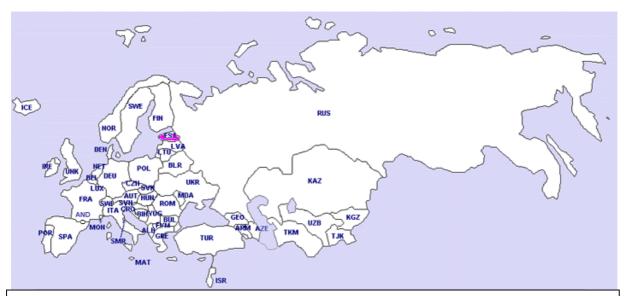




### **ESTONIA** (EE)

Population: 1.4 million (1999) Area: 45 227 km<sup>2</sup>



The designations and the presentation of material on this map of the Member States of the WHO European Region (as at 31 July 1997) do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines represent approximate border lines for which there may not yet be full agreement.

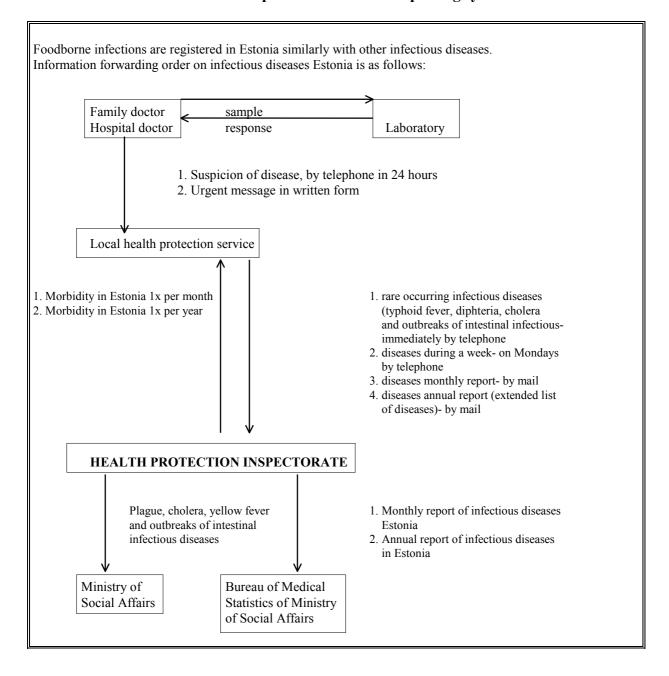
#### 1. General information

Total area of Republic of Estonia is 45227km<sup>2</sup>. Resident population (1 January 1999) is 1445580. Administrative units: 15 counties; 207 communes.

Country Reports: ESTONIA 1993 – 1998

Figure EE 1

#### General description of the official reporting system



Country Reports: ESTONIA 1993 – 1998

#### 2. Statutory notification

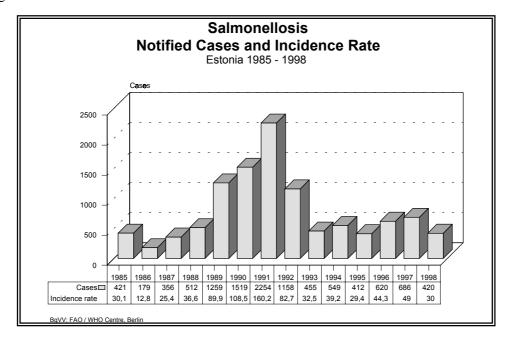
Table EE 1

#### Foodborne and other intestinal infections ESTONIA 1992-1998

Disease	Year						
	1992	1993	1994	1995	1996	1997	1998
Salmonellosis	1158	455	549	412	620	686	420
Incidence rate	82.7	32.5	39.2	29.4	44.3	49.0	30.0
Shigellosis	2359	1575	1039	826	693	672	263
Incidence rate	168.5	112.5	74.2	59.0	49.5	48.0	18.8
Viral hepatitis	637	1751	615	252	108	174	953
Incidence rate	45.5	125.1	43.9	18.0	7.7	12.4	68.1
Botulism	10	4	1	-	-	3	1
Incidence rate	0.7	0.3	0.1	-	-	0.2	0.1

#### 2.1 Salmonellosis

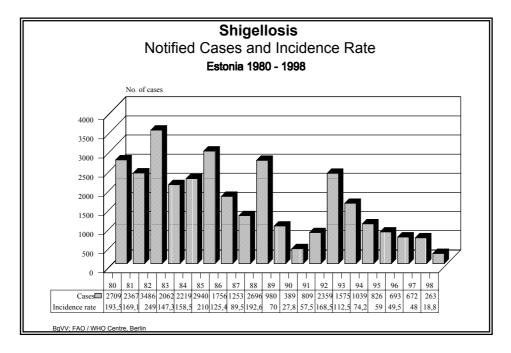
Figure EE 2



Country Reports: ESTONIA 1993 – 1998

#### 2.2 Shigellosis

Figure EE 3



#### 3. Epidemiologically investigated incidents

#### 3.1 Salmonella serotypes

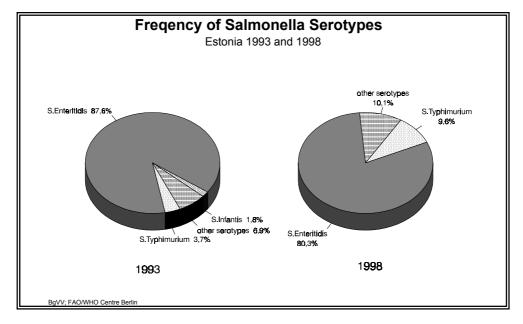
Table EE 2

### Frequency of Salmonella serotypes isolated ESTONIA 1993-1998

	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	Tota 1993-1	
			N	0.			No.	%
S. Enteritidis	432	483	368	542	594	35	2770	83.5
S. Typhimurium	18	24	8	45	54	4.	191	5.8
S. Virchow	-	_	1	-			1	0.0
S. Infantis	9	13	5	3	2	,	34	1.0
S. Hadar	-	5	-	1	2		8	0.2
S. Heidelberg	2	_	_	_		,	4	0.1
S. Thompson	-	_	_	-	1		1	0.0
S. Branderburg	1	1	1	-	3		6	0.2
S. Newport	-	3	_	-			3	0.1
Other	7	26	19	19	20	3	129	3.9
Not known	24	33	35	38	34	,	166	5.0
TOTAL	493	591	437	648	71(	43'	3316	100

Country Reports: ESTONIA 1993 – 1998

Figure EE 4



#### 3.2 Foodborne disease outbreaks

Table EE 3

### **Foodborne disease outbreaks** ESTONIA 1990-1998

Year No. of cases		Causative agent	Incriminated food	Place of consumption	
	in outbreaks				
1990	78	S. Enteritidis	Eggs	Kindergarten	
	51	S. Enteritidis	Curds	Private home	
	180	S. Enteritidis	Eggs	Private home	
1991	32	S. Enteritidis	Eggs	School	
	120	S. Enteritidis	Eggs	Private home	
	24	S. Enteritidis	Eggs	Canteen	
	150	S. Enteritidis	Fish	Kindergarten	
	79	S. Enteritidis	Cake	Private home	
	13	S. Enteritidis	Food	Prison	
	9	S. Enteritidis	Eggs	Private home	
	1	C. botulinum	Home canned mushrooms	Private home	
	1	C. botulinum	Home canned meat	Private home	
	1	C. botulinum type E	Marinated herring	Private home	
1992	61	S. Enteritidis	Milk	Hospital	
	27	Sh. sonnei	Food	Kindergarten	
	12	Sh. sonnei II	Food	Orphanages	
	10	Sh. sonnei I	Food	Orphanages	
	13	Sh. sonnei II	Food	Kindergarten	
	16	Sh. sonnei II	Milk	School	
	19	Sh. sonnei II	Food	Welfare Private home	
	7	Sh. sonnei II +III	Milk	Private home	
	9	Sh. sonnei I	Unpasturized milk	Private home	
	11	Sh. sonnei I	Food	Welfare Private home	
	53	Sh. sonnei II	Unpasturized milk	Private home	

Country Reports: ESTONIA 1993 – 1998

Year	No. of cases Causative agent Incr		Incriminated food	Place of consumption	
	in outbreaks			r	
	21	Sh. sonnei II	Liver paste	Kindergarten	
	36	Sh. sonnei I	Food	Kindergarten	
	1	C. botulinum	Home- canned mushrooms	Private home	
	1	C. botulinum	Home- canned meat	Private home	
	4	C. botulinum A	Dried meat	Private home	
	2	C. botulinum type E	Home made sprats in oil	Private home	
	1	C. botulinum	Home- canned fish	Private home	
	2	C. botulinum	Dried fish	Private home	
1993	17	S. Enteritidis	Confectionery products	Private home	
	27	S. Enteritidis	Eggs	Private home	
	44	Sh. sonnei II	Unpasturized milk	Private home	
	54	Sh. sonnei I	Food	School	
	12	Sh. sonnei I	Food	Welfare Private home	
	1	C. botulinum	Home canned mushrooms	Private home	
	1	C. botulinum type E	Dried fish	Private home	
	1	C. botulinum	Salted herring	Private home	
1994	61	Sh. sonnei II	Milk	Private home	
	13	Sh. sonnei II	Curds	School	
	36	Sh. sonnei II	Unpasturized milk	Private home	
	11	Sh. flexneri 2A	Potato salad	Private home	
	17	Sh. flexneri	Food	Welfare Private home	
	1	C. botulinum	Home- canned fish	Private home	
1995	19	S. Enteritidis	Food	Defence force	
	8	Sh. sonnei II	Food	Summer camps	
	9	Sh. sonnei I	Food	Kindergarten	
1996	8	S. Enteritidis	Eggs	Hospital	
	21	S. Enteritidis	Confectionery products	Private home	
	12	Sh. sonnei II	Food	Kindergarten	
	15	Sh. sonnei II	Food	Canteen	
	20	Sh. sonnei I	Food	Kindergarten	
1997	73	S. Enteritidis	Eggs	Kindergarten	
	37	S. Enteritidis	Eggs	Hospital of psychiatry	
	10	S. Enteritidis	Confectionery products	Private home	
	64	Sh. sonnei II	Food	School	
	9	Sh. sonnei II	Food	Defence force	
	2	C. botulinum type B	Home-canned vegetables	Private home	
	1	C. botulinum	Home- canned mushrooms	Private home	
1998	1	C. botulinum	Home- canned mushrooms	Private home	

Figure EE 5

