



SLOVENIA (SVN)

Population: 2 million
Area: 20 273 km²



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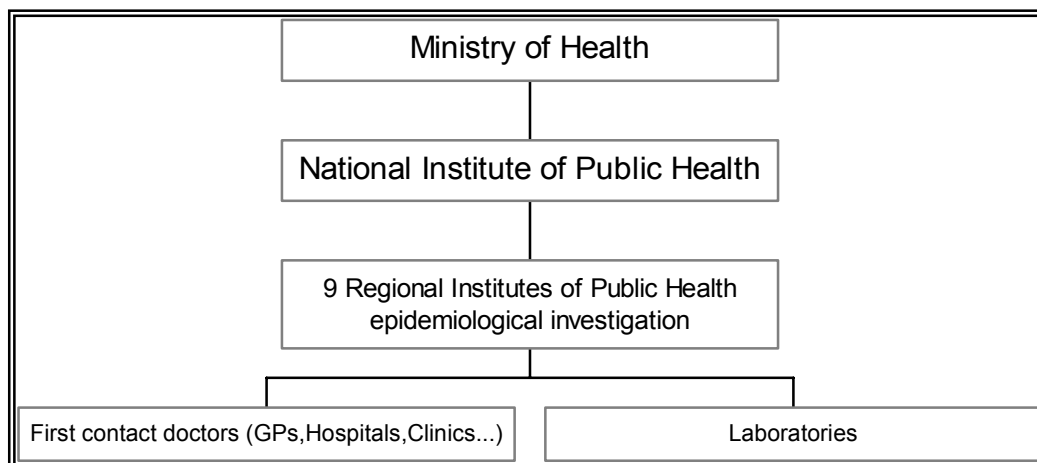
1. General information

According to the Law on Communicable diseases the notification of communicable diseases is obligatory. User-friendly computerized system for surveillance on communicable diseases has been developed in 1984 and it is used since then. The data on obligatory notified diseases is sent from the physicians in the public and private sector through the nine Regional Institutes of Public Health to the National Institute of Public Health. The National Institute of Public Health carries the main responsibility for this activity and coordinates the reporting system at the national level. The information system was developed to record data and a computer network allows the transfer of data from the health facilities and laboratories to the Regional and National Institute of Public Health. Feedback is provided through newsletter monthly.

1.1 The outbreak reporting system

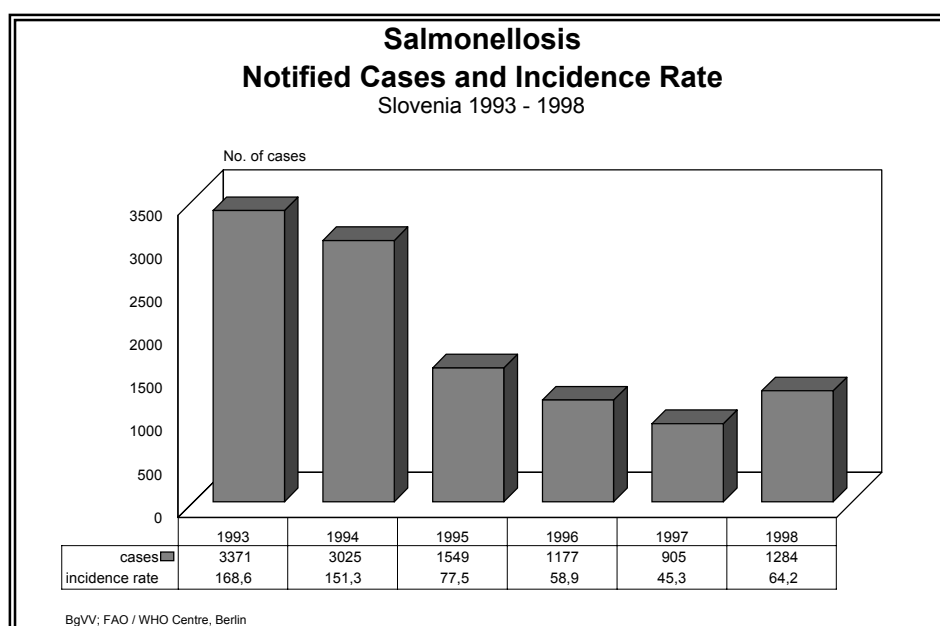
Foodborne disease outbreaks as well as other outbreaks are reported immediately to the Regional Institute of Public Health and to the National Institute of Public Health. Epidemiological and microbiological investigations of outbreaks are provided by Regional Institutes and reports are sent to the National Institute. An annual report is compiled by this Institute.

Foodborne Disease Surveillance System Slovenia



2. Statutory notification

Figure SL 1



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3. Epidemiologically investigated incidents

Table SL 2

Foodborne disease outbreaks
SLOVENIA 1993 - 1998

Year	Cases in outbreaks	Causative Agent	Incriminated food	Place of consumption	Origin of food	Contributory factors
1993	17 cases	<i>S. Enteritidis</i>	Tiramisu cake	Private home	Private home	Improper preparing
	21 cases	<i>S. Enteritidis</i>	Meat and eggs	Restaurant	Restaurant	Unknown
	116 cases	<i>S. Enteritidis</i>	Meat and eggs	Restaurant	Restaurant	Cross contamination
	6 cases	<i>S. Enteritidis</i>	Chicken	Restaurant	Restaurant	Cross contamination
	44 cases	<i>S. Enteritidis</i>	Chicken	Canteen	Canteen	Unknown
	95 cases	<i>S. Enteritidis</i>	Eggs	School	School	Poor hygiene
	10 cases	<i>S. Enteritidis</i>	Lunch	Restaurant	Restaurant	Unknown
	23 cases	<i>S. Enteritidis</i>	Chicken	Private home	Private home	Cross contamination
	18 cases	<i>S. Enteritidis</i>	Poultry	Restaurant	Restaurant	Cross contamination
	21 cases	<i>S. Enteritidis</i>	Vegetables	Restaurant	Restaurant	Unknown
	25 cases	<i>S. Enteritidis</i>	Beef	Canteen	Canteen	Unknown
	15 cases	<i>S. Enteritidis</i>	Lunch	Canteen	Canteen	Unknown
	15 cases	<i>S. Enteritidis</i>	Lunch	Restaurant	Restaurant	Unknown
	35 cases	<i>S. Enteritidis</i>	No data	Private home	Private home	Cross contamination
	29 cases	<i>S. Enteritidis</i>	Meat	Canteen	Canteen	Unknown
	14 cases	<i>S. Enteritidis</i>	Meat prod.	Private home	Private home	Unknown
	17 cases	<i>S. Enteritidis</i>	No data	Private home	Private home	Poor hygiene
	153 cases	<i>S. Enteritidis</i>	Sweets	Confectionery	Confectionery	Unknown
	9 cases	<i>S. Enteritidis</i>	Sweets	Private home	Private home	Inadeq. Cooking
	10 cases	<i>S. Enteritidis</i>	No data	Restaurant	Restaurant	Unknown
	33 cases	<i>S. Enteritidis</i>	Minced meat-raw	Private home	Private home	Cross contamination
	17 cases	<i>S. Hadar</i>	No data	Restaurant	Restaurant	Poor hygiene
	20 cases	<i>Staph. Aureus</i>	No data	Restaurant	Restaurant	Infected pers.
	25 cases	<i>Staph. aureus</i>	Milk	Home for elderly people	Home for elderly people	Unknown
	17 cases	<i>Citrobacter freundii</i>	Pork	Picnic	Picnic	Inadeq. cool.
	8 cases	Unknown	No data	Kindergarten	Kindergarten	Unknown
	20 cases	"	No data	Kindergarten	Kindergarten	Unknown
	35 cases	"	Lunch	Canteen	Canteen	Unknown
	87 cases	"	Fish, eggs	Home for elderly people	No data	Poor hygiene
	117 cases	"	Lunch	School	School	Cross contamination

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Year	Cases in outbreaks	Causative Agent	Incriminated food	Place of consumption	Origin of food	Contributory factors
1993	10 cases	"	Lunch	Canteen	Mass catering for spec. groups	Unknown
(cont.)	20 cases	"	Meat	Picnic	Canteen	Unknown
	40 cases	"	Lunch	Elementary school	School kitchen	Unknown
	11 cases	"	No data	Restaurant	Restaurant	Unknown
	10 cases	"	No data	Vacation center	Vacation center	Unknown
	19 cases	"	Meat	Canteen	Canteen	Unknown
	12 cases	"	No data	Nursing home	Nursing home	Unknown
	7 cases	"	Chicken	Private home	Private home	Unknown
1994	22 cases	<i>S. Enteritidis</i>	No data	Canteen	Mass cat. For spec.g.	Unknown
	12 cases	<i>S. Enteritidis</i>	Cake	Kindergarten	Kindergarten	Unknown
	30 cases	<i>S. Enteritidis</i>	Dressing	Restaurant	Restaurant	Poor hygiene
	215 cases	<i>S. Enteritidis</i>	Mayonnaise	Mass cat. for spec. groups	Mass cat. for spec. groups	Inadeq. refrig.
	21 cases	<i>S. Enteritidis</i>	No data	Canteen	Canteen	Unknown
	273 cases	<i>S. Enteritidis</i>	Meat and dressing	Canteen	Canteen	Inadeq. refrig. and cooking
	19 cases	<i>S. Enteritidis</i>	Sweets	Restaurant	Restaurant	Poor hygiene
	34 cases	<i>S. Enteritidis</i>	Ice cream	Confectionery	Confectionery	Infect.pers.
	19 cases	<i>S. Enteritidis</i>	Ice cream	Confectionery	Confectionery	Infect.pers.
	11 cases	<i>S. Enteritidis</i>	Sweets	Private home	Private home	Unknown
	15 cases	<i>S. Enteritidis</i>	Sweets	Confectionery	Confectionery	Infect.pers.
	38 cases	<i>S. Enteritidis</i>	Ice cream	Confectionery	Confectionery	Unknown
	56 cases	<i>S. Virchow</i>	Meat	Home for elderly people	Home for elderly people	Unknown
	79 cases	<i>E. coli</i> (ETEC)	No data	Canteen	Canteen	Unknown
	46 cases	<i>E. coli</i>	Meat and vegetables	Canteen	Canteen	Poor hygiene
	30 cases	<i>Staph. aureus</i>	No data	Hotel	Hotel	Infect.pers.
	46 cases	<i>Bac. cereus</i>	No data	Hotel	Hotel	
	7 cases	<i>Staph. aureus</i>	Turkey and beef	Home for elderly people	Home for elderly people	Unknown
	9 cases	<i>Staph. aureus</i>	No data	Restaurant	Restaurant	Infect.pers.
	16 cases	<i>Y. enterocolitica</i>	Fresh veget.	Canteen	Canteen	Infect.pers.
	30 cases	Unknown	No data	Canteen	Mass cat. For spec. groups	Unknown
	17 cases	"	Sausages	Restaurant	Restaurant	Inappropriate storage
	13 cases	"	No data	Home for elderly people	Home for elderly people	Unknown
	38 cases	"	Meat	Restaurant	Restaurant	Prep. too large quantities
	17 cases	"	Minced meat and chicken	Elementary school picnic	Picnic	Inadeq. Cooking
	8 cases	"	Meat	Home for elderly people	Home for elderly people	Unknown
1995	18 cases	<i>S. Enteritidis</i>	Eggs	Private home	Private home	Unknown
	8 cases	<i>S. Enteritidis</i>	No data	Canteen	Canteen	Unknown
	5 cases	<i>S. Enteritidis</i>	No data	Restaurant	Restaurant	Infect.pers.

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Year	Cases in outbreaks	Causative Agent	Incriminated food	Place of consumption	Origin of food	Contributory factors
1995 (cont.)	15 cases	<i>S. Enteritidis</i>	No data	Kindergarten	Kindergarten	Unknown
	34 cases	<i>S. Enteritidis</i>	Sweets	Retail store	Retail store	Poor hygiene
	40 cases	<i>S. Enteritidis</i>	Cake	Private home	Private home	Unknown
	20 cases	<i>S. Enteritidis</i>	Meat	Canteen	Canteen	Improper storage
	20 cases	<i>S. bredeny, S. typhimurium</i>	No data	Medical care facility	Medical care facility	Infec.pers.
	9 cases	<i>Staph. aureus</i>	Ice cream	Various places	Various places	Poor hygiene
	20 cases	<i>Staph. aureus</i>	Sweets	Camping	Camping	Unknown
	40 cases	<i>Staph. aureus</i>	Meat	Canteen	Canteen	Infec.pers.
	27 cases	Rotavirus	Meat prod. Mayonnaise	Restaurant	Restaurant	Poor hygiene
	14 cases	Rotavirus	Fresh fruit	Camping	Camping	Unknown
	14 cases	Virus	No data	Home for elderly people	Home for elderly people	Unknown
	117 cases	Virus	No data	Medical care facility	Medical care facility	Unknown
	30 cases	Unknown	Vegetables	Canteen	Canteen	Inadeq. cooling
	32 cases	"	No data	Home for elderly people	Home for elderly people	Unknown
	30 cases	"	No data	Home for elderly people	Home for elderly people	Unknown
	78 cases	"	No data	Elementary school	Elementary school	Unknown
	28 cases	"	No data	Kindergarten	Kindergarten	Unknown
	61 cases	"	Meat prod.	School	School	Inadeq. refrigeration
	26 cases	"	Meat	Home for elderly people	Home for elderly people	Unknown
	43 cases	"	Various food	Medical care facility	Medical care facility	Poor hygiene
71 cases	Unknown	Fish	Home for elderly people	Home for elderly people	Unknown	
1996	12 cases	<i>S. Enteritidis</i>	Cakes	Private home	Private home	Infec.pers.
	30 cases	<i>S. Enteritidis</i>	Puddings	Home for disabled people	Home for disabled people	Inadeq. cooking
	9 cases	<i>S. Enteritidis</i>	Chicken	Restaurant	Restaurant	Infec.pers.
	253 cases	<i>S. Enteritidis</i>	Meat	Canteen	Canteen	Improper storage
	8 cases	<i>S. Enteritidis</i>	Cakes	Private home	Private home	Unknown
	21 cases	<i>S. Enteritidis</i>	Cakes	Private home	Private home	Unknown
	15 cases	<i>Staph. aureus</i>	Meat	Home for elderly people	Home for elderly people	Infec.pers.
	8 cases	<i>Trichinella spiralis</i>	Pork sausages	Private home	Private home	Unknown
	34 cases	Enteroviruses	No data	Canteen	Canteen	Unknown
	47 cases	<i>Cryptosporidium</i> sp.	No data	Home for elderly people	Home for elderly people	Infec.pers.
	139 cases	<i>Yersinia enterocolitica</i>	Meat, yogurt	School	School	Unknown

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Year	Cases in outbreaks	Causative Agent	Incriminated food	Place of consumption	Origin of food	Contributory factors
1996	121 cases	Strept. Pyogenes	Mayonnaise	School	School	Unknown
(cont.)	58 cases	Unknown	Various food	Hotel	Hotel	Inadeq.re-heating
	19 cases	"	No data	Hotel	Hotel	Unknown
	33 cases	"	Meat	Restaurant	Restaurant	Unknown
	22 cases	"	Fresh vegetables	Restaurant	Restaurant	Prep.food in advance
	96 cases	"	Chicken, mayonnaise	Canteen	canteen	Prep.food in advance
	15 cases	"	Sweets	Restaurant	Restaurant	Unknown
	24 cases	"	Drinking water	Camping	camping	Unknown
	98 cases	"	Veget. prod	Medical care fac.	Medical care fac.	Unknown
	27 cases	"	Vegetable	Restaurant	Restaurant	Unknown
	8 cases	"	No data	Picnic	Picnic	Unknown
	110 cases	"	No data	Canteen	Canteen	Unknown
	69 cases	"	No data	Mass cat.for spec.groups	Mass cat.for spec. groups	Cross contamination
	68 cases	"	Sandwiches	Canteen	Canteen	Unknown
	27 cases	"	Meat, vegetables	Canteen	Canteen	Improper storage
1997	30 cases	<i>S. Enteritidis</i>	Unknown	Canteen	Canteen	Unknown
	17 cases	<i>S. Enteritidis</i>	Unknown	Canteen	Canteen	Unknown
	11 cases	<i>S. Enteritidis</i>	Cakes	Private home	Private home	Raw material contaminated
	17 cases	<i>Staph. aureus</i>	Meat, cereals	School	School	Use of left-overs
	5 cases	<i>Staph. aureus</i>	Unknown	Restaurant	Restaurant	Infec. pers.
	20 cases	<i>Staph. aureus</i>	Various food	Canteen	Canteen	Cross contamination
	20 cases	<i>Staph. aureus</i>	Unknown	Home for disabled people	Home for disabled people	Cross contamination
	24 cases	<i>Staph. aureus</i>	Various food	Restaurant	Restaurant	Infec. pers.
	49 cases	<i>Clostridium perfringens</i>	Meat, vegetables	Canteen	Canteen	Prepared too far in advance
	22 cases	<i>E. coli</i>	Ice cream	Hotel	Hotel	Inadeq.refrigeration
	194 cases	Coronavirus	Vegetables	School	School	Infec.pers.
	195 cases	<i>B.cereus</i>	Soft cheese	School	School	Raw material contaminated
	19 cases	Unknown	Meat	Restaurant	Restaurant	Poor hygiene
	18 cases	"	Unknown	School	School	Unknown
	40 cases	"	Veget, meat	Home for elderly people	Home for elderly people	Unknown
	6 cases	"	Sausages	Mass cat.for spec. groups	Mass cat.for spec. groups	Storage inappropriate
	25 cases	"	Unknown	Medical care fac.	Medical care fac.	Unknown
	13 cases	"	Unknown	Kindergarten	Kindergarten	Unknown
	10 cases	"	Meat	Canteen	Canteen	Unknown

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1997	8 cases	"	Meat, vegetabled	Restaurant	Restaurant	Unknown
(cont.)	36 cases	"	Unknown	Kindergarten	Kindergarten	Unknown
1998	73 cases	<i>S. Enteritidis</i>	Vegetables		Restaurant	Unknown
	50 cases	<i>S. Enteritidis</i>	Egg product	Hotel	Hotel	Infec.pers., poor hygiene
	13 cases	<i>S. Enteritidis</i>	Unknown	Home for elderly people	Home for elderly people	Infec. Person
	20 cases	<i>S. Enteritidis</i>	Unknown	Restaurant	Restaurant	Cross contamination
	4 cases	<i>S. Enteritidis</i>	Sweets	Private home	Private home	Inadeq.cooking
	31 cases	<i>S. Bredeney</i>	Unknown	Restaurant	Restaurant	Unknown
	4 cases	<i>S. Heidelberg</i>	Unknown	Restaurant	Restaurant	Unknown
	51 cases	<i>Staph. aureus</i>	Sausages	Canteen	Canteen	Improper storage
	66 cases	<i>Staph. aureus</i>	Meat	Canteen	Canteen	Inf.pers., poor hygiene
	16 cases	<i>Staph. aureus</i>	Pork, fresh vegetables	Restaurant	Restaurant	Infec.pers.
	5 cases	<i>Staph. aureus</i>	Pork, fresh vegetables	Private home	Private home	Cross contamination
	350 cases	Strept.pyo-genes	Potato salad	Mass cat. For spec.g.	Mass cat. For soec.g.	Infec. pers., poor hygiene
	14 cases	<i>Clostridium perfringens</i>	Sausages	Canteen	Canteen	Other
	60 cases	<i>Bac. cereus</i> , <i>Staph. aureus</i>	unknown	Canteen	Canteen	Unknown
	21 cases	DSP (diar.sh.pois)	Shellfish	Various places	Various places	Other
	81 cases	<i>C. jejuni</i>	Pizza	School	School	Infec. pers., poor hygiene
	247 cases	Norwalk virus	Fresh vegetables	Medical care facility	Medical care facility	Cross contamination
	11 cases	Unknown	Unknown	Restaurant	Restaurant	Infec. pers., poor hygiene
	4 cases	"	Chicken	Private home	Private home	Inadeq. cooking
	98 cases	"	Unknown	Home for elderly people	Home for elderly people	Unknown
	42 cases	"	Various food	Hotel	Hotel	Unknown
	12 cases	"	Unknown	Canteen	Canteen	Unknown
	9 cases	"	Meat, vegetables	Restaurant	Restaurant	Cross contamination
	32 cases	"	Unknown	Home for elderly people	Home for elderly people	Poor hygiene
	11 cases	"	Unknown	Restaurant	Restaurant	Unknown
	60 cases	"	Potato salad, cheese	School	School	Improper storage

Figure SL 2

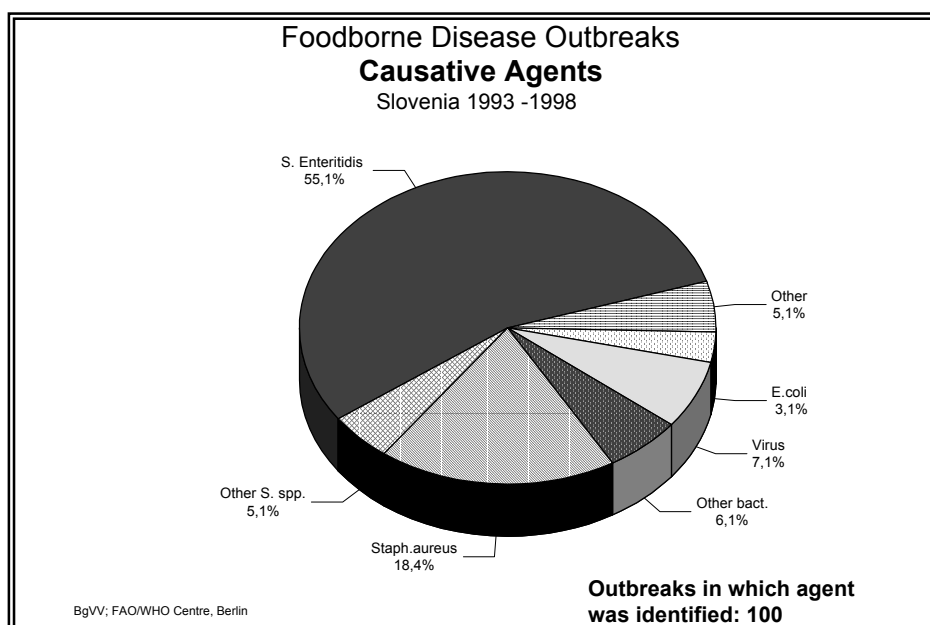


Figure SL 3

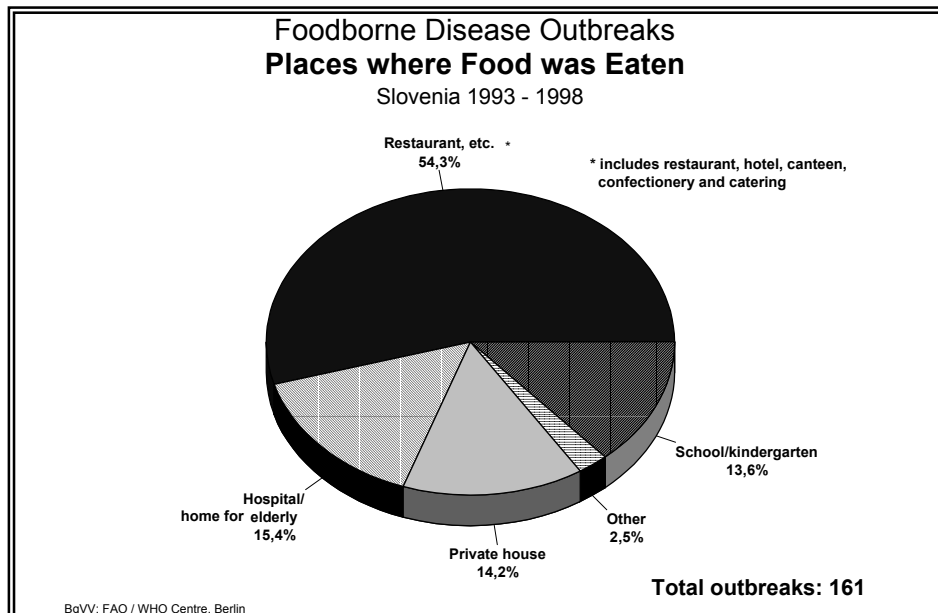


Figure SL 4

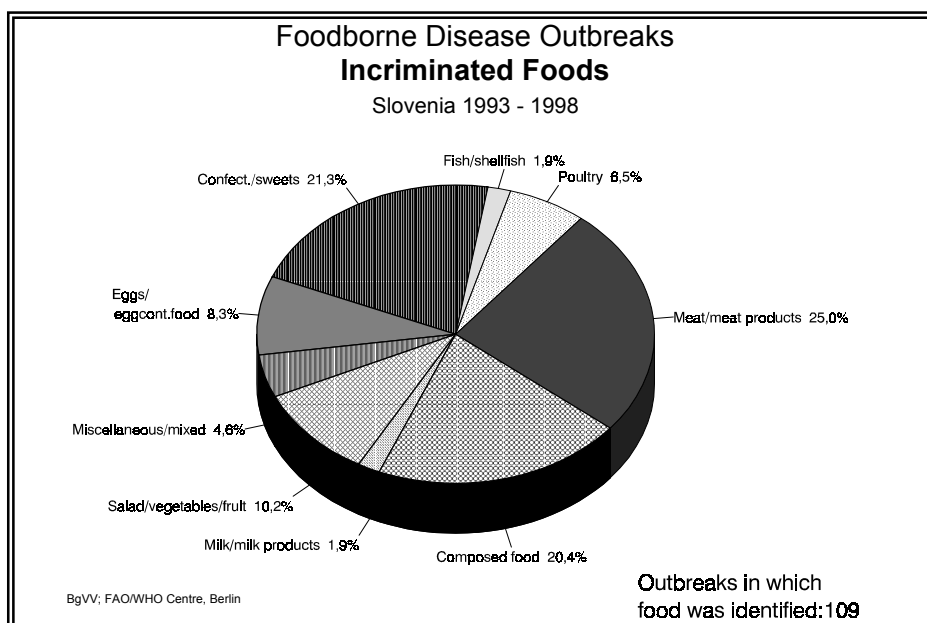


Figure SL 5

