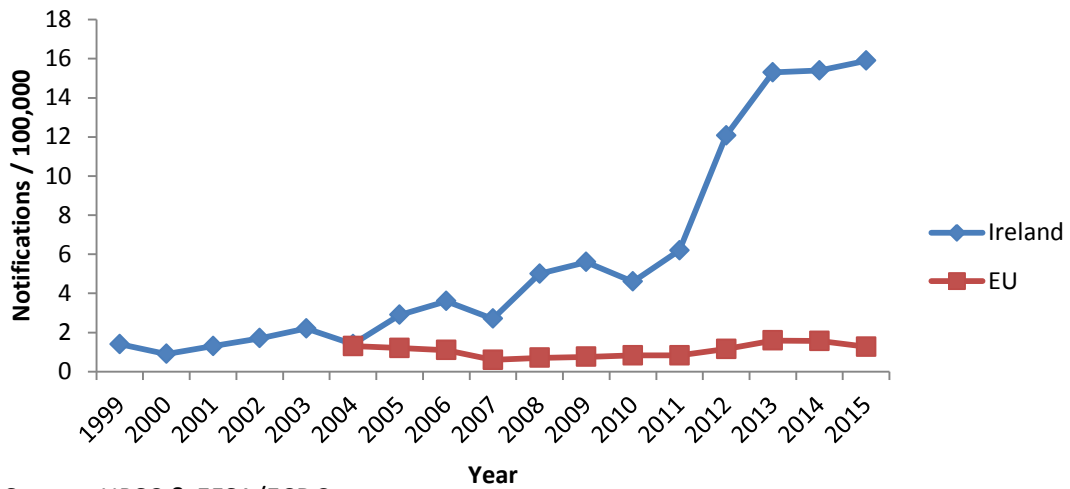


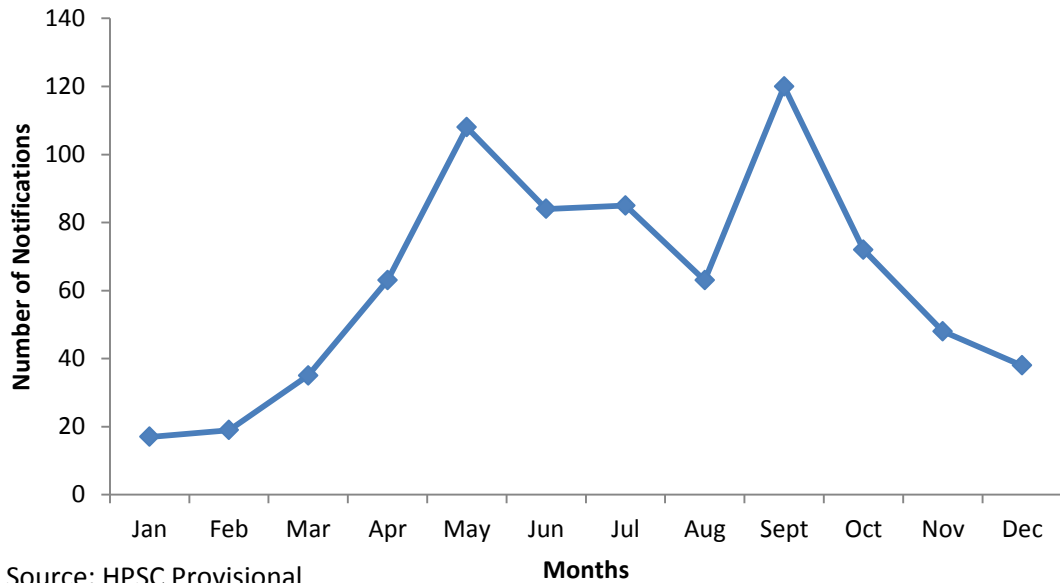
VTEC infection in Humans 2015

Figure 1. Crude incidence rate of VTEC notifications per 100,000 population in Ireland from 1999 to 2015 and in the EU from 2004 to 2015



Source: HPSC & EFSA/ECDC

Figure 2. Seasonal distribution of VTEC notifications, Ireland 2015



Source: HPSC Provisional

Figure 3. Number of notifiable cases of VTEC infection by age group in Ireland, 2015

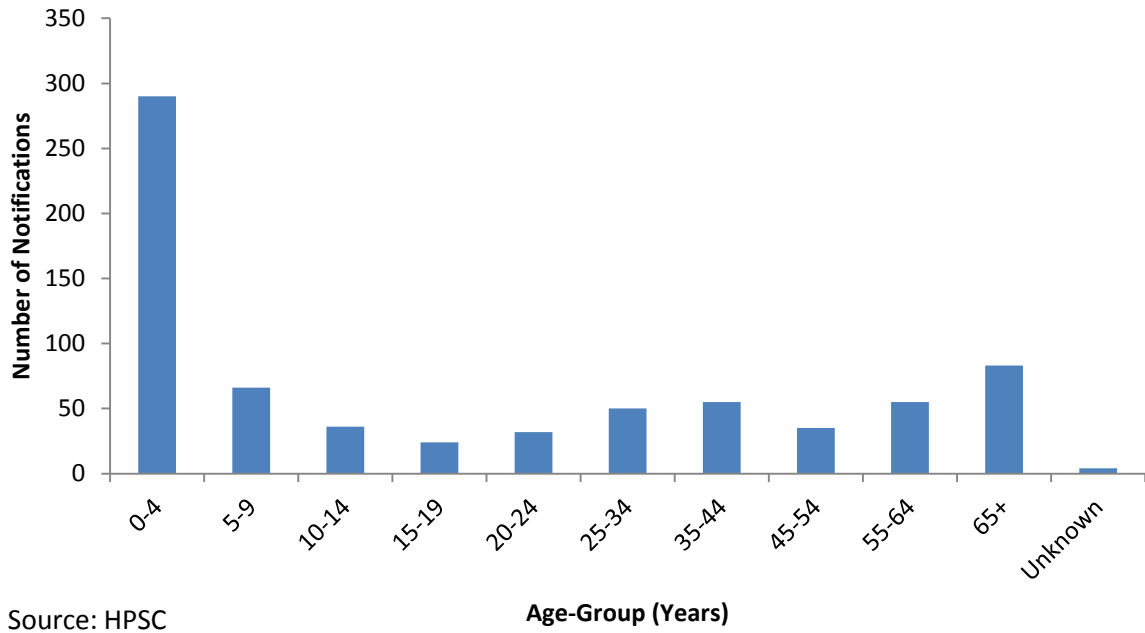


Figure 4. Number of notifiable cases of VTEC infections by gender in Ireland, 2015

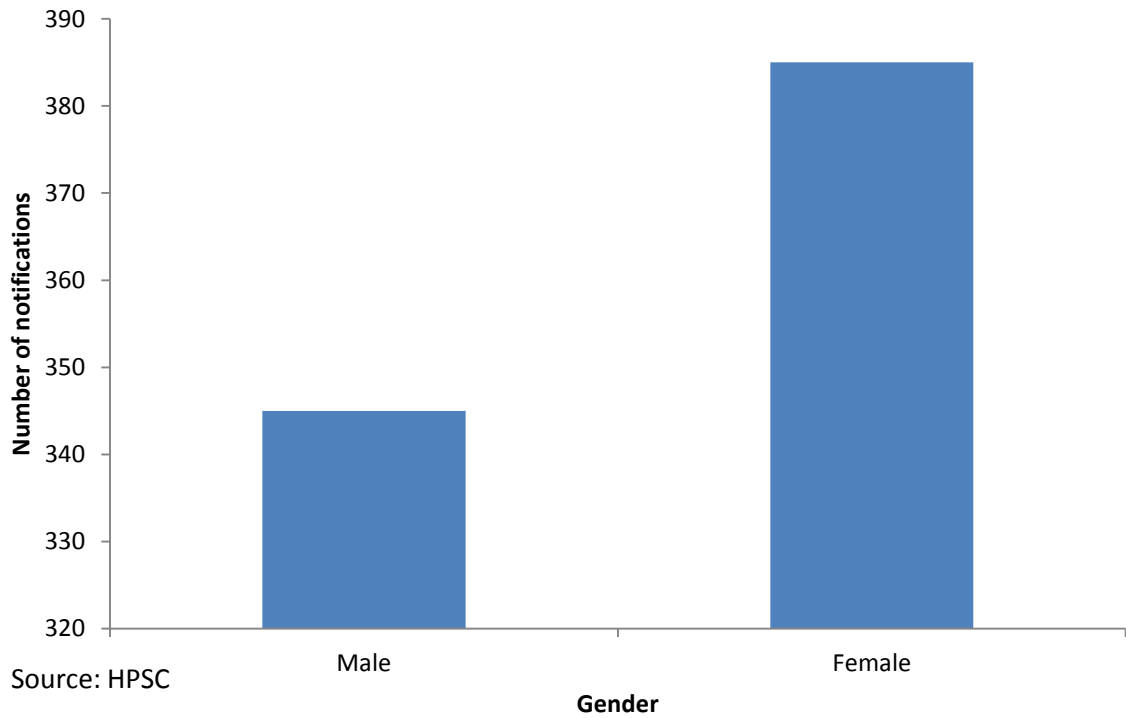


Table 1: Serotype and verotoxin (vt) profiles for strains associated with laboratory confirmed VTEC cases, as determined at the VTEC-NRL at PHL, Cherry Orchard Hospital, 2015

Serogroup	vt1	vt2	vt1+vt2	Not reported	Total
O26	77	11	152	1	241
O157	-	117	32	1	150
O145	1	35	5	-	41
O103	13	2	-	-	15
O146	10	-	1	-	11
O5	6	-	3	-	9
O78	6	1	-	-	7
O111	3	-	3	-	6
O128ab	-	2	4	-	6
O177	2	4	-	-	6
O182	6	-	-	-	6
O84	6	-	-	-	6
O91	1	2	2	-	5
O76	2	-	2	-	4
O8	-	3	-	-	3
O108	2	-	-	-	2
O113	-	1	1	-	2
O117	2	-	-	-	2
O128ad	-	2	-	-	2
O98	2	-	-	-	2
O101	-	1	-	-	1
O105	-	1	-	-	1
O105ac	-	1	-	-	1
O117:H17	-	1	-	-	1
O126	-	1	-	-	1
O130	-	1	-	-	1
O136	1	-	-	-	1
O136:H12	-	1	-	-	1
O141	-	1	-	-	1
O149	1	-	-	-	1
O150	-	-	1	-	1
O156	-	1	-	-	1
O174	1	-	-	-	1
O178	1	-	-	-	1
O185	1	-	-	-	1
O186	-	-	1	-	1
O2	-	1	-	-	1
O22	1	-	-	-	1
O71	-	-	1	-	1
O74	-	-	1	-	1
O87	1	-	-	-	1
OE11362-78	-	1	-	-	1
OE7477-77	1	-	-	-	1
Ungroupable/ unidentifiable	47	33	67	3	150
Mixed Infections	-	2	2	-	4
Total	194	226	278	5	703

(Source HPSC)

Table 2: VTEC outbreaks by suspected mode of transmission, Ireland, 2015

Transmission Route	Number of outbreaks	Number ill
Person-to-person	34	73
Foodborne	1	2
Waterborne	8	55
Person-to-person and waterborne	10	24
Foodborne and waterborne	1	3
Animal contact	2	3
Person-to-person and animal contact	7	17
Unknown	28	55
Total	91*	232

*Of the 91 VTEC outbreaks notified in 2015, 78 (86%) were family-type outbreaks and the remaining 13 (14%) were general-type outbreaks

Source: HPSC

Table 3. Number of VTEC notifications by serogroup, verotoxin and HUS status, Ireland, 2015

Serogroup ^a	Verotoxin	HUS	non-HUS	Total	% with HUS
O26	<i>vt1</i>	0	77	77	0.0%
	<i>vt2</i>	3	8	11	27%
	<i>vt1+vt2</i>	4	150	154	2.6%
	Not reported	0	1	1	0.0%
O157	<i>vt1</i>	0	0	0	0.0%
	<i>vt2</i>	4	115	119	3.4%
	<i>vt1+vt2</i>	0	32	32	0.0%
	Not reported	0	1	1	0.0%
Other	<i>vt1</i>	0	117	117	0.0%
	<i>vt2</i>	6	125	131	4.6%
	<i>vt1+vt2</i>	1	57	58	1.6%
	Not reported	0	3	3	0.0%
No organism	Unknown	4	22	26	15.4%
Total		22	708	730	3.0%

^aFor simplicity mixed infections were recorded as O157 if at least one strain was O157, as O26 if at least one strain was O26 but not O157, and as Other if only non-O157 or non-O26 strains were detected.

Source: HPSC

Sources of data:

HPSC: Health Protection Surveillance Centre. Annual Epidemiological Report 2015.

<http://www.hpsc.ie/AboutHPSC/AnnualReports/File,15956,en.pdf>

EFSA/ECDC: European Food Safety Authority and European Centre for Disease Prevention and Control. The European Union summary report on trends and sources of zoonoses, zoonotic agents and food-borne outbreaks in 2015.

<https://www.efsa.europa.eu/en/efsajournal/pub/4634>

HPSC (Provisional): Health Protection Surveillance Centre. Surveillance of Infectious Intestinal (IID), Zoonotic and Vectorborne Disease, and Outbreaks of Infectious Disease Quarterly Reports, 2015 (Provisional Data).

<http://www.hpsc.ie/A->

[Z/Gastroenteric/GastroenteritisorIID/Publications/IIDandZoonoticDiseaseQuarterlyReports/2015/](http://www.hpsc.ie/A-Z/Gastroenteric/GastroenteritisorIID/Publications/IIDandZoonoticDiseaseQuarterlyReports/2015/)