



# Health Protection Report

weekly report

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## Current News

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- ▶ **National increase in new salmonella strain**

## Infection Reports

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### Enteric

- ▶ **General outbreaks of foodborne illness in humans, England and Wales: weeks 05-08 2008**
- ▶ **Salmonella infections, (faecal specimens) England and Wales: reports to the HPA (Salmonella data set), January**
- ▶ **Common gastrointestinal infections, England and Wales: laboratory reports, weeks 05-08/08**
- ▶ **General outbreaks of foodborne illness in humans, England and Wales: quarterly report, July to September 2007**
- ▶ **Salmonella infections, (faecal specimens) England and Wales: reports to the HPA (Salmonella data set), fourth quarter 2007**

# News

Last updated 14 March 2008 , Volume 2, No 11

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## ► National increase in new salmonella strain

An increasing number of *Salmonella* Typhimurium isolates showing the same undesignated phage type (PT) pattern have been received by the Health Protection Agency (HPA) Laboratory of Enteric Pathogens (LEP) since 22 February 2008. The pattern remains distinct from any currently recognised patterns in the *S. Typhimurium* phage typing scheme and has been designated PT U320.

To date, LEP has confirmed 51 human cases of *S. Typhimurium* PT U320 infection in residents of England and Wales. All isolates have been characterised as fully sensitive to antibiotics tested. Cases ranged in age from 10 months to 92 years (median 44 years) with 68% of cases female. Preliminary investigations of cases indicate onset of symptoms between 17 and 25 February (30/31 cases). One case reported travel to Egypt but outside the time frame of the current suspected outbreak.

Cases followed up to date have a national distribution, occurring in all regions (see table).

**Table 1. Regional distribution of cases**

| Region                   | Cases |
|--------------------------|-------|
| East Midlands            | 3     |
| East                     | 11    |
| London                   | 8     |
| North East               | 5     |
| North West               | 1     |
| South East               | 11    |
| South West               | 6     |
| West Midlands            | 1     |
| Wales                    | 1     |
| Yorkshire and Humberside | 4     |

The HPA Centre for Infections is currently following up cases in England and Wales to determine the source of these infections.

# Infection reports

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### General outbreaks of foodborne illness in humans, England and Wales: weeks 05-08/08

Preliminary information has been received about the following outbreaks.

| Health Protection Unit | Organism                          | Location of food prepared or served | Month of outbreak | Number ill | Cases positive | Suspect vehicle | Evidence |
|------------------------|-----------------------------------|-------------------------------------|-------------------|------------|----------------|-----------------|----------|
| SE London              | <i>Salmonella</i> Enteritidis PT1 | Restaurant                          | February          | 2          | 2              | None            | –        |
| East Midlands North    | S. Typhimurium U319               | Restaurant                          | February          | 4          | 4              | None            | –        |

### Salmonella infections (faecal specimens), England and Wales: reports to the HPA (Salmonella data set), January 2008

Details of serotypes of 613 Salmonella infections recorded in January 2008 are given in the table below. In February 2008, 370 Salmonella infections were recorded and preliminary infection was received about two outbreaks (see table above).

| Organism                            | Cases - January |
|-------------------------------------|-----------------|
| S. Enteritidis PT4                  | 43              |
| S. Enteritidis (other PTs)          | 145             |
| S. Typhimurium                      | 119             |
| S. Virchow                          | 22              |
| Others (typed)                      | 284             |
| Total Salmonella (provisional data) | 613             |

**Common gastrointestinal infections, England and Wales, laboratory reports:  
weeks 05-08/08**

| Laboratory reports            | Number of reports received |       |       |       | Total reports | Cumulative total |          |
|-------------------------------|----------------------------|-------|-------|-------|---------------|------------------|----------|
|                               | 05/08                      | 06/08 | 07/08 | 08/08 |               | 05- 08/08        | 01-08/08 |
| <i>Campylobacter</i>          | 590                        | 637   | 599   | 628   | 2454          | 4361             | 5092     |
| <i>Escherichia coli</i> O157* | 2                          | 2     | 9     | 6     | 19            | 31               | 49       |
| <i>Salmonella</i> †           | 120                        | 108   | 101   | 61    | 390           | 927              | 1550     |
| <i>Shigella sonnei</i>        | 9                          | 8     | 4     | 6     | 27            | 53               | 99       |
| Rotavirus                     | 228                        | 251   | 381   | 529   | 1389          | 1913             | 2015     |
| Norovirus                     | 90                         | 127   | 85    | 96    | 398           | 1436             | 1537     |
| Cryptosporidium               | 34                         | 31    | 22    | 37    | 124           | 218              | 293      |
| Giardia                       | 43                         | 50    | 45    | 45    | 183           | 353              | 354      |

\*Vero cytotoxin-producing isolates (data from HPA's Laboratory of Enteric Pathogens (LEP).

† Data from Health Protection Agency's Laboratory of Enteric Pathogens.

**General outbreaks of foodborne illness in humans, England and Wales: quarterly report,  
July to September 2007**

| Health Protection Unit      | Organism                          | Location of food source | Number ill | Cases positive | Suspect vehicle | Evidence |
|-----------------------------|-----------------------------------|-------------------------|------------|----------------|-----------------|----------|
| Northumberland, Tyne & Wear | <i>Escherichia coli</i> O157      | Residential institution | 25         | 5              | None            | –        |
| Greater Manchester          | <i>E. coli</i> O157               | Restaurant              | 2          | 2              | None            | –        |
| Greater Manchester          | <i>Salmonella</i> Enteritidis PT4 | Restaurant              | 4          | 2              | None            | –        |
| Cheshire & Merseyside       | <i>S. Enteritidis</i> PT5C        | Restaurant              | 6          | 3              | Various foods   | M,D      |
| SW London                   | <i>S. Enteritidis</i> PT56        | Restaurant              | 9          | 9              | None            | –        |
| West Midlands West          | <i>S. Enteritidis</i> PT8         | Restaurant              | 50         | 36             | Duck dishes     | S,M      |
| Humber                      | <i>S. Enteritidis</i> PT8         | Restaurant              | 20         | 16             | Various foods   | M        |
| Humber                      | <i>S. Enteritidis</i> PT8         | Restaurant              | 11         | 11             | Various foods   | M        |
| Cheshire & Merseyside       | <i>S. Enteritidis</i> PT8         | Restaurant              | 36         | 11             | Duck            | S        |
| East Midlands North         | <i>S. Enteritidis</i> PT14B       | Restaurant              | 15         | 11             | Egg fried rice  | S,D      |
| Northumberland, Tyne & Wear | <i>S. Enteritidis</i> PT14B       | Restaurant              | 31         | 17             | None            | –        |
| East Midlands North         | <i>S. Enteritidis</i> PT14B       | Shop/Retailer           | 17         | 14             | None            | –        |

M (microbiological).

S (statistical).

D (descriptive)

**Salmonella infections (faecal specimens) England and Wales: reports to the HPA (Salmonella data set), fourth quarter 2007**

All serotypes recorded in the Health Protection Agency salmonella data set in the fourth quarter of 2007 are listed below. There were more than 10 reports of 28 serotypes, two to 10 reports of 60 serotypes, and one report of 49 serotypes.

**More than 10 reports of the following Salmonella serotypes were received from October to December 2007, as follows:**

| Serotype       | No. of reports | Serotype              | No. of reports |
|----------------|----------------|-----------------------|----------------|
| S. Agona       | 23             | S. <i>Mikawasima</i>  | 14             |
| S. Anatum      | 56             | S. <i>Mississippi</i> | 11             |
| S. Arizonae    | 16             | S. <i>Montevideo</i>  | 18             |
| S. Bareilly    | 19             | S. <i>Muenster</i>    | 13             |
| S. Braenderup  | 29             | S. <i>Newport</i>     | 48             |
| S. Corvallis   | 12             | S. <i>Oranienburg</i> | 19             |
| S. Derby       | 11             | S. <i>Oslo</i>        | 11             |
| S. Enteritidis | 1603           | S. <i>Saint-Paul</i>  | 20             |
| S. Hadar       | 18             | S. <i>Stanley</i>     | 27             |
| S. Haifa       | 16             | S. <i>Thompson</i>    | 26             |
| S. Infantis    | 46             | S. <i>Typhimurium</i> | 427            |
| S. Java        | 52             | S. <i>Unnamed</i>     | 65             |
| S. Kentucky    | 37             | S. <i>Virchow</i>     | 107            |
| S. Mbandaka    | 24             | S. <i>Weltevreden</i> | 12             |

**Between two and 10 reports of each of the following serotypes were received:**

| Serotype                    | No. of reports | Serotype               | No. of reports | Serotype                 | No. of reports |
|-----------------------------|----------------|------------------------|----------------|--------------------------|----------------|
| S. <i>Abony</i>             | 5              | S. <i>Emek</i>         | 5              | S. <i>Minnesota</i>      | 5              |
| S. <i>Adelaide</i>          | 2              | S. <i>Galiema</i>      | 4              | S. <i>Muenchen</i>       | 8              |
| S. <i>Agama</i>             | 5              | S. <i>Give</i>         | 7              | S. <i>Napoli</i>         | 3              |
| S. <i>Ajiobo</i>            | 5              | S. <i>Havana</i>       | 5              | S. <i>Nima</i>           | 3              |
| S. <i>Albany</i>            | 2              | S. <i>Heidelberg</i>   | 8              | S. <i>Ohio</i>           | 4              |
| S. <i>Apapa</i>             | 3              | S. <i>Hull</i>         | 4              | S. <i>Panama</i>         | 2              |
| S. <i>Arechavaleta</i>      | 2              | S. <i>Hvitvingfoss</i> | 2              | S. <i>Poona</i>          | 4              |
| S. <i>Arkansas</i>          | 2              | S. <i>Ibadan</i>       | 2              | S. <i>Reading</i>        | 2              |
| S. <i>Bispebjerg</i>        | 3              | S. <i>Irumu</i>        | 2              | S. <i>Richmond</i>       | 6              |
| S. <i>Blockley</i>          | 3              | S. <i>Isangi</i>       | 2              | S. <i>Rissen</i>         | 4              |
| S. <i>Bovis-Morbificans</i> | 4              | S. <i>Javiana</i>      | 8              | S. <i>Rubislaw</i>       | 3              |
| S. <i>Brandenburg</i>       | 9              | S. <i>Kedougou</i>     | 2              | S. <i>San-Diego</i>      | 3              |
| S. <i>Bredeney</i>          | 10             | S. <i>Kottbus</i>      | 8              | S. <i>Schwarzengrund</i> | 10             |
| S. <i>Brunei</i>            | 2              | S. <i>Lille</i>        | 2              | S. <i>Senftenberg</i>    | 10             |

|                     |   |                       |   |                        |   |
|---------------------|---|-----------------------|---|------------------------|---|
| <i>S. Chester</i>   | 9 | <i>S. Litchfield</i>  | 2 | <i>S. Shubra</i>       | 2 |
| <i>S. Colindale</i> | 4 | <i>S. Livingstone</i> | 3 | <i>S. Stanleyville</i> | 2 |
| <i>S. Cubana</i>    | 3 | <i>S. London</i>      | 2 | <i>S. Stourbridge</i>  | 2 |
| <i>S. Dublin</i>    | 4 | <i>S. Manhattan</i>   | 3 | <i>v Tel-El-Kebir</i>  | 9 |
| <i>S. Durban</i>    | 2 | <i>S. Marseille</i>   | 2 | <i>S. Tennessee</i>    | 4 |
| <i>S. Durham</i>    | 8 | <i>S. Meleagridis</i> | 2 | <i>S. Uganda</i>       | 2 |

One report of each of the following serotypes were received:

| Serotype             |                       |                       |
|----------------------|-----------------------|-----------------------|
| <i>S. Amsterdam</i>  | <i>S. Gaminara</i>    | <i>S. Ness-Ziona</i>  |
| <i>S. Annedal</i>    | <i>S. Gold-Coast</i>  | <i>S. Newington</i>   |
| <i>S. Banana</i>     | <i>S. Grumpensis</i>  | <i>S. Nyanza</i>      |
| <i>S. Benue</i>      | <i>S. Idikan</i>      | <i>S. Pomona</i>      |
| <i>S. Bijlmer</i>    | <i>S. Ituri</i>       | <i>S. Potsdam</i>     |
| <i>S. Brancaster</i> | <i>S. Kenya</i>       | <i>S. Singapore</i>   |
| <i>S. Butantan</i>   | <i>S. Kiambu</i>      | <i>S. Soerenga</i>    |
| <i>S. Chandans</i>   | <i>S. Kibusi</i>      | <i>S. Tel-Aviv</i>    |
| <i>S. Coeln</i>      | <i>S. Kingabwa</i>    | <i>S. Tilene</i>      |
| <i>S. Concord</i>    | <i>S. Kingston</i>    | <i>S. Tudu</i>        |
| <i>S. Drypool</i>    | <i>S. Lagos</i>       | <i>S. Urbana</i>      |
| <i>S. Duisburg</i>   | <i>S. Larochelle</i>  | <i>S. Uzaramo</i>     |
| <i>S. Ealing</i>     | <i>S. Lichtenberg</i> | <i>S. Wangata</i>     |
| <i>S. Eastbourne</i> | <i>S. Liverpool</i>   | <i>S. Wippra</i>      |
| <i>S. Flint</i>      | <i>S. Maracaibo</i>   | <i>S. Worthington</i> |
| <i>S. Fluntern</i>   | <i>S. Marina</i>      |                       |
| <i>S. Freetown</i>   | <i>S. Negev</i>       |                       |