



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

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Project Leaders Dr Noël Gill Prof Bill Reilly Dr Bernard
Rowe

Enter-net Quarterly Salmonella Report - 98/3

July - September 1998

Summary.

This report gives details of the number of isolates identified by the national reference laboratories in the third quarter of 1998 and incorporated in the Enter-net salmonella database. Twelve countries have supplied data for this database for this period in 1998 and 1997. One other country has provided the data as a paper copy. Serotypes with unusual increases during this quarter are detailed on pages two and three. Serotypes with unusual increases over the same period in 1997 are shown in the figure on page three. The table on page two gives details of the top fifteen serotypes isolated in Europe for which comparable data are available for the same period in 1997. The total number of human salmonella isolates reported this quarter are 26,219 with 22,575 (86.1%) being *S.enteritidis*, *S.typhimurium*, *S.hadar* or *S.virchow*.

Quarterly data - major trends.

The total number of reports in the database show a decrease over the same period in 1997 (-20.8%). *S.enteritidis* (17,589 isolates in the third quarter of 1998, 67.1% of the total has decreased by 18.4%, *S.typhimurium* (3,928, 15.0%) has decreased by 33.3%, *S.hadar* (558, 2.1%) has decreased by 39.4% and *S.virchow* (500, 1.9%) has decreased by 16.7%. Nine other serotypes were identified more than 100 times during the quarter, *S.infantis* (297, 1.1%), *S.heidelberg* (193, 0.7%), *S.blockley* (166, 0.6%), *S.brandenburg* (158, 0.6%) *S.agona* (156, 0.6%), *S.braenderup* (135, 0.5%), *S.derby* (120, 0.5%) *S.bovismorbificans* (105, 0.4%) and *S.newport* (103, 0.4%).

Thirteen serotypes were isolated between 50 and 99 times; *S.bredeney*, *S.typhi*, *S.livingstone*, *S.indiana*, *S.goldcoast*, *S.anatum*, *S.mbandaka*, *S.montevideo*, *S.thompson*, *S.paratyphi* A, *S.panama*, *S.saintpaul*, and *S.kentucky*. These were a total of 836 isolates, 3.2% of the total. Thirty-two serotypes were isolated between 10 and 49 times, 717, 2.7% and 143 were reported less than 10 times, 346, 1.3%. Three hundred and twelve isolates, 1.2%, have not been fully speciated at time of report.

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All data are provisional.

Co-ordinating Scientific
Secretary: **Ian Fisher**

PHLS Communicable Disease Surveillance Centre
61 Colindale Ave, London NW9 5EQ, UK
Ph: +44-181-200-6868 Fax: +44-181-200-7868
Email: ifisher@phls.co.uk

Participants

Austria

Dr Franz Allerberger
Dr Helga Halbich-Zankl
Dr Werner Thiel

Belgium

Mme Marie-Louise
Chasseur-Libotte
Dr Sabine Lauwers
Dr Frank Van Loock

Denmark

Dr Kåre Mølbak
Dr Peter Gerner-Smidt

England & Wales

Dr Sarah O'Brien
Dr Henry Smith
Dr John Threlfall
Mrs Linda Ward

Finland

Dr Petri Ruutu
Dr Anja Siitonen

France

Dr Jean-Claude Desenclos
Prof Patrick Grimont

Germany

Dr Andrea Ammon
Prof Helge Karch
Dr Helmut Tschäpe

Greece

Prof Jenny Kremastinou
Prof Nicholas Legakis

Ireland

Dr Martin Cormican

Italy

Dr Alfredo Caprioli
Dr Ida Luzzi
Dr Alberto Tozzi

Luxembourg

Dr Pierrette Huberty-Krau
Dr François Schneider

Netherlands

Dr Yvonne van
Duijnhoven
Dr Nan van Leeuwen

Norway

Dr Viggo Hasseltvedt
Dr Jørgen Lassen

Portugal

Dr Jorge Machado
Dr Teresa Paixão

Scotland

Dr John Cowden
Dr Giles Edwards
Prof Hugh Pennington

Spain

Dr Gloria Hernández Pezzi
Dr Miquel Usera

Sweden

Dr Yvonne Andersson
Dr Sven Löfdahl
Dr Ralf Wollin

Switzerland

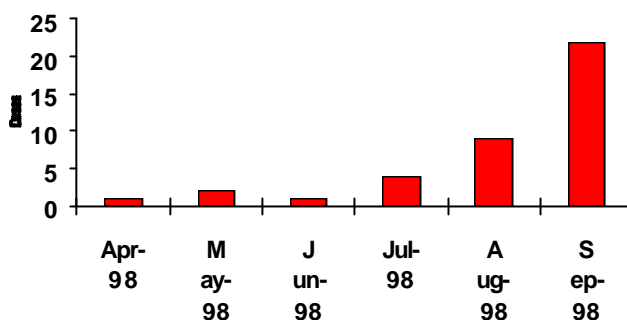
Dr André Burnens
Dr Hans Schmid

**Enter-net salmonella database -
isolates report in Q3 1998 (Q3 1997)**

Serotype	Freq	%
enteritidis	17,589 (21,544)	67.1 (65.1)
typhimurium	3,928 (5,885)	15.0 (17.8)
hadar	558 (921)	2.1 (2.8)
virchow	500 (600)	1.9 (1.8)
infantis	297 (290)	1.1 (0.9)
heidelberg	193 (225)	0.7 (0.7)
blockley	166 (68)	0.6 (0.2)
brandenburg	158 (202)	0.6 (0.6)
agona	156 (175)	0.6 (0.5)
braenderup	135 (133)	0.5 (0.4)
derby	120 (100)	0.5 (0.3)
bovismorbificans	105 (111)	0.4 (0.3)
newport	103 (146)	0.4 (0.4)
bredeney	91 (104)	0.3 (0.3)
typhi	84 (74)	0.3 (0.2)
other	2,036 (2,529)	7.9 (7.7)
Total	26,219 (33,107)	100 (100)

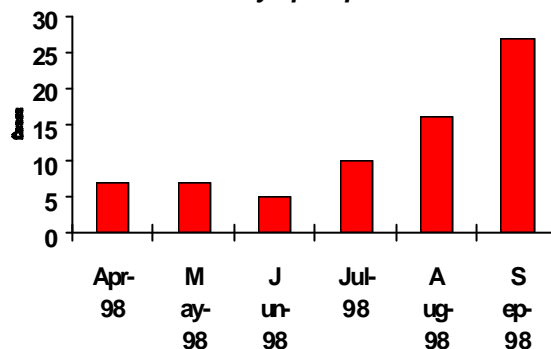
Serotypes with unusual increases this Quarter

S.corvallis Apr-Sep 1998



Of the 39 cases from April to September 1998, 9 occurred in August (two associated with travel) and 22 in September (seven associated with travel). 32/38 (84.2%, one not known) were aged 15-64, there were 21 males and 16 females, two not known. Those travel associated in August and September visited Bulgaria (one), Gambia (one), Nigeria (one), Tunisia (five) and Turkey (one).

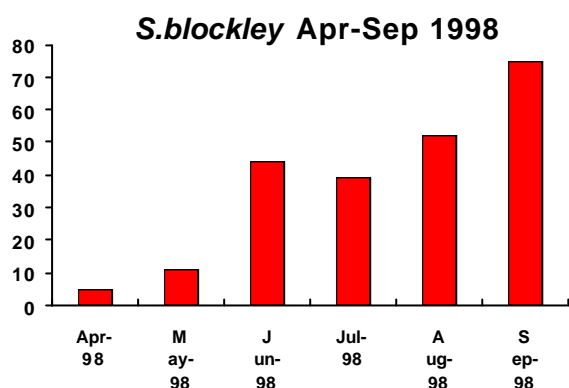
S.kentucky Apr-Sep 1998



S.kentucky: Seventy-two cases occurred in the period April to September 1998, 53 of these between July-Sept (10, 16 and 27 respectively). Of these 53, 4 were aged 5 or less, 44 aged between 15-64y and 5 over 65y. There were 31 males, 20 females and two not known. Twelve were reported as being travel associated, Australia (one), Egypt (one), India (four), Kenya (one), Thailand (two) Tunisia (three) and Turkey (one).

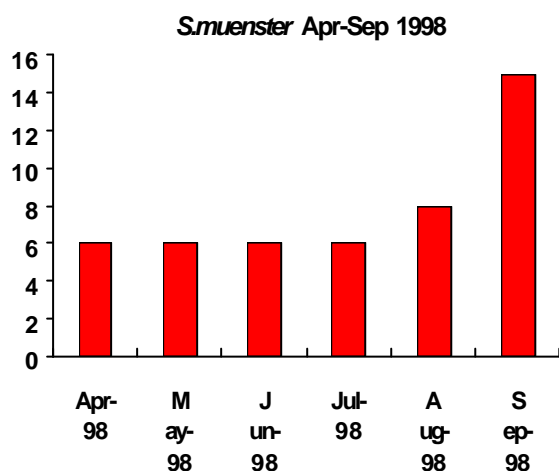
S.blockley

The increase in isolates of *S.blockley* that was reported in the monthly report for June and the report for quarter 2. Between June and September 1998 there have been a total of 210 cases reported, compared with 93 cases for the same period in 1997. The age breakdown was 10 cases (4.8%) aged 0-11m (5 cases in the same period in 1997), 19 (9.0%) aged 1-5y (13, 13 (6.2%) aged 6-14y (7), 136 (64.8%) aged 15-64y (51), 11 (5.2%) aged 65y+ and 21 (10%) unknown (10).



The male to female ratio was fairly even with 96 males to 93 females (35:36 in 1997). Thirty-one were associated with travel abroad, the countries visited were Austria (1), Cyprus (8), Algeria (1), Egypt (1), Spain (1), Greece (3), Hungary (2), Indonesia (1), Italy (1), Lebanon (2), Malta (1), Portugal (1), Thailand (4) and Turkey (4).

Investigations into the outbreak identified in Germany and the general upsurge in Europe are continuing.



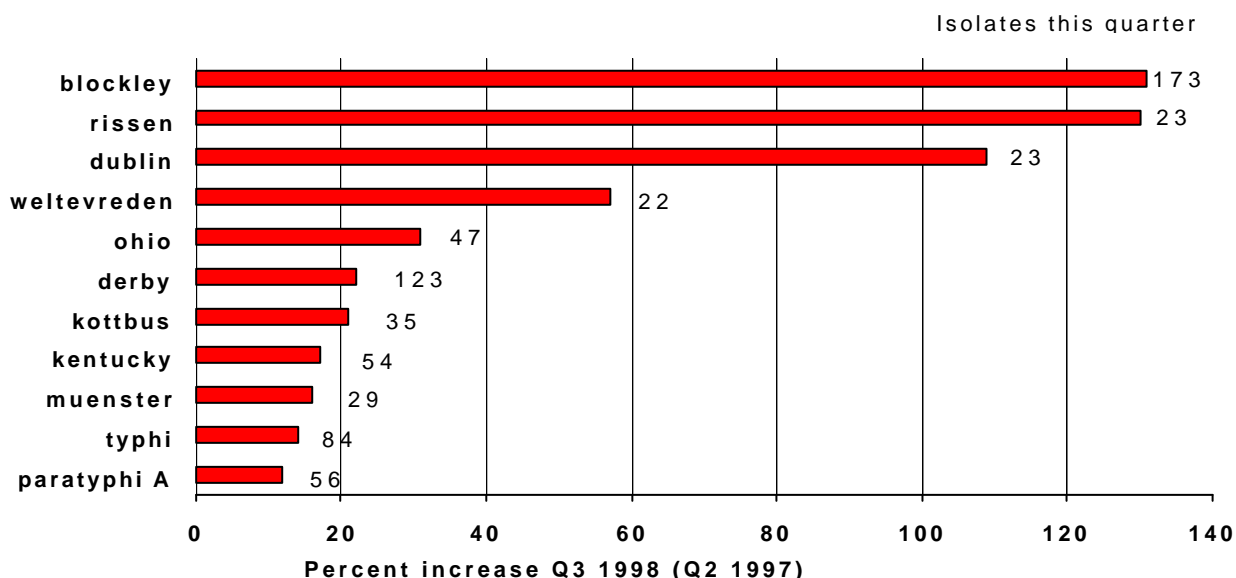
S.muenster

There have been 47 cases of this serotype in July - September 1998, compared with 31 in the same period in 1997. Thirty-five are aged 15y or over and eight aged under 15y, two are not known. There were 24 males and 22 females. Five of the cases reported an association with travel abroad in this period, four reported the country involved to be Tunisia.

quarter 3 1998 compared to Q3 1997.

Serotypes with unusual increases in

This report has been prepared by Ian Fisher, Enter-net Scientific Co-ordinator on behalf of,



and in collaboration with the participants in the Enter-net network.