to week 43). Sixty patients had legionnaires' disease (pneumonic legionellosis) and six had Pontiac fever (non-pneumonic legionellosis). Forty-one of the cases were associated with travel (38 abroad and 3 in this country) and four were hospital associated.

Two confirmed cases of legionella infection have been diagnosed among individuals who had recently been inpatients at a hospital unit in the Mersey region. The first case occurred in a middle-aged woman who became ill in mid-September 1991 and the second in a middle-aged man who became ill in mid-October. An outbreak control committee has been set up to manage the incident. Water systems in the implicated unit have been investigated and comprehensive control measures applied. A search among recent patients and staff of the unit has not yet revealed any other associated cases. The outbreak control group would be interested to hear, through the regional epidemiologist (telephone 051 525 2323), of any suspected cases of legionellosis which could be associated with this outbreak.

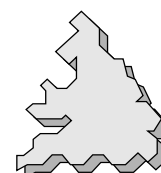
The Health and Safety Commission has recently published an approved code of practice and a revised guidance booklet on the prevention and control of legionellosis (including legionnaires' disease). These give advice to those involved in the design, building and maintenance of water systems in buildings. They, and an accompanying video, are available from HMSO and booksellers.

Salmonella infections:
weeks 91/40 - 43

Other gastrointestinal tract infections:
weeks 91/40 - 43

Gastrointestinal virus infections:
weeks 91/40 - 43

Bacteraemia and bacterial meningitis:
weeks 91/40 - 43



Salmonella infections, England and Wales: laboratory reports, weeks 91/40 – 43

Serotype	Reports to CDSC					Reports from DEP
	91/40	91/41	91/42	91/43	Total	Total
<i>S. enteritidis</i> (PT4)	524 (353) *	597 (465) *	558 (416) *	631 (491) *	2310 (1725) *	2766 (2362) *
<i>S. typhimurium</i>	148	222	213	227	810	827
<i>S. virchow</i>	17	26	23	30	96	111
<i>S. infantis</i>	7	10	12	11	40	30
<i>S. bredeney</i>	12	8	7	9	36	18
<i>S. agona</i>	6	6	6	11	29	28
<i>S. newport</i>	6	7	10	5	28	29
<i>S. hadar</i>	3	7	6	6	22	50
<i>S. heidelberg</i>	6	7	3	6	22	14
<i>S. braenderup</i>	6	3	5	3	17	22
<i>S. mbandaka</i>	–	7	2	3	12	14
<i>S. montevideo</i>	3	1	4	3	11	12
<i>S. saint-paul</i>	4	2	1	4	11	12
<i>S. panama</i>	3	3	2	2	10	6
Other serotypes	47	35	43	42	167	242
Total	792	941	895	993	3621	4181

* *S. enteritidis* PT4

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

- 9: *S. give*, *S. kedougou*, *S. ohio*.
 8: *S. brandenburg*, *S. corvallis*.
 6: *S. senftenberg*, *S. stanley*, *S. thompson*.
 5: *S. anatum*, *S. bovis-morbificans*, *S. derby*, *S. gold-coast*, *S. indiana*.
 4: *S. agama*, *S. kottbus*, *S. oranienburg*, *S. schwarzengrund*, *S. taksony*.
 3: *S. blockley*, *S. zanzibar*.
 2: *S. adelaide*, *S. bareilly*, *S. chester*, *S. coeln*, *S. hvittingfoss*, *S. java*, *S. kapemba*, *S. kiambu*, *S. manhattan*, *S. mikawasima*, *S. minnesota*, *S. poona*, *S. reading*, *S. richmond*, *S. weltevreden*.
 1: *S. albany*, *S. altona*, *S. berta*, *S. coleypark*, *S. colindale*, *S. drypool*, *S. durban*, *S. ealing*, *S. emek*, *S. glostrup*, *S. goelzau*, *S. havana*, *S. irumu*, *S. javiana*, *S. krefeld*, *S. london*, *S. meleagridis*, *S. miami*, *S. napoli*, *S. oslo*, *S. singapore*, *S. tado*, *S. tel-el-kebir*, *S. tennessee*, *S. zaiman*.

Comment

***S. enteritidis* PT 4:** 17/20 persons had D&V 12-48 hours after eating cheesecake at a dinner party; 2 people who ate remains of the cheesecake next day were also ill (8 persons were positive and *S. enteritidis* (PT untypable) was isolated from the cheesecake). 78/123 persons had gastrointestinal symptoms after a wedding reception; investigations implicated turkey as the vehicle of infection (57 persons were positive). 9/15 persons had D&V 24 hours after a party at a restaurant (9 persons were positive). **Untyped:** more than 10 persons were ill after a lunch attended by about 60 persons; the meal included Spanish omelettes cooked in the morning and stored at room temperature until rewarmed prior to the meal (4 persons were positive).
***S. hadar* PT 4:** 10 persons were ill after eating cooked meats purchased from a butcher's shop (10 persons and various cooked meats were positive).
S. newington: 8/50 persons had diarrhoea 36 hours after eating sandwiches from the same shop (8 persons were positive).
***S. typhimurium* DT 204A:** a number of persons were ill after eating various products including sandwiches, cakes and pastries prepared by the same bakery (16 persons were positive).

Food poisoning notifications from OPCS

	Number of notifications				Total notifications 91/40-43	Cumulative total 1991
	91/40	91/41	91/42	91/43		
Formally notified §	1006	910	883	832	3631	29725
Otherwise ascertained §	520	500	424	429	1873	15719

§ provisional

Typhoid and paratyphoid, England and Wales: laboratory reports, weeks 91/40 – 43

***S. typhi*:** 9 cases aged 1 - 56 years were reported; 8 from the Indian subcontinent. The other case, a child, apparently acquired infection in the UK; its mother had nursed a second child, who had typhoid fever acquired in the Indian subcontinent. One carrier was reported (M 59y).

***S. paratyphi* A:** 2 cases aged 20 and 80 years, both from the Indian subcontinent.

Notifications: 19 cases of typhoid and 11 of paratyphoid fever were statutorily notified (weeks 91/40-43).

Other gastrointestinal tract infections, England and Wales: laboratory reports, weeks 91/40 – 43

Laboratory reports	Number of reports received				Total reports 91/40-43 (acquired abroad)	Cumulative total 1991
	91/40	91/41	91/42	91/43		
<i>Campylobacter</i>	711	805	781	791	3088 (380)	27884
<i>Shigella</i>	171	206	281	317	975 (157)	7535
Enteropathogenic <i>E. coli</i> (children <3 years)	28	21	24	44	117 (2)	664
<i>Aeromonas</i>	28	15	15	9	67 (12)	259
<i>Plesiomonas</i>	2	2	2	1	7 (6)	45
<i>Vibrio</i>	5	3	3	6	17 (10)	67
<i>Clostridium difficile</i>	17	18	10	17	62 (-)	710
<i>Yersinia</i>	11	13	11	9	44 (3)	374

Comment

Campylobacter: 3 regions reported more than 10% cases: Yorkshire (322 cases), Trent (338) and W Midlands (344). Twenty-eight outbreaks were reported: 27 family outbreaks and one at a wedding reception.

Shigella: *S. boydii* 12 (7 abroad); *S. dysenteriae* 6 (2 abroad); *S. flexneri* 74 (47 abroad); *S. sonnei* 883 (101 abroad). *S. sonnei*: 34 outbreaks were reported; 31 family outbreaks, 2 community outbreaks (Trent), one in a nursery and one associated with a sandwich shop. Continuing community outbreaks in Yorkshire and N Western regions.

Notifications of dysentery for this period were 206, 174, 283 and 331 respectively; the cumulative total for 1991 is 6651.

Aeromonas: *A. caviae* 7 (2 abroad); *A. hydrophila* 34 (7 abroad); *A. sobria* 13 (2 abroad); *Aeromonas sp* 13 (1 abroad).

Vibrio: *V. cholerae* non O1, 11 (6 abroad); *V. fluvialis* 1; *V.*

parahaemolyticus 5 (4 abroad).

Clostridium difficile: 3 regions reported more than 10% cases: Northern (13 cases), Yorkshire (16) and Wessex (16).

Yersinia: *Y. enterocolitica* 42 (3 abroad); *Y. frederiksenii* 2.

Cryptosporidium: 3 regions reported more than 10% cases: Yorkshire (58 cases), Trent (55) and N Western (85). Sixteen family outbreaks were reported.

Giardia: 4 regions reported more than 10% cases: Yorkshire (68 cases), SW Thames (68), S Western (72) and N Western (67). Sixteen outbreaks were reported: 15 family outbreaks and one in a nursery.

Taenia sp 4: *T. saginata* 1; *T. solium* 1; *Taenia sp* 2.

Trichostrongylus sp 4: Pakistan 1.

Trichuris trichuria 36: (Bangladesh 5, Pakistan 2, Equador, Somalia, Vietnam, Yemen, 1 each).

Laboratory reports	Number of reports received				Total reports 91/40-43 (acquired abroad)	Cumulative total 1991
	91/40	91/41	91/42	91/43		
<i>Cryptosporidium</i>	152	166	117	102	537 (40)	4331
<i>Entamoeba histolytica</i>	10	4	7	11	32 (17)	809
<i>Giardia</i>	157	183	182	144	666 (140)	4983
<i>Blastocystis hominis</i>	1	9	1	1	12 (4)	181
<i>Dientamoeba fragilis</i>	1	1	1	-	3 (-)	51

Gastrointestinal virus infections, England and Wales: laboratory reports, weeks 91/40 – 43

Laboratory reports	Number of reports received				Total reports 91/40-43	Cumulative total 1991
	91/40	91/41	91/42	91/43		
Adenovirus (EM faeces)	24	34	24	33	115	1083
Adenovirus type 40/41	1	2	-	7	10	73
Astrovirus	2	5	-	1	8	212
Calicivirus	-	4	2	-	6	78
Rotavirus	77	40	72	88	277	11803
SRSV	15	32	17	9	73	563

Adenovirus (EM faeces): 5 regions reported more than 10% cases: Northern (15 cases), Yorkshire (16), Trent (21), S Western (13) and Mersey (13).

Adenovirus 40/41: N Western reported 3 cases.

Astrovirus: one region reported more than 2 cases: N Western (3 cases).

Rotavirus: 4 regions reported more than 10% cases: Northern (33 cases), Yorkshire (80), Trent (35) and W Midlands (46). Three family outbreaks were reported.

SRSV: 3 regions reported more than 10% cases: Yorkshire (16 cases), S Western (12) and N Western (17). Four outbreaks were reported: 2 in schools, 1 in a hospital and 1 after a fête.

Bacteraemia and bacterial meningitis, England and Wales: laboratory reports, weeks 91/40 – 43

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>	20	–	1	11	20	175
<i>Enterobacter sp</i>	66	–	2	28	66	786
<i>Escherichia coli</i>	661	2	9	420	663	6381
<i>Klebsiella sp</i>	152	–	2	71	152	1366
<i>Proteus sp</i>	98	–	1	68	98	1108
<i>Salmonella sp</i>	30	–	2	15	30	238

Bacteraemia

Citrobacter sp: *C. freundii* 14; *C. koseri* 5, including one neonate (M 14d) and F 35y with post partum infection.

Enterobacter sp: *E. aerogenes* 5; *E. agglomerans* 7; *E. cloacae* 44; *E. intermedius* 1. *E. agglomerans*, F 69y on haemodialysis. *E. cloacae*, 4 patients aged 22-53 years on haemodialysis, including F 41y with cardiac valve prosthesis. Two premature male neonates (blood and IV-line).

Escherichia coli: 3 patients aged 66-85 years with cardiac valve prosthesis, including one who had endocarditis. F 70y had pacemaker. Three patients aged 63-81 years had septic arthritis, including one with myeloma and one on haemodialysis. F 31y with brain stem tumour and CSF shunt (blood isolate only). Of 9 neonates, 3 were premature including one of a pair of twins who died (blood, umbilicus and ear isolates). F 9d with congenital heart disease.

Klebsiella sp: *K. aerogenes* 54; *K. oxytoca* 28; *K. ozaenae* 2; *K. pneumoniae* 46. *K. aerogenes*, F 56y with burns (blood and skin isolates). *K. oxytoca*, M 16d (blood and peritoneal dialysate isolates); F 77y (blood isolate) in a case of tetanus.

Proteus sp: *P. mirabilis* 60; *P. morgani* 10; *P. vulgaris* 12. *P. mirabilis*, M 21d and M 37y on haemodialysis. *P. morgani*, M 69y had subphrenic and intra-abdominal abscess (blood isolate).

Salmonella sp: *S. agona*, F 90y (blood and faecal isolates). *S. enteritidis* 22 (PT 4, 14), aged 4 days - 82 years: 12 patients had gastrointestinal symptoms and faecal isolate also. One male patient, age not stated, presented with painful hip joint (blood and faecal isolates). M 4d had pyrexia (blood and faecal isolate). F 52y with chronic hepatitis had pyrexia (blood and urine isolates). Ten patients with blood isolate

only: M 30y with sickle cell anaemia; HIV-1 antibody positive M 72y with fever; diabetic M 73y with pyrexia and urinary retention; F 68y with chronic liver disease and gastrointestinal symptoms; F 1y with febrile convulsions; M 40y with pyrexia and pneumonia; M 82y with pyrexia and pancytopenia; M 65y with myeloma and pyrexia; immunosuppressed M 46y and M 47y both had pyrexia. *S. panama*, M 71y had gastrointestinal symptoms. *S. stanley*, M 81y (blood isolate only). *S. typhimurium*: 3 patients aged 42-89 years had gastrointestinal symptoms (blood and faecal isolates). *S. virchow* 2: M 16d had pyrexia (blood and urine isolates); M 34y had pyrexia and loin pain (blood and faecal isolates).

Also reported: *S. enteritidis* 10 (PT 4, 4): M 90y had urinary symptoms (urine and faecal isolates); 9 patients aged 5-90 years had gastrointestinal symptoms (faecal isolates only). *S. hadar*, F 25y, recently returned from Indonesia, had gastrointestinal and urinary symptoms (urine isolate only; *Campylobacter sp* isolated from faeces). *S. kedougou*, F 27y (urine isolate). *S. saint-paul*, F 33y (urine and faecal isolates). *S. senftenberg*, M 63y (gall bladder and faecal isolates). *S. typhimurium*, M 10m had gastrointestinal symptoms (urine isolate only); M 80y had urinary symptoms (urine); 10 patients aged 2-70 years had gastrointestinal symptoms (faecal isolates). *S. virchow*, M 47y had gastrointestinal symptoms and was found to have gangrenous appendix (peritoneal fluid isolate); F 2y with gastrointestinal symptoms (faecal isolate).

Meningitis

Escherichia coli: M 16d and F 27d (both CSF and blood 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>	20	3 (–)	1 (–)	2	5 (1)
<i>Enterobacter sp</i>	66	8 (–)	7 (1)	8	15 (5)
<i>Escherichia coli</i>	661	257 (5)	48 (2)	14	70 (6)
<i>Klebsiella sp</i>	152	25 (–)	21 (2)	12	29 (7)
<i>Proteus sp</i>	98	56 (–)	1 (1)	3	3 (2)

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