



UNITED KINGDOM (UNK): Scotland

Population: 5.1 million

Area:



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1. Epidemiologically investigated outbreaks

1.1 General outbreaks of Infectious Intestinal Disease, Scotland, 1996-1998.

Up to 1994 the Scottish surveillance system collected information on all outbreaks of food borne disease in Scotland. These were published annually and copies up to 1993 can be obtained from Professor W.J. Reilly at the Scottish Centre for Infection and Environmental Health. During 1995 work was undertaken to develop a new system that included all outbreaks of infectious intestinal disease, and among other developments, collected more information on the evidence leading to the suspicion of vehicles of infection. This system restricted itself to outbreaks involving more than one family (general outbreaks). Data are not therefore available for 1995. Although 47 general outbreaks of foodborne disease were identified by SCIEH in 1993 and 39 in 1994, many of these data are not held in a way that can be compared with the current system, and data are therefore presented here for 1996-1998. The categorization of foods presents problems, and that presented here, while accurate, is provisional and subject to change.

WHO Surveillance Programme for Control of Foodborne Infections and Intoxications in Europe
7th Report

Country Reports: *UNITED KINGDOM: Scotland 1993 – 1998*

Table GB-SC 1

Outbreaks by year
SCOTLAND 1996 - 1998

Year	Mode of Transmission					Total
	Foodborne	Equal/Unknown*	Person to person	Other	Unknown	
1996	8	1	15	8	20	52
1997	13	7	24	4	18	66
1998	22	4	26	7	12	71
Total	66	22	134	21	76	319

* Equal or unknown proportion of foodborne & person to person

1.2 Foodborne outbreaks

Table GB-SC 2

Outbreak setting
SCOTLAND 1996 – 1998

Place	1996	1997	1998	Total	(%)
Restaurant, etc.	1	1	7	9	20.9
Hotel, etc.	0	1	2	3	7.0
Private house	0	2	2	4	9.3
Residential institution	1	1	1	3	7.0
Other	2	0	3	5	11.6
Shop/retailer	2	2	1	5	11.6
Caterers	0	0	3	3	7.0
School	1	2	0	3	7.0
Military base	0	0	1	1	2.3
Hospital	1	1	0	2	4.7
Community	0	3	0	3	7.0
Mobile retailer	0	0	2	2	4.7
Total	8	13	22	43	100.0

Figure GB - SC 1

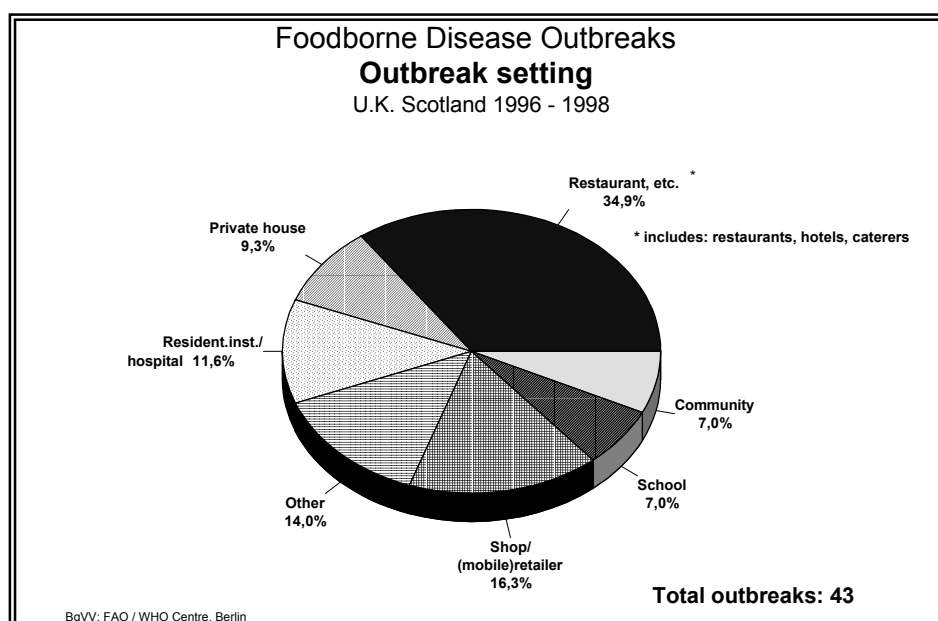


Table GB-SC 3

Causative agents
SCOTLAND 1996 - 1998

Organism	1996	1997	1998	Total	(%)
<i>S. Enteritidis</i> PT4	1	2	5	8	18.6
<i>S. Enteritidis</i> (other)	0	2	4	6	14.0
<i>S. Typhimurium</i>	1	1	1	3	7.0
Other <i>Salmonella</i>	0	1	1	2	4.7
<i>Campylobacter</i>	1	2	7*	10	23.3
<i>Sh. Sonni</i>	1	0	0	1	2.3
<i>E. coli</i> O157	1	5	2	8	18.6
Cryptosporidium	1	0	0	1	2.3
<i>B. cereus</i>	0	0	1	1	2.3
<i>Staph. Aureus</i>	0	0	1	1	2.3
SRSV	1	0	0	1	2.3
Suspected viral/unknown	1	0	0	1	2.3
Total	8	13	22	43	100.0

* One outbreak of campylobacter infection included some cases of cryptosporidiosis.

xx One outbreak of *S. enteritidis* PT4 infection included one case of *S. enteritidis* PT5c infection.

Figure GB-SC 2

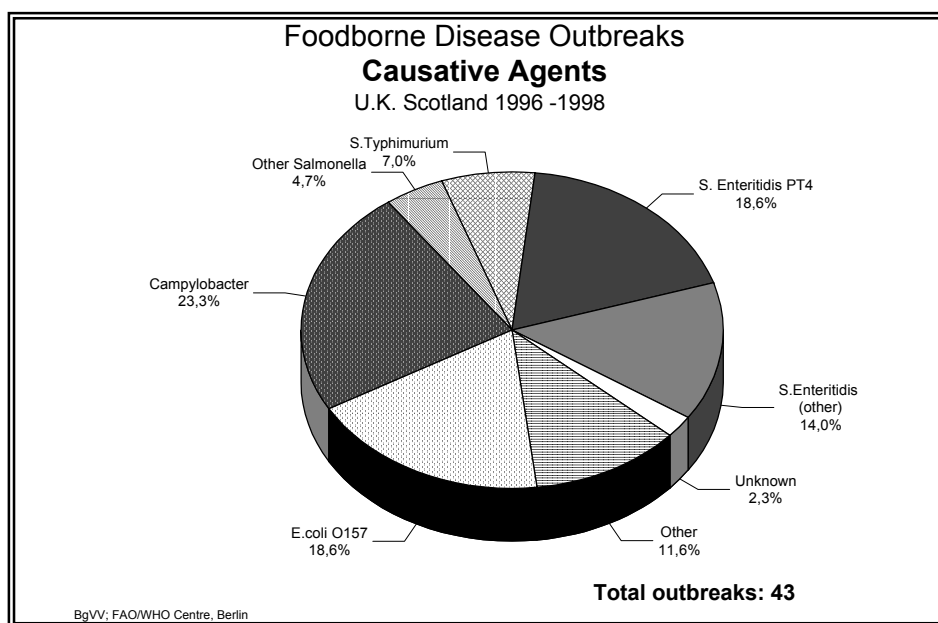


Table GB-SC 4

**Foodborne outbreaks – Was a vehicle of infection identified?
SCOTLAND 1996 - 1998**

Year	Vehicle identified?				Total	(%)
	Yes	(%)	No	(%)		
1996	7	(88)	1	(12)	8	(100)
1997	12	(92)	1	(8)	13	(100)
1998	14	(64)	8	(36)	22	(100)
Total	33	(80)	15	(20)	66	(100)

Table GB-SC 5

Foodborne vehicles of infection
SCOTLAND 1996 - 1998

Category	1996	1997	1998	Total	(%)
Red meat/meat products	1	5	3	9	27.3
Poultry	0	0	0	0	0.0
Fish/shellfish	2	0	0	2	6.1
Desserts	0	0	2	2	6.1
Eggs	0	1	1	2	6.1
Miscellaneous/mixed	1	4	3	8	24.2
Salad/vegetables/fruit	1	0	0	1	3.0
Rice	0	0	1	1	3.0
Milk/milk products	0	1	2	3	9.1
Water	2	1	2	5	15.2
Total	7	12	14	33	100.0

Figure GB-SC 3

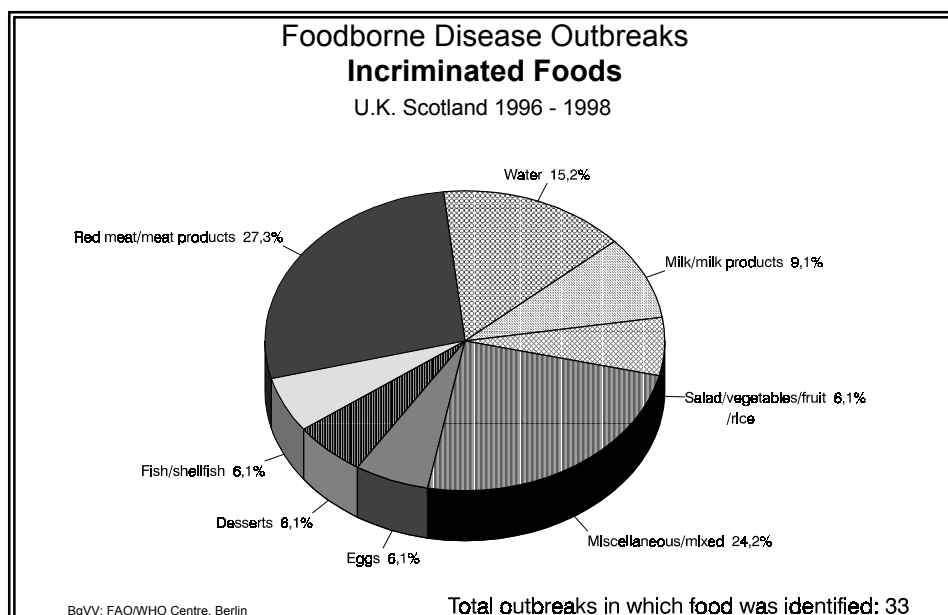


Table GB-SC 6

Evidence implicating foodborne vehicles of infection
SCOTLAND 1996 - 1998

Evidence	1996	1997	1998	Total	(%)
Microbiological	0	0	6	6	18.2
Statistical*	0	4	4	8	24.2
Microbiological and statistical	1	0	1	2	6.1
Descriptive or other evidence	6	8	3	17	51.5
Total	7	12	14	33	100.0

*case control or cohort study

Figure GB-SC 4

