



International surveillance network for the enteric infections - Salmonella and VTEC O157

Funded by the European Commission under
the BIOMED 2 programme

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Enter-net Quarterly Salmonella Report - 99/4

October - December 1999

Summary.

This report gives details of the number of isolates identified by the national reference laboratories in the fourth quarter of 1999 and incorporated in the Enter-net salmonella database. Twenty countries have supplied data, of which 19 were supplied electronically. Table two details the top fifteen serotypes isolated in each Western Europe and gives comparable data for the same period in 1998 where available. Serotypes with unusual increases over the same period are shown in table one the total number of human salmonella isolates reported this quarter are 27,144 with 22,918 (84.4%) being *S. enteritidis*, *S. typhimurium*, *S. hadar* or *S. virchow*.

Quarterly data - major trends.

Details below refer to the 17 countries that have supplied comparable data for 1999 and 1998. The total number of reports in the database show a decrease over the same period in 1998, from 22,777 in 1998 to 19,401 in 1999, a fall of 14.8%. All the top four serotypes have decreased; *S. enteritidis* (11,128 isolates in the fourth quarter of 1999, 57.4% of the total) by 10.4%. *S. typhimurium* (3,306, 17.4%) by 24.9%, *S. hadar* (535 2.8%), by 21.6% and *S. virchow* (423 2.2%) by 20.6%. Nine other serotypes were identified more than 100 times during the quarter; *S. infantis* (212, 1.0%), *S. brandenburg* (191, 1.0%), *S. newport* (162, 0.8%), *S. agona* (159, 0.8%), *S. heidelberg* (134, 0.7%), *S. derby* (119, 0.6%), *S. blockley* (113, 0.6%), *S. bovismorbificans* (107, 0.6%) and *S. stanley* (102, 0.5%).

Fifteen serotypes were isolated between 50 and 99 times; *S. braenderup*, *S. livingstone*, *S. typhi*, *S. anatum*, *S. mbandaka*, *S. paratyphi B*, *S. panama*, *S. saintpaul*, *S. thompson*, *S. bredeney*, *S. muenchen*, *S. oranienberg*, *S. goldcoast*, *S. corvallis* and *S. montevideo*. These serotypes constituted a total of 1,051 isolates, 3.9% of the total. Forty-four serotypes were isolated between 10 and 49 times, 998, 5.1%, and 165 serotypes were reported less than 10 times, 376, 1.9%. Two hundred and eighty-five isolates, 1.5%, have not been fully serotyped at time of report.

March 2, 2000

All data are provisional

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Table 1
Enter-net Salmonella database –
isolates reported in Q4 1999 (Q4 1998)

Serotype	Freq	%
Enteritidis	11,128 (12,423)	57.4 (54.4)
Typhimurium	3,306 (4,400)	17.0 (19.3)
Hadar	535 (682)	2.8 (2.8)
Virchow	423 (533)	2.2 (2.3)
Infantis	212 (251)	1.1 (1.1)
Brandenburg	191 (182)	1.0 (0.7)
Newport	162 (141)	0.8 (0.6)
Agona	159 (173)	0.8 (0.7)
Heidelberg	134 (138)	0.7 (0.6)
Derby	119 (129)	0.6 (0.5)
Blockley	113 (116)	0.6 (0.4)
Bovismorbificans	107 (143)	0.6 (0.6)
Stanley	102 (108)	0.5 (0.5)
Braenderup	94 (122)	0.5 (0.5)
Livingstone	94 (94)	0.5 (0.4)
Other	2,522 (3,142)	12.9 (13.7)
Total	19,401 (22,777)	100 (100)

Table 2 Serotypes with unusual increases
this quarter and number of countries
reporting cases.

Serotype	Q4 99	Q4 98	% inc	Number of countries reporting cases
haifa	34	4	750	8
mississippi	22	8	175	4
singapore	21	8	163	4
napoli	18	7	157	3
eastbourne	19	9	111	5
meunster	23	11	109	9
corvallis	58	31	87	10

S.haifa; in the Enter-net salmonella database details are available for 32 of these isolates. Six are associated with travel, 11 Tunisia, two not known. Twenty-one are male, 10 female and one not known, four are aged between 1-5y, three 6-14y, 24 15-64y and one not known.

S.mississippi; three are associated with travel, one Dutch Antilles, one Egypt and one not stated. There are 11 males and 11 females, two are aged 0-11m, five 1-5y, one 6-14y, 13 15-64y and one not known.

S.singapore; five are travel associated, all to Thailand. There are five males and 11 females, 5 not known. Five are aged 0-11m, one 6-14y and 15 15-64y.

S.napoli; Data are available for 16 of these cases; only one is travel associated, country not stated. There are two males, two females and 14 not known, two are aged 0-11m, three 1-5y, four 6-14y, six 15-64y, one 65y+ and two not known.

S.eastbourne; Travel is stated in two of these cases, one to Indonesia and one to Kenya. There are seven males and 12

females, one aged 0-11m, four aged 1-5y, 13 aged 15-64y and one aged 65+.

S.meunster; Three cases state travel associated, one to Mexico, one to Tunisia and one not stated. There are five males, 15 females and three not known, there was one aged 0-11m, three aged 1-5y, 17 aged 15-64y and two aged 65+.

S.corvallis; Data were available for 57 of these cases. Thirteen were associated with travel, 11 to Tunisia. There were 19 males, 19 females and 19 not stated. There were two aged 1-5y, two aged 6-14y, 43 aged 15-64y, nine aged 65+ and one not known