

Table 3. Cases aged 16 to 65 years diagnosed with certain gastrointestinal infections with no reported travel history, by sex, male-to-female ratio and percentage male, England, 2003-2013 (n=504,123)

Organism	Sex, m:f ratio and percentage male	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Total	p value [†]
<i>Campylobacter</i> spp.	Female	14,559	13,981	14,986	14,451	15,713	14,929	17,552	18,977	19,295	18,934	17,119	180,496	0.114
	Male	16,250	15,910	16,386	16,287	17,587	16,720	19,127	21,067	21,572	21,509	19,730	202,145	
	Ratio	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	
	Percentage	52.7	53.2	52.2	53.0	52.8	52.8	52.1	52.6	52.8	53.2	53.5	52.8	
	Percentage (95% CI)	(52.2-53.3)	(52.7-53.8)	(51.7-52.8)	(52.4-53.5)	(52.3-53.4)	(52.3-53.4)	(51.6-52.7)	(52.1-53.1)	(52.3-53.3)	(52.7-53.7)	(53.0-54.1)	(52.7-53)	
<i>Cryptosporidium</i> spp.	Female	1,109	793	957	921	812	1,041	1,211	1,011	721	1,690	1,009	11,275	0.259
	Male	674	539	532	565	471	600	627	585	462	979	598	6,632	
	Ratio	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	
	Percentage	37.8	40.5	35.7	38.0	36.7	36.6	34.1	36.7	39.1	36.7	37.2	37.0	
	Percentage (95% CI)	(35.5-40.1)	(37.8-43.2)	(33.3-38.2)	(35.5-40.5)	(34.1-39.4)	(34.2-38.9)	(31.9-36.3)	(34.3-39.1)	(36.3-41.9)	(34.8-38.5)	(34.8-39.6)	(36.3-37.7)	
<i>Entamoeba histolytica</i>	Female	56	71	61	48	33	51	29	30	34	56	32	501	0.365
	Male	134	150	135	110	77	76	70	53	108	104	63	1,080	
	Ratio	2.4	2.1	2.2	2.3	2.3	1.5	2.4	1.8	3.2	1.9	2.0*	2.2	
	Percentage	70.5	67.9	68.9	69.6	70	59.8	70.7	63.9	76.1	65	66.3	68.3 (66-70.6)	
	Percentage (95% CI)	(63.5-76.9)	(61.3-74)	(61.9-75.3)	(61.8-76.7)	(60.5-78.4)	(50.8-68.4)	(60.7-79.4)	(52.6-74.1)	(68.2-82.8)	(57.1-72.4)	(55.9-75.7)		
<i>Giardia</i> spp.	Female	923	899	876	875	905	1039	1080	1163	1144	1180	1106	11,190	<0.001
	Male	1250	1219	1097	1058	1102	1226	1227	1317	1390	1418	1282	13,586	
	Ratio	1.4	1.4	1.3	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	
	Percentage	57.5	57.6	55.6	54.7	54.9	54.1	53.2	53.1	54.9	54.6	53.7	54.8	
	Percentage (95% CI)	(55.4-59.6)	(55.4-59.7)	(53.4-57.8)	(52.5-57)	(52.7-57.1)	(52-56.2)	(51.1-55.2)	(51.1-55.1)	(52.9-56.8)	(52.6-56.5)	(51.7-55.7)	(54.2-55.5)	
Hepatitis A	Female	244	135	98	84	159	260	140	65	52	66	83	1,386	<0.001
	Male	537	283	227	159	159	285	151	141	82	88	66	2,178	
	Ratio	2.2	2.1	2.3	1.9	1.0	1.1	1.1	2.2	1.6	1.3	0.8	1.6	
	Percentage	68.8	67.7	69.8	65.4	50.0	52.3	51.9	68.4	61.2	57.1	44.3	61.1	
	Percentage (95% CI)	(65.4-72)	(63-72.2)	(64.5-74.8)	(59.1-71.4)	(44.4-55.6)	(48-56.6)	(46-57.8)	(61.6-74.7)	(52.4-69.5)	(48.9-65.1)	(36.2-52.7)	(59.5-62.7)	
Norovirus	Female	237	343	289	411	577	652	802	1,077	761	919	680	6,748	0.001
	Male	195	259	217	355	461	526	670	980	683	920	624	5,890	

	Ratio	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.9	1.0	0.9	0.9	
		45.1	43.0	42.9	46.3	44.4	44.7	45.5	47.6	47.3	50.0	47.9	46.6	
	Percentage (95% CI)	(40.4-50)	(39.0-47.1)	(38.5-47.3)	(42.8-49.9)	(41.4-47.5)	(41.8-47.5)	(42.9-48.1)	(45.5-49.8)	(44.7-49.9)	(47.7-52.3)	(45.1-50.6)	(45.7-47.5)	
<i>Salmonella</i> spp. (non-typhoidal)	Female	3,393	3,092	2,446	2,770	2,610	1,824	1,703	1,407	1,489	1,380	1,249	23,363	0.032
	Male	3,213	3,197	2,434	2,648	2,467	1,732	1,763	1,335	1,335	1,244	1,179	22,547	
	Ratio	0.9	1.0	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	1.0	
		48.6	50.8	49.9	48.9	48.6	48.7	50.9	48.7	47.3	47.4	48.6	49.1	
	Percentage (95% CI)	(47.4-49.9)	(49.6-52.1)	(48.5-51.3)	(47.5-50.2)	(47.2-50.0)	(47.1-50.4)	(49.2-52.5)	(46.8-50.6)	(45.4-49.1)	(45.5-49.3)	(46.6-50.6)	(48.7-49.6)	
<i>Salmonella</i> spp. (typhoidal)	Female	36	54	54	68	73	83	71	60	72	44	46	661	0.038
	Male	69	55	76	100	84	100	87	91	74	41	45	822	
	Ratio	1.9	1.0	1.4	1.5	1.2	1.2	1.2	1.5	1.0	0.9	1.0	1.2	
		65.7	50.5	58.5	59.5	53.5	54.6	55.1	60.3	50.7	48.2	49.5	55.4	
	Percentage (95% CI)	(55.8-74.7)	(40.7-60.2)	(49.5-67.0)	(51.7-67.0)	(45.4-61.5)	(47.1-62.0)	(47.0-63)	(52.0-68.1)	(42.3-59.0)	(37.3-59.3)	(38.8-60.1)	(52.9-58.0)	
<i>Shigella</i> spp.	Female	342	410	510	447	608	527	612	611	434	314	302	5117	<0.001
	Male	273	413	400	319	450	457	465	649	582	640	741	5389	
	Ratio	0.8	1.0	0.8	0.7	0.7	0.9	0.8	1.1	1.3	2.0	2.5	1.1	
		44.4	50.2	44	41.6	42.5	46.4	43.2	51.5	57.3	67.1	71	51.3	
	Percentage (95% CI)	(40.4-48.4)	(46.7-53.7)	(40.7-47.3)	(38.1-45.2)	(39.5-45.6)	(43.3-49.6)	(40.2-46.2)	(48.7-54.3)	(54.2-60.3)	(64-70.1)	(68.2-73.8)	(50.3-52.3)	
VTEC	Female	73	120	154	223	193	170	208	159	257	148	190	1895	0.412
	Male	64	71	83	131	134	107	118	112	152	115	135	1222	
	Ratio	0.9	0.6	0.5	0.6	0.7	0.6	0.6	0.7	0.6	0.8	0.7	0.6	
		46.7	37.2	35.0	37.0	41.0	38.6	36.2	41.3	37.2	43.7	41.5	39.2	
	Percentage (95% CI)	(38.1-55.4)	(30.3-44.4)	(29.0-41.5)	(32.0-42.3)	(35.6-46.5)	(32.9-44.6)	(31.0-41.7)	(35.4-47.4)	(32.5-42.0)	(37.6-50.0)	(36.1-47.1)	(37.5-40.9)	

†Chi-squared test for linear trend; CI, Confidence Interval; *Met threshold on rounding up.

Ratios above a threshold of two or where the percentage male has a lower confidence interval above 50% are shaded.