

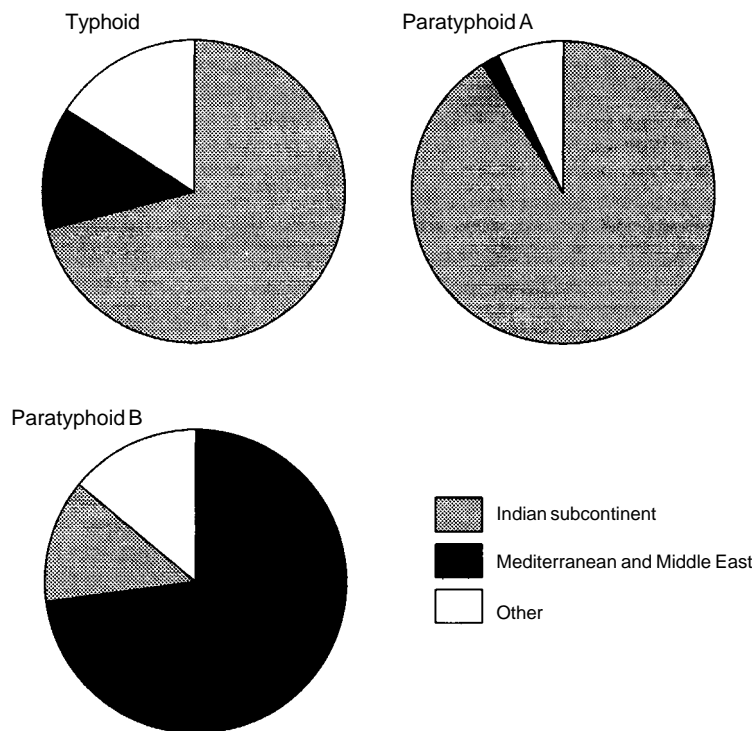
Communicable Disease Report

Enteric fever England and Wales 1981 - 90

During the 10 year period 1981-90, 1686 cases of typhoid fever in England and Wales were ascertained by collating and matching data received from the Division of Enteric Pathogens, Colindale, microbiology laboratories and notifications to OPCS. Infection was contracted abroad in 1502 cases (89%) and of these cases more than 70% were infected in the Indian subcontinent; less than 15% were infected in Mediterranean and Middle East countries (Figure). The remainder acquired infection in Africa, the Far East and other parts of the world.

During the same period 611 cases of paratyphoid A fever were ascertained. Infection was contracted abroad in 591 cases (97%) and of these cases more than 90% were infected in the Indian subcontinent. About 2% were infected in Mediterranean and Middle East countries. Most of the remainder contracted their infection in the Far East.

Figure: Proportion of cases infected abroad by geographical area



A smaller number of cases of paratyphoid B infection were ascertained (408 cases). About two thirds of the cases (264) were infected abroad and of these almost three quarters were infected in Mediterranean and Middle East countries. About 10% were infected in the Indian Subcontinent and a similar proportion contracted infection in S America.

Salmonella infections:

weeks 91/12 - 15

Other gastrointestinal tract infections:

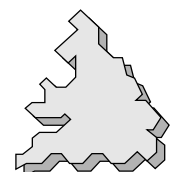
weeks 91/12 - 15

Gastrointestinal virus infections:

weeks 91/12 - 15

Bacteraemia and bacterial meningitis:

weeks 91/12 - 15



Salmonella infections, England and Wales: laboratory reports weeks 91/12 – 15

| Serotype | Reports to CDSC | | | | | Reports from DEP |
|-----------------------------|-----------------|------------|----------|-------------|-------------|------------------|
| | 91/12 | 91/13 | 91/14 | 91/15 | Total | Total |
| <i>S. enteritidis</i> (PT4) | 94 (67) * | 135 (121)* | 67 (71)* | 151 (110) * | 447 (369) * | 675 (603)* |
| <i>S. typhimurium</i> | 37 | 38 | 18 | 33 | 126 | 148 |
| <i>S. newport</i> | 7 | 6 | 3 | 15 | 31 | 34 |
| <i>S. virchow</i> | 5 | 5 | 2 | 5 | 17 | 22 |
| <i>S. hadar</i> | 5 | – | 1 | 9 | 15 | 2 |
| <i>S. heidelberg</i> | 3 | – | – | 7 | 10 | 14 |
| Other serotypes | 30 | 29 | 8 | 35 | 103 | 146 |
| Total | 181 | 213 | 99 | 255 | 748 | 1041 |

* *S. enteritidis* PT4

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

- 8: *S. agona*.
 7: *S. saint-paul*.
 6: *S. anatum*, *S. infantis*, *S. montevideo*, *S. panama*.
 5: *S. kedougou*.
 4: *S. berta*, *S. braenderup*, *S. brandenburg*, *S. bredeney*.
 3: *S. bareilly*, *S. java*, *S. stanley*, *S. wandsworth*.
 2: *S. give*, *S. haifa*, *S. mbandaka*, *S. muenchen*,
S. oranienburg, *S. tennesse*, *S. thompson*, *S. weltevreden*.
 1: *S. arizonae*, *S. blockley*, *S. derby*, *S. herston*, *S. krefeld*,
S. lagos, *S. liverpool*, *S. llandoff*, *S. manhattan*, *S. new-haw*,
S. ohio, *S. poona*, *S. rissen*, *S. taksony*.

Comment

S. agona: outbreak at a hospital maternity unit affecting 6 babies (aged 1-8 days), 4 staff and 2 mothers.
S. enteritidis PT 4: at least 20 delegates attending a course in March had D & V (20/29 persons).
S. hadar PT 54: a number of persons had D & V following a village function in February (3/3 persons).
Clostridium perfringens serotype 68: 14 people who ate at a restaurant had diarrhoea and abdominal pain 12 hours later; beef and pork joints, pre-boiled by the wholesaler, were delivered to the caterer for roasting prior to serving (beef 2 x 10⁵ and pork 1 x 10⁷ cfu/g).

Food poisoning notifications from OPCS

| | Number of notifications | | | | Total notifications 91/12–15 | Cumulative total 1991 |
|-------------------------|-------------------------|-------|-------|-------|---------------------------------|--------------------------|
| | 91/12 | 91/13 | 91/14 | 91/15 | | |
| Formally notified # | 368 | 393 | 334 | 437 | 1532 | 6522 |
| Otherwise ascertained # | 202 | 208 | 162 | 262 | 834 | 3066 |

provisional

Typhoid and paratyphoid, England and Wales: laboratory reports weeks 91/12 - 15

S. typhi: 11 cases aged 2-62 years were reported; 10 were from the Indian subcontinent and one from South America. Three excreters (M 1y, F 1y and M 21y) were reported.

S. paratyphi A: 2 cases aged 6 and 41 years were reported; one case, in the 6 year old, was home acquired, source unknown, the other was from the Indian subcontinent.

Two excreters reported (M 7y and F 30y).

S. paratyphi B: one home acquired case, in a 22 year old male, was reported, as was one excreter (female, age not stated) from the same household and one carrier (F 94y). Notifications: 4 cases of typhoid and 1 of paratyphoid fever were statutorily notified (weeks 91/12-15).

Other gastrointestinal tract infections: weeks 91/12 – 15

| Laboratory reports | Number of reports received | | | | Total reports 91/12–15 (acquired abroad) | Cumulative total 1991 |
|--|----------------------------|-------|-------|-------|--|--------------------------|
| | 91/12 | 91/13 | 91/14 | 91/15 | | |
| <i>Campylobacter</i> | 431 | 453 | 226 | 427 | 1537 (117) | 5781 |
| <i>Shigella</i> | 92 | 245 | 114 | 106 | 557 (54) | 1656 |
| Enteropathogenic <i>E. coli</i> (children <3 years) | 12 | 5 | 3 | 12 | 32 (–) | 170 |
| <i>Aeromonas</i> | 3 | 1 | 1 | 6 | 11 (5) | 49 |
| <i>Plesiomonas</i> | 2 | – | – | 3 | 5 (3) | 18 |
| <i>Vibrio</i> | 1 | – | – | 1 | 2 (2) | 10 |
| <i>Clostridium difficile</i> | 28 | 22 | 13 | 26 | 89 (–) | 272 |
| <i>Yersinia</i> | 4 | 12 | 3 | 7 | 26 (–) | 104 |

Comment

Campylobacter: 11 family outbreaks were reported.

Shigella: *S. boydii* 8 (5 abroad); *S. dysenteriae* 1 (abroad);

S. flexneri 39 (10 abroad); *S. sonnei* 509 (38 abroad).

S. sonnei: one outbreak was reported in a home for battered wives (23/65 positive). 66 family outbreaks were reported.

Community outbreaks are continuing in Bristol, Salford/Manchester, Great Grimsby, Bradford and Haverfordwest.

Notifications of dysentery for this period were: 207, 181, 57 and 133 respectively; the cumulative total for 1991 is 1678.

Aeromonas: *A. hydrophila* 9 (4 abroad); *A. sobria* 2 (1 abroad).

Plesiomonas shigelloides 5 (3 abroad).

Vibrio parahaemolyticus 2 (both abroad).

Clostridium difficile: 2 regions reported more than 10%

cases: Yorkshire (37 cases) and Wessex (11).

One hospital outbreak was reported (3/5 positive).

Yersinia: *Y. enterocolitica* 20; *Y. frederiksenii* 4, *Yersinia sp* 2.

Cryptosporidium: 3 regions reported more than 10% cases: SW Thames (67 cases), S Western (50) and N Western (46).

Seven family outbreaks were reported.

Giardia: 2 regions reported more than 10% cases: NE Thames (49 cases) and S Western (37).

Six family outbreaks were reported.

Entamoeba histolytica: 3 family outbreaks were reported.

Taenia sp. 5

Trichostrongylus 4.

Trichuris 29 (Bali, Bangladesh, Iraq, Mexico, Nigeria, Philippines, S Africa, Somalia and Zaire 1 each).

| Laboratory reports | Number of reports received | | | | Total reports 91/12-15 (acquired abroad) | Cumulative total 1991 |
|------------------------------|----------------------------|-------|-------|-------|--|-----------------------------|
| | 91/12 | 91/13 | 91/14 | 91/15 | | |
| Cryptosporidium | 108 | 124 | 69 | 130 | 431 (8) | 1334 |
| <i>Entamoeba histolytica</i> | 4 | 65 | 10 | 13 | 92 (52) | 287 |
| <i>Giardia</i> | 92 | 125 | 53 | 93 | 363 (98) | 1541 |
| <i>Blastocystis hominis</i> | 1 | 8 | 3 | 2 | 14 (-) | 48 |
| <i>Dientamoeba fragilis</i> | - | 1 | - | - | 1 (-) | 16 |

Gastrointestinal virus infections, England and Wales: laboratory reports weeks 91/12 - 15

| Laboratory reports | Number of reports received | | | | Total reports 91/12-15 | Cumulative total 1991 |
|------------------------|----------------------------|-------|-------|-------|------------------------------|-----------------------------|
| | 91/12 | 91/13 | 91/14 | 91/15 | | |
| Adenovirus (EM faeces) | 21 | 35 | 13 | 34 | 103 | 413 |
| Adenovirus type 40/41 | - | 2 | 4 | - | 6 | 26 |
| Astrovirus | 3 | 4 | 3 | 3 | 13 | 160 |
| Calicivirus | 2 | 2 | - | 2 | 6 | 40 |
| Rotavirus | 440 | 451 | 269 | 341 | 1501 | 8453 |
| SRSV | 7 | 22 | 14 | 10 | 53 | 222 |

Adenovirus (EM faeces): 4 regions reported more than 10% cases: Trent (18 cases), SE Thames (14) S Western (26) and N Western (11).

Adenovirus 40/41: 4 cases were reported by N Western region.

Astrovirus: 3 cases were reported by NE Thames region.

Rotavirus: 1 region reported more than 10% cases: N Western (155 cases).

12 outbreaks were reported: 11 in families and one in a paediatric ward.

SRSV: 3 regions reported more than 10% cases: Yorkshire (8 cases), E Anglia (7) and S Western (13).

7 outbreaks were reported: 2 in hospitals, 2 in geriatric wards, 2 in nursing homes and one in an hotel, where 91/255 people attending a function were ill with diarrhoea and vomiting; (4/13 were positive).

Unusual infections

Aerococcus viridans: M 88y with urinary tract infection (blood, urine isolates).

Agrobacterium radiobacter: F 2y with IV-line, recently had bone marrow transplant (blood isolate).

Bacillus cereus: M 19y, with compound fracture of tibia, developed osteomyelitis after falling into swimming pool while in plaster of paris (blood, bone isolates).

Campylobacter sp: one patient with bacteraemia.

Diphtheroids 7: 5 patients aged 56-71 years with bacteraemia (*Corynebacterium jeikeium* 4): 3 had leukaemia/ bone marrow suppression and another had an IV-line.

C. aquaticum, M 75y with chronic renal failure (blood isolate). *C. striatum*, woman with rheumatoid arthritis and infected joint prosthesis (joint isolate).

Flavobacterium sp: M 79y after cardiac surgery (blood and IV-line tip isolates).

Providencia sp 2: *P. rettgeri*, F 93y (blood isolate). *P. stuartii*, M 62y with urinary catheter (blood isolate).

Yersinia enterocolitica: diabetic M 56y with liver abscess had preceding episode of diarrhoea (blood isolate). M 80y with multiple liver abscesses and para-aortic lymphadenopathy (liver and lymph node isolates).

Bacteraemia and bacterial meningitis, England and Wales: weeks 91/12 - 15

| Laboratory reports | No. of reports received | | Age | | Total received | Cumulative total for 1991 |
|-------------------------|-------------------------|-------------------------|-----|------|----------------|---------------------------|
| | Blood only | CSF only or CSF & blood | <1m | ≥65y | | |
| <i>Citrobacter sp</i> | 10 | – | – | 8 | 10 | 50 |
| <i>Enterobacter sp</i> | 58 | 2 | 4 | 30 | 60 | 228 |
| <i>Escherichia coli</i> | 599 | 5 | 17 | 356 | 604 | 2153 |
| <i>Klebsiella sp</i> | 134 | 3 | 2 | 71 | 137 | 451 |
| <i>Proteus sp</i> | 95 | 1 | 10 | 62 | 96 | 394 |
| <i>Salmonella sp</i> | 15 | – | 2 | 9 | 15 | 65 |

Bacteraemia

Citrobacter sp: *C. freundii* 5; *C. koseri* 1.

Enterobacter sp: *E. aerogenes* 5; *E. agglomerans* 8; *E. cloacae* 36; *E. intermedius* 1; *E. sakazakii* 1.

Escherichia coli: M 43y had pacemaker and M 62y and endocarditis. F 73y had spinal abscess and F 82y with urinary tract infection had septic arthritis.

Also reported: 2 patients aged 73 and 79 years with vertebral osteomyelitis, and M 68y with femoral osteomyelitis (all bone).

Klebsiella sp: *K. aerogenes* 43; *K. oxytoca* 21; *K. pneumoniae* 50. *K. aerogenes*, M 44y with gout and septic arthritis.

Proteus sp: *P. mirabilis* 59; *P.morganii* 16; *P. vulgaris* 5.

| 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> | 10 | 4 (–) | – | – | 1 (–) |
| <i>Enterobacter sp</i> | 58 | 13 (1) | 9 (2) | 5 | 7 (2) |
| <i>Escherichia coli</i> | 599 | 249 (10) | 61 (5) | 10 | 44 (3) |
| <i>Klebsiella sp</i> | 134 | 31 (–) | 19 (–) | 14 | 30 (5) |
| <i>Proteus sp</i> | 95 | 58 (1) | 3 (–) | 1 | 1 (–) |

Salmonella sp: *S. agama*, F 35y (blood isolate only), also from several animals on the farm. *S. enteritidis* 11 (PT 4, 6): 7 patients aged 14 days - 90 years with gastrointestinal symptoms and/or faecal isolate also; M 48y with fever after renal transplant (blood isolate only); M 71y with fever (blood isolate only); M 76y with pneumonia (blood isolate only); diabetic M 81y with leukaemia (blood only). *S. newport*, M 12d after cardiac surgery (blood isolate only).

S. typhimurium 2: F 27y with malabsorption syndrome (blood isolate only); M 46y with salmonella aortitis (blood only).

Also reported: *S. kedougou*, F 78y with urinary symptoms (urine, faeces isolates). *S. typhimurium*, M 66y (sputum isolate). *S. virchow*, M 52y with cholecystitis (gall-bladder isolate).

Meningitis

Enterobacter sp: *E. aerogenes*, M 72y with basal skull fracture and CSF leak. *E. cloacae*, F 7d.

Escherichia coli: 2 neonates; F 11m with hydrocephalus and M 50y with CSF shunt; F 46y with subdural abscess after clipping of cerebral vessel also had urinary tract infection (CSF, brain, urine isolates).

Also reported: M 61y with cerebral abscess (brain isolate).

Klebsiella sp: *K. aerogenes*, preterm M 1m and diabetic M 52y. *K. oxytoca*, M 69y after clipping of intracranial vessels.

Proteus mirabilis: F 22d.

Also reported: *Proteus sp*, F 53y with cerebral abscess (pus).

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