Supplementary Information File

Table A: Search terms

Medline (Ovid)

- #1. Exp Socioeconomic Factors/
- #2. Education*.mp.
- #3. Exp Employment/
- #4. Income*.mp.
- #5. Occupation*.mp.
- #6. Poverty.mp.
- #7. Poorest.mp.
- #8. exp Social Class/
- #9. Inequalit*.mp.
- #10. Socioeconomic*.mp.
- #11. Depriv*.mp.
- #12. Disadvantag*.mp.
- #13. Salary.mp.
- #14. Underprivileged.mp.
- #15. Social determinant*.mp.
- #16. (Social adj1 factor*).mp
- #17. Socio*.mp
- #18. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
- #19. exp Norovirus/
- #20. Acute gastroenteritis.mp.
- #21. infectious intestinal disease*.mp.
- #22. gastrointestinal infection*.mp.
- #23. exp Diarrhea/
- #24. Rotavirus.mp.
- #25. gastrointestinal pathogen*.mp.
- #26. gastrointestinal bacteria.mp.
- #27. enteric infection*.mp.
- #28. diarrh*.mp.
- #29. stomach flu.mp.
- #30. gastric flu.mp.
- #31. stomach bug*.mp.
- #32. stomach virus*.mp.
- #33. Exp Campylobacter/
- #34. Exp Escherichia coli/
- #35. Enterobacteriaceae Infection*.mp.
- #36. Dysentery, Bacillary.mp
- #37. Exp Escherichia coli Infections/
- #38. Yersinia enterocolitica.mp.
- #39. Exp Salmonella Infections/
- #40. Exp Cryptosporidiidae/
- #41. Exp Salmonella/
- #42. Exp Shigella/
- #43. Exp Giardia/
- #44. Escherichia coli.mp.
- #45. Exp Listeria/

- #46. Small round structured virus*.mp.
- #47. Winter vomiting disease*.mp.
- #48. Sapovirus.mp.
- #49. Caliciviridae.mp.
- #50. VTEC.mp.
- #51. STEC.mp.
- #52. exp Foodborne Diseases/
- #53. Food poisoning*.mp.
- #54. Scombro*.mp.
- #55. Clostridium perfringens.mp.
- #56. Bacillus cereus.mp.
- #57. Hepatitis A.mp.
- #58. Hepatitis E.mp.
- #59. 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58
- #60. exp Australia/
- #61. exp Austria/
- #62. exp Belgium/
- #63. exp Canada/
- #64. exp Chile/
- #65. exp Czech Republic/
- #66. exp Denmark/
- #67. exp Estonia/
- #68. exp Finland/
- #69. exp France/
- #70. exp Germany/
- #71. exp Greece/
- #72. exp Hungary/
- #73. exp Iceland/
- #74. exp Ireland/
- #75. exp Israel/
- #76. exp Italy/
- #77. exp Japan/
- #78. exp Korea/
- #79. exp Luxembourg/
- #80. exp Mexico/
- #81. exp Netherlands/
- #82. exp New Zealand/
- #83. exp Norway/
- #84. exp Poland/
- #85. exp Portugal/
- #86. exp Slovak Republic/
- #87. exp Slovenia/
- #88. exp Spain/
- #89. exp Sweden/
- #90. exp Switzerland/
- #91. exp Turkey/
- #92. exp United Kingdom/
- #93. exp United States/

- #94. 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93
- #95. 18 and 59 and 94

Scopus - TITLE-ABS-KEY

WOS Core Collection - Topic

Social near/1 factor*

#1. "Career mobility"

- #2. Poverty
- #3. "Social class*"
- #4. "Social mobility"
- #5. Education*
- #6. Employment
- #7. Unemployment
- #8. Income*
- #9. Occupation*
- #10. Poor*
- #11. Inequalit*
- #12. Depriv*
- #13. Disadvantag*
- #14. Salary
- #15. Underprivileged
- #16. "Social determinant*"
- #17. Social pre/1 factor*
- #18. Socio*
- #19. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18
- #20. Norovirus
- #21. "Norwalk virus"
- #22. "Acute gastroenteritis"
- #23. "Infectious intestinal disease*"
- #24. "Gastrointestinal infection*"
- #25. Rotavirus
- #26. "Gastrointestinal pathogen*"
- #27. "Gastrointestinal bacteria"
- #28. "Enteric infection*"
- #29. Diarrh*
- #30. "Stomach flu"
- #31. "Gastric flu"
- #32. "Stomach bug*"
- #33. "Stomach virus*"
- #34. "Escherichia coli"
- #35. "Enterobacteriaceae Infection*"
- #36. Dysentery Bacillary
- #37. "Yersinia enterocolitica"

- #38. "paratyphoid fever"
- #39. "typhoid fever"
- #40. "Small round structured virus*"
- #41. "Winter vomiting disease*"
- #42. Sapovirus
- #43. Caliciviridae
- #44. Campylobacter*
- #45. Cryptospor*
- #46. Salmonell*
- #47. Shigell*
- #48. Giardia*
- #49. Listeri*
- #50. VTEC
- #51. STEC
- #52. "Foodborne Disease*"
- #53. Botulism
- #54. "Staphylococcal Food Poisoning*"
- #55. "Food poisoning*"
- #56. Scombro*
- #57. "Clostridium perfringens"
- #58. "Bacillus cereus"
- #59. "Hepatitis A"
- #60. "Hepatitis E"
- #61. 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60
- #62. Australia*
- #63. "New South Wales"
- #64. "Northern Territory"
- #65. Queensland
- #66. Tasmania
- #67. Victoria
- #68. Austria
- #69. Belgium
- #70. Canada
- #71. Alberta
- #72. "British Columbia"
- #73. Manitoba
- #74. "New Brunswick"
- #75. "Newfoundland and Labrador"
- #76. "Northwest Territories"
- #77. "Nova Scotia"
- #78. Nunavut
- #79. Ontario
- #80. "Prince Edward Island"
- #81. Quebec
- #82. Saskatchewan

#83.	"Yukon Territory"
#84.	Chile
#85.	"Czech Republic"
#86.	Denmark
#87.	Greenland
#88.	Estonia
#89.	Finland
#90.	France
#91.	Paris
#92.	Germany
#93.	Berlin
#94.	Greece
#95.	Hungary
#96.	Iceland
#97.	Ireland
<i>#</i> 98.	Israel
# 99 .	Italy
#100.	•
#100. #101.	Sicily
#101. #102.	•
	Japan Tokyo
#103. #104.	Korea
#104. #105.	
	Luxembourg
#107.	Mexico
	Netherlands
	"New Zealand"
	Norway
	Svalbard
#112.	Poland
	Portugal
#114.	"Slovak Republic"
#115.	Slovakia
#116.	Slovenia
#117.	Spain
#118.	Sweden
#119.	Switzerland
#120.	Turkey
#121.	"United Kingdom"
#122.	"Great Britain"
#123.	"Channel Islands"
#124.	Guernsey
#125.	England
#126.	London
#127.	Scotland
#128.	Hebrides
#129.	Wales
#130.	"United States"
#131.	"Appalachian Region"
	0

- #132. Alabama
- #133. Georgia
- #134. Kentucky
- #135. Maryland
- #136. "New York"
- #137. Carolina
- #138. Ohio
- #139. Pennsylvania
- #140. Tennessee
- #141. Virginia
- #142. "Great Lakes Region"
- #143. Illinois
- #144. Chicago
- #145. Indiana
- #146. Michigan
- #147. Minnesota
- #148. Wisconsin
- #149. "Mid-Atlantic Region"
- #150. Delaware
- #151. "District of Columbia"
- #152. Baltimore
- #153. "New Jersey"
- #154. Philadelphia
- #155. Iowa
- #156. Kansas
- #157. Missouri
- #158. Nebraska
- #159. Dakota
- #160. Oklahoma
- #161. "New England"
- #162. Connecticut
- #163. Maine
- #164. Massachusetts
- #165. Boston
- #166. "New Hampshire"
- #167. "Rhode Island"
- #168. Vermont
- #169. Idaho
- #170. Montana
- #171. Oregon
- #172. Washington
- #173. Wyoming
- #174. "Pacific States"
- #175. Alaska
- #176. California
- #177. "Los Angeles"
- #178. "San Francisco"
- #179. Hawaii
- #180. Arkansas

- #181. Florida
- #182. Louisiana
- #183. "New Orleans"
- #184. Mississippi
- #185. Arizona
- #186. Colorado
- #187. Nevada
- #188. "New Mexico"
- #189. Texas
- #190. Utah
- #191. 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 or 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or 167 or 168 or 169 or 170 or 171 or 172 or 173 or 174 or 175 or 176 or 177 or 178 or 179 or 180 or 181 or 182 or 183 or 184 or 185 or 186 or 187 or 188 or 189 or 190
- #192. 19 and 61 and 191

Table B: Included/excluded studies

Table B1: Included studies summary

First Author	Reference Number	Year	Quality	Country/Region	Region	Age Group	Sample Size	Level – individual/ area	Study Design	Pathogen/symptom	GI Measure	SES Measure	Included in meta- analysis	Reason for exclusion from meta- analysis
Adlam	1	2011	High	New Zealand	Oceania	All	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Income	Y	
Arena	2	2014	Medium	France	Europe	Adults	<200	Individual	Case-control	Multi-pathogen	GP Presentation	Multiple measures	Y	
Arsenault	3	2012	Low	Canada	North America	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Education	Y	
Baker	4	1998	Low	UK/Ireland	Europe	Children	5001-10,000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Education	Y	
Banatvala	5	1999	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Salmonellosis	Laboratory records	Deprivation	Y	
Barros	6	2003	Low	Portugal	Europe	Children	200-1000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Education	Y	
Beale	7	2010	Low	UK/Ireland	Europe	Children	5001-10,000	Area	Cohort	Acute GI infection (syndromic)	Population based survey	Social class	N	Analysed same individuals as Baker 1998
Beaudry	8	1995	Low	Canada	North America	Children	200-1000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Social class	Y	
Bemis	9	2014	Low	United States	North America	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Deprivation	Y	
Bessell	10	2010	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Deprivation	Y	
Biering- Sorensen	11	2012	High	Denmark	Europe	Children	>100,000	Individual	Cohort	Acute GI infection (syndromic)	Hospital admission	Education	Y	
Bless	12	2014	High	Switzerland	Europe	All	200-1000	Individual	Case-control	Campylobacteriosis	Laboratory records	Education	Y	
Borgnolo	13	1996	High	Italy	Europe	Children	200-1000	Individual	Case-control	Salmonellosis	Hospital admission	Occupation	Y	
Bozkurt	14	1999	Low	Turkey	Europe	Children	200-1000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Multiple measures	Y	
Bozkurt	15	2003	Low	Turkey	Europe	Children	200-1000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Multiple measures	Y	
Britton	16	2010	Low	New Zealand	Oceania	Not specified	>100,000	Area	Ecological	Multi-pathogen	Laboratory records	Deprivation	Y	
Chang	17	2009	High	United States	North America	Âll	>100,000	Area	Ecological	Multi-pathogen	Laboratory records	Multiple measures	N	Did not use a dichotomous outcome
Cohen	18	2008	Low	United States	North	All	>100,000	Area	Ecological	Multi-pathogen	Laboratory	Income	Y	

			1		America						records			1
Danis	19	2009	Low	UK/Ireland	Europe	All	200-1000	Individual	Case-control	Campylobacteriosis	Laboratory records	Employment	Y	
de Wit	20	2001	Medium	Netherlands	Europe	All	1001-5000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Education	Y	
de Wit	21	2003	Low	Netherlands	Europe	All	200-1000	Individual	Case-control	Multi-pathogen	Population based survey	Education	N	Subset of de Wit 2001
Dennehy	22	2006	High	United States	North America	Children	1001-5000	Individual	Case-control	Rotavirus	Hospital admission	Education	Y	
Doorduyn	23	2012	High	Netherlands	Europe	All	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Education	Y	
Doré	24	2004	High	Canada	North America	All	200-1000	Individual	Case-control	Salmonellosis	Laboratory records	Education	Y	
Duggirala	25	2005	Low	United States	North America	All	200-1000	Individual	Case-control	Hepatitis A	Laboratory records	Education	Y	
Eaton-Evans	26	1987	Low	Australia	Oceania	Children	<200	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Occupation	N	Insufficient quantitative data
Ethelberg	27	2006	Medium	Denmark	Europe	Children	1001-5000	Individual	Case-control	Acute GI infection (syndromic)	Laboratory records	Multiple measures	Y	
Etiler	28	2004	Low	Turkey	Europe	Children	200-1000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Multiple measures	Y	
Evans	29	2006	Medium	UK/Ireland	Europe	Adults	10,001-100,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Employment	Y	
Faustini	30	2006	Medium	Italy	Europe	All	<200	Individual	Case-control	Giardiasis	Laboratory records	Education	Y	
Fein	31	1995	High	United States	North America	Adults	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Education	Y	
Fewtrell	32	1997	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Multi-pathogen	Laboratory records	Employment	N	Did not use a dichotomous outcome
Friedman	33	2004	Low	United States	North America	All	1001-5000	Individual	Case-control	Campylobacteriosis	Laboratory records	Multiple measures	Y	
Fullerton	34	2007	Medium	United States	North America	Children	1001-5000	Individual	Case-control	Campylobacteriosis	Laboratory records	Multiple measures	Y	
Gillespie	35	2008	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Occupation	Y	
Gillespie	36	2010	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Listeriosis	Laboratory records	Deprivation	Y	
Green	37	2006	High	Canada	North America	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Social class	Y	
Gupta	38	2004	Low	United States	North America	All	>100,000	Area	Ecological	Shigellosis	Laboratory records	Deprivation	N	Insufficient quantitative data

Hall	39	2006	High	Australia	Oceania	All	5001-10,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Multiple measures	Y	
Herikstad	40	2002	Medium	United States	North America	All	5001-10,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Multiple	N	Analysed same individuals as Jones 2007
Hu	41	2009	Low	Australia	Oceania	Not specified	>100,000	Area	Ecological	Cryptosporidiosis	Laboratory records	Multiple measures	Y	
Hu	42	2010	Low	Australia	Oceania	Not specified	>100,000	Area	Ecological	Cryptosporidiosis	Laboratory records	Social class	N	Did not use a dichotomous outcome
Hughes	43	2015	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Multi-pathogen	Laboratory records	Deprivation	Y	
Iacono	44	2005	High	Italy	Europe	Children	1001-5000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Education	N	Insufficient quantitative data
Jackson	45	2015	Low	United States	North America	Children	>100,000	Area	Ecological	Shigellosis	Laboratory records	Deprivation	Y	
Jalava	46	2011	Low	Finland	Europe	All	>100,000	Area	Ecological	STEC	Laboratory records	Multiple measures	Y	
Jones	47	2007	Medium	United States	North America	All	10,001-100,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Education	Y	
Kass	48	1992	Low	United States	North America	All	200-1000	Individual	Case-control	Salmonellosis	Laboratory records	Income	Y	
Kotloff	49	1988	Medium	United States	North America	Children	200-1000	Individual	Case-control	Acute GI infection (syndromic)	Hospital admission	Education	N	Insufficient quantitative data
Kum-Nji	50	2009	High	United States	North America	Children	200-1000	Individual	Cohort	Acute GI infection (syndromic)	Hospital admission	Employment	Y	
Kyle	51	2011	Low	UK/Ireland	Europe	Children	>100,000	Area	Ecological	Acute GI infection (syndromic)	Hospital admission	Deprivation	N	Did not use a dichotomous outcome
Lake	52	2007	Low	UK/Ireland	Europe	All	5001-10,000	Area	Ecological	Cryptosporidiosis	Laboratory records	Occupation	Y	
Lake	53	2009	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Cryptosporidiosis	Laboratory records	Social class	N	Insufficient quantitative data
Lal	54	2012	Medium	New Zealand	Oceania	All	>100,000	Area	Ecological	Salmonellosis	Multiple measures	Deprivation	Y	
Lee	55	1991	Low	United States	North America	All	>100,000	Area	Ecological	Shigellosis	Laboratory records	Deprivation	N	Insufficient quantitative data
Ludvigsson	56	2006	Low	Sweden	Europe	Children	5001-10,000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Education	Y	

MacRitchie	57	2013	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Deprivation	Ν	Insufficient quantitative data
Majowicz	58	2007	Medium	Canada	North America	All	5001-10,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Multiple measures	Y	
McAteer	59	2011	High	UK/Ireland	Europe	Adults	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Multiple measures	Ν	Insufficient quantitative data
McPherson	60	2009	Medium	Australia	Oceania	All	200-1000	Individual	Case-control	STEC	Laboratory records	Education	Y	
Moorin	61	2010	Medium	Australia	Oceania	All	>100,000	Area	Cohort	Acute GI infection (syndromic)	Hospital admission	Social class	Y	
Neal	62	1997	Low	UK/Ireland	Europe	Adults	200-1000	Individual	Case-control	Campylobacteriosis	Laboratory records	Social class	Y	
Nichols	63	2012	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Deprivation	N	Insufficient quantitative data
Odoi	64	2004	Medium	Canada	North America	Not specified	>100,000	Area	Ecological	Giardiasis	Laboratory records	Income	Y	
Olowokure	65	1999	Low	UK/Ireland	Europe	All	>100,000	Area	Ecological	Acute GI infection (syndromic)	Hospital admission	Deprivation	Y	
Özkan	66	2007	Low	Turkey	Europe	All	200-1000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Income	Y	
Özmert	67	2008	Low	Turkey	Europe	Children	200-1000	Individual	Case-control	Acute GI infection (syndromic)	Hospital admission	Education	Y	
Pardhan-Ali	68	2013	Low	Canada	North America	All	10,001-100,000	Area	Ecological	Multi-pathogen	Laboratory records	Multiple measures	N	Insufficient quantitative data
Pearl	69	2009	Low	Canada	North America	All	>100,000	Area	Ecological	STEC	Laboratory records	Income	N	Insufficient quantitative data
Penrose	70	2007	Low	United States	North America	All	>100,000	Area	Ecological	Giardiasis	Laboratory records	Income	N	Insufficient quantitative data
Phillips	71	2011	Low	UK/Ireland	Europe	Children	200-1000	Individual	case-control	Norovirus	GP Presentation	Occupation	Y	
Pockett	72	2011	Medium	UK/Ireland	Europe	Children	>100,000	Area	Ecological	Acute GI infection (syndromic)	Hospital admission	Deprivation	N	Did not use a dichotomous outcome
Pollard	73	2014	High	Australia	Oceania	Adults	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Education	Y	
Pyra	74	2012	Low	United States	North America	Adults	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Multiple measures	Y	
Quigley	75	2006	Medium	UK/Ireland	Europe	Children	200-1000	Individual	Case-control	Acute GI infection (syndromic)	GP Presentation	Occupation	N	Data analysed within Phillips

														2011, Rodrigues 2001 and Sethi 2001
Rind	76	2010	High	New Zealand	Oceania	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Social class	N	Did not use a dichotomous outcome
Rodrigues	77	2001	Medium	UK/Ireland	Europe	All	200-1000	Individual	Case-control	Campylobacteriosis	GP Presentation	Employment	Y	
Sakuma	78	2006	Low	Japan	Asia	All	>100,000	Area	Ecological	STEC	Laboratory records	Income	N	Insufficient quantitative data
Sargeant	79	2008	Medium	Canada	North	All	1001-5000	Individual	Cross-	Acute GI infection	Population	Multiple	Y	
					America				sectional	(syndromic)	based survey	measures		
Satterthwaite	80	1999	Medium	New Zealand	Oceania	All	200-1000	Individual	Case-control	Yersinia enterocolitica	Laboratory records	Education	Y	
Scallan	81	2004	High	UK/Ireland	Europe	All	5001-10,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Occupation	Y	
Seo	82	2012	High	Korea	Asia	Not specified	>100,000	Area	Ecological	Hepatitis A	Laboratory records	Multiple measures	N	Insufficient quantitative data
Seo	83	2013	Medium	Korea	Asia	All	1001-5000	Individual	Case-control	Hepatitis A	Hospital admission	Multiple measures	Y	
Sethi	84	2001	Medium	UK/Ireland	Europe	Children	200-1000	Individual	Case-control	Rotavirus	GP Presentation	Occupation	Y	
Simonsen	85	2008	Medium	Denmark	Europe	All	>100,000	Individual	Cohort	Multi-pathogen	Laboratory records	Multiple measures	Y	
Spencer	86	2012	Low	New Zealand	Oceania	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Deprivation	Y	
Stafford	87	1996	Low	Australia	Oceania	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory records	Social class	Y	
Stone	88	1994	Low	UK/Ireland	Europe	All	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Employment	N	Insufficient quantitative data
Tam	89	2013	High	UK/Ireland	Europe	All	5001-10,000	Individual	Cohort	Acute GI infection (syndromic)	Population based survey	Multiple measures	Y	
Teschke	90	2010	Medium	Canada	North America	All	>100,000	Area	Cohort	Acute GI infection (syndromic)	Multiple measures	Income	Y	
Turkish Ministry of Health	91	1995	Low	Turkey	Europe	Children	1001-5000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Education	Y	
Unicomb	92	2008	Medium	Australia	Oceania	All	200-1000	Individual	Case-control	Campylobacteriosis	Laboratory records	Multiple measures	Y	
Van Cauteren	93	2012	Medium	France	Europe	All	10,001-100,000	Individual	Cross- sectional	Acute GI infection (syndromic)	Population based survey	Multiple	Y	

Varga	94	2013	Medium	Canada	North	All	>100,000	Area	Ecological	Salmonellosis	Laboratory	Multiple	Y	
					America						records	measures		
Weisent	95	2012	Low	United States	North	Not	>100,000	Area	Ecological	Campylobacteriosis	Laboratory	Multiple	Y	
					America	specified					records	measures		
Whitney	96	2015	Low	United States	North	All	>100,000	Area	Ecological	Multi-pathogen	Laboratory	Deprivation	Y	
-					America				_		records			
Wilking	97	2012	Low	Germany	Europe	All	>100,000	Area	Ecological	Rotavirus	Hospital	Employment	Y	
_				-	-				_		admission			
Wilking	98	2013	Medium	Germany	Europe	Adults	10,001-100,000	Individual	Cross-	Acute GI infection	Population	Income	Y	
									sectional	(syndromic)	based survey			
Xu	99	2015	Low	Australia	Oceania	Children	>100,000	Area	Ecological	Acute GI infection	Hospital	Social class	Y	
						Children			_	(syndromic)	admission			
Younus	100	2007	Low	United States	North	All	>100,000	Area	Ecological	Salmonellosis	Laboratory	Multiple	Y	
					America						records	measures		
Younus	101	2010	Low	United States	North	Children	200-1000	Individual	Case-control	Salmonellosis	Laboratory	Multiple	Y	
					America	Children					records	measures		
Zappe Pasturel	102	2013	Low	United States	North	All	>100,000	Area	Ecological	Campylobacteriosis	Laboratory	Multiple	Y	
					America						records	measures		

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Table B3: Excluded studies with rationale

Alter 1982 Outcome not acute-GI infection Alter 1989 Outcome not acute-GI infection Alvarado-Esquivel 2014 Asymptomatic participants potentially included Alvarez-Muñoz 1999 Asymptomatic participants potentially included Andrews 2003 No analysis by disadvantaged compared to advanta Araya 1986 Non OECD at time of data collection Art 1991 No analysis by disadvantaged compared to advanta Baaten 2007 Asymptomatic participants potentially included Bilenko 1999 Non OECD at time of data collection Blackman 1989 No analysis by disadvantaged compared to advanta Bojalil 1994 Non OECD at time of data collection Blackman 1989 No analysis by disadvantaged compared to advanta Bojalil 1994 Non OECD at time of data collection Bollag 1980 No analysis by disadvantaged compared to advanta Bockurt 2001 No analysis by disadvantaged compared to advanta Brieseman 1985 No analysis by disadvantaged compared to advanta <	First Author	Year	Reason for exclusion
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Cevahir2013Asymptomatic participants potentially includedCeyhan2008Asymptomatic participants potentially includedCharlett2003No analysis by disadvantaged compared to advantaChiaramonte1983Asymptomatic participants potentially includedCifuentes1999Outcome not acute-GI infectionCifuentes2002Study participants duplicated elsewhere	Çeliksöz	2005b	Asymptomatic participants potentially included
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Charlett2003No analysis by disadvantaged compared to advantaChiaramonte1983Asymptomatic participants potentially includedCifuentes1999Outcome not acute-GI infectionCifuentes2002Study participants duplicated elsewhere	Cevahir	2013	Asymptomatic participants potentially included
Chiaramonte1983Asymptomatic participants potentially includedCifuentes1999Outcome not acute-GI infectionCifuentes2002Study participants duplicated elsewhere	Ceyhan	2008	Asymptomatic participants potentially included
Cifuentes 1999 Outcome not acute-GI infection Cifuentes 2002 Study participants duplicated elsewhere	Charlett	2003	No analysis by disadvantaged compared to advantaged
Cifuentes 2002 Study participants duplicated elsewhere	Chiaramonte	1983	Asymptomatic participants potentially included
	Cifuentes	1999	Outcome not acute-GI infection
	Cifuentes	2002	Study participants duplicated elsewhere
ito unarjois of abadvanaged compared to advanta	Cilla	2010	No analysis by disadvantaged compared to advantaged
Colak 2002 Asymptomatic participants potentially included	Colak	2002	Asymptomatic participants potentially included
Collins 2015 Outcome not acute-GI infection	Collins	2015	Outcome not acute-GI infection
Connelly 2014 Outcome not acute-GI infection	Connelly	2014	Outcome not acute-GI infection
Conway 1990 Outcome not acute-GI infection		1990	Outcome not acute-GI infection
	-		No analysis by disadvantaged compared to advantaged

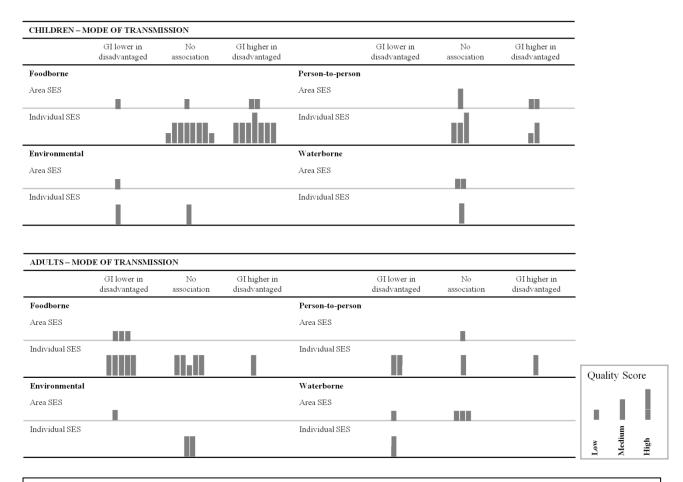
Davila	2009	No analysis by disadvantaged compared to advantaged
Davis	2013	No analysis by disadvantaged compared to advantaged
De Wit	2001b	No analysis by disadvantaged compared to advantaged
Deveci	2014	Asymptomatic participants potentially included
Diel	2001	No analysis by disadvantaged compared to advantaged
Ditah	2014	Asymptomatic participants potentially included
Domínguez	2007	Asymptomatic participants potentially included
Doni	2015	No analysis by disadvantaged compared to advantaged
Dostal	2001	No analysis by disadvantaged compared to advantaged
Drobeniuc	2013	No analysis by disadvantaged compared to advantaged
Dubnov	2004	Non OECD at time of data collection
Ekramul Hoque	2002	No analysis by disadvantaged compared to advantaged
Ellencweig	1986	Non OECD at time of data collection
elSaadany	2002	No analysis by disadvantaged compared to advantaged
Erdogan	2012	Asymptomatic participants potentially included
Erdogan	2004	Asymptomatic participants potentially included
Ersoy	1998	Asymptomatic participants potentially included
Escobedo	2011	No analysis by disadvantaged compared to advantaged
Esparza-Aguilar	2014	Outcome not acute-GI infection
Esparza-Aguilar	2013	Outcome not acute-GI infection
Faulkner	2003	Asymptomatic participants potentially included
Feeney	1998	Outcome not acute-GI infection
Fewtrell	1994	Study participants duplicated elsewhere
Finkelman	1994	Non OECD at time of data collection
Ford-Jones	2000	No analysis by disadvantaged compared to advantaged
Forman	1984	No analysis by disadvantaged compared to advantaged
Forsberg	2009	Review/case report/RCT
Francis	1984	No analysis by disadvantaged compared to advantaged
Fraser	1998	Non OECD at time of data collection
Frost	2004	Asymptomatic participants potentially included
Galanis	2001	No population comparison
Gangarosa	1992	Outcome not acute-GI infection
Gastañaduy	2013	No analysis by disadvantaged compared to advantaged
Gibson	1985	Outcome not acute-GI infection
Gomes	2011	Outcome not acute-GI infection
Graham	1988	No analysis by disadvantaged compared to advantaged
Grimwood	2006	No population comparison
Guerrero	2000	No analysis by disadvantaged compared to advantaged
Haley	2004	No analysis by disadvantaged compared to advantaged No analysis by disadvantaged compared to advantaged
Hannah	2010	Outcome not acute-GI infection
Hannan Harter	1982	No analysis by disadvantaged compared to advantaged
Harter Hayes-Bautista	1982	No analysis by disadvantaged compared to advantaged No analysis by disadvantaged compared to advantaged
Hayes-Bautista Hemmelgarn	1994	No analysis by disadvantaged compared to advantaged No analysis by disadvantaged compared to advantaged
Hepworth	2010	Study participants duplicated elsewhere
-		
Hizo-Abes	2013	No population comparison Non OECD at time of data collection
Но	1988	
Hoque	2002	No analysis by disadvantaged compared to advantaged
Howell	2006	Outcome not acute-GI infection
Huerta	2006	No analysis by disadvantaged compared to advantaged
Hughes	2013	Outcome not acute-GI infection
Ikram	1994	No analysis by disadvantaged compared to advantaged
Imhoff	2004	Study participants duplicated elsewhere

Jayasinghe	2013	No analysis by disadvantaged compared to advantaged
Jiménez-Moleón	2011	No analysis by disadvantaged compared to advantaged
Jones	2007	No analysis by disadvantaged compared to advantaged
Jones	1994	Review/case report/RCT
Julio	2012	Asymptomatic participants potentially included
Kanra	2002	Asymptomatic participants potentially included
Kapperud	2003	No analysis by disadvantaged compared to advantaged
Kapperud	1995	No analysis by disadvantaged compared to advantaged
Karaman	2015	No analysis by disadvantaged compared to advantaged
Kaya	2007	Asymptomatic participants potentially included
Koopman	1989	Asymptomatic participants potentially included
Krebs	2011	Non OECD at time of data collection
Kruszon-Moran	2005	Asymptomatic participants potentially included
Kuhls	1994	No analysis by disadvantaged compared to advantaged
Kurugöl	2003	No population comparison
Kurugöl	2011	Asymptomatic participants potentially included
Kurugöl	2009	Asymptomatic participants potentially included
Kyle	2012	Outcome not acute-GI infection
Lazcano-Ponce	2013	Asymptomatic participants potentially included
Leach	1999	Asymptomatic participants potentially included
Leach	2000	Asymptomatic participants potentially included
Lee	2000	No analysis by disadvantaged compared to advantaged
LeJeune	2013	Review/case report/RCT
Lerman	1999	No analysis by disadvantaged compared to advantaged
	2015	
Leshem		No analysis by disadvantaged compared to advantaged
Letaief	2005	Asymptomatic participants potentially included
Levesque	2013	No analysis by disadvantaged compared to advantaged
Levine	1993	No analysis by disadvantaged compared to advantaged
Levy	1998	No analysis by disadvantaged compared to advantaged
Liddle	1997	No analysis by disadvantaged compared to advantaged
Long	2006	Review/case report/RCT
Lopman	2012	Outcome not acute-GI infection
Lupo	1989	No analysis by disadvantaged compared to advantaged
Ma	2009	No analysis by disadvantaged compared to advantaged
Maguire	1995	No analysis by disadvantaged compared to advantaged
Majowicz	2004	Study participants duplicated elsewhere
Maltezou	2001	No population comparison
Manasek	2004	No analysis by disadvantaged compared to advantaged
Maral	2010	Asymptomatic participants potentially included
Markus	2011	Asymptomatic participants potentially included
Martínez-García	1989	Non OECD at time of data collection
Masia	2004	No analysis by disadvantaged compared to advantaged
McCann	2002	No analysis by disadvantaged compared to advantaged
McQuillan	2004	Asymptomatic participants potentially included
Medeiros	2006	Review/case report/RCT
Mehal	2012	Outcome not acute-GI infection
Mor	2015	Asymptomatic participants potentially included
Morales	1992	Asymptomatic participants potentially included
Morris	1983	Data collected pre-1980
Моуо	2014	Non OECD at time of data collection
Muhsen	2014	Non OECD at time of data collection
Muhsen	2014	Non OECD at time of data collection
munsell	2010	Non OECD at time of data concetton

Mullner	2010	No analysis by disadvantaged compared to advantaged
Naess	2012	No population comparison
Najnin	2014	No analysis by disadvantaged compared to advantaged
Nathwani	1995	Review/case report/RCT
Nelson	1985	Review/case report/RCT
Newbold	2013	No analysis by disadvantaged compared to advantaged
Newman	1999	No quantitative results
Nicoll	2000	No analysis by disadvantaged compared to advantaged
Noone	2000	No analysis by disadvantaged compared to advantaged
North	1999	No analysis by disadvantaged compared to advantaged
Novotny	1990	Asymptomatic participants potentially included
Ochnio	2005	Asymptomatic participants potentially included
Okur	2011	Not available in English
Okyay	2004	Asymptomatic participants potentially included
Olcay	2003	Asymptomatic participants potentially included
Olsen	2006	No analysis by disadvantaged compared to advantaged
Omurtag	2013	No analysis by disadvantaged compared to advantaged
Ong	2012	No analysis by disadvantaged compared to advantaged
Ostan	2007	Asymptomatic participants potentially included
Ozturk	2004	No analysis by disadvantaged compared to advantaged
Ozturk	1996	Outcome not acute-GI infection
Painter	2015	No analysis by disadvantaged compared to advantaged
Palti	1984	Non OECD at time of data collection
Parashar	1998	Outcome not acute-GI infection
Pasquini	1984	Asymptomatic participants potentially included
Patel	2015	Asymptomatic participants potentially included
Peasey	2004	Asymptomatic participants potentially included
Pérez-Rubio	2011	No analysis by disadvantaged compared to advantaged
Pollock	2006	No analysis by disadvantaged compared to advantaged
Potter	2003	No analysis by disadvantaged compared to advantaged
Psichogiou	1995	No analysis by disadvantaged compared to advantaged
Quihui	2010	Asymptomatic participants potentially included
Quihui	2006	Asymptomatic participants potentially included
Quihui-Cota	2015	Asymptomatic participants potentially included
Quinlan	2013	Review/case report/RCT
Rajan	1998	Asymptomatic participants potentially included
Redlinger	1998	No analysis by disadvantaged compared to advantaged
Redlinger	1997	Asymptomatic participants potentially included
Redlinger	2002	No analysis by disadvantaged compared to advantaged
Rees	1995	No analysis by disadvantaged compared to advantaged
Ricotta	2014	No analysis by disadvantaged compared to advantaged
Rishpon	1984	Non OECD at time of data collection
Roos	2005	Outcome not acute-GI infection
Russo	1997	Outcome not acute-GI infection
Sandberg	2006	No analysis by disadvantaged compared to advantaged
Scavia	2012	No analysis by disadvantaged compared to advantaged
Schmeer	2009	No analysis by disadvantaged compared to advantaged
Sénécal	2008	No population comparison
Sepulveda	1988	Non OECD at time of data collection
Silk	2012	Review/case report/RCT
Snel	2009a	Study participants duplicated elsewhere
Snel	2009b	No analysis by disadvantaged compared to advantaged

Spencer	1988	Non OECD at time of data collection
Stafford	2007	No analysis by disadvantaged compared to advantaged
Standeart	2015	No analysis by disadvantaged compared to advantaged
Stone	1993	No population comparison
Strauss	2001	No analysis by disadvantaged compared to advantaged
Stroffolini	1990	Asymptomatic participants potentially included
Stroffolini	1991	Asymptomatic participants potentially included
Stroffolini	1989	Asymptomatic participants potentially included
Stroffolini	1996	Outcome not acute-GI infection
Studahl	2000	No analysis by disadvantaged compared to advantaged
Talbot-Smith	2002	No analysis by disadvantaged compared to advantaged
Tappero	1995	No analysis by disadvantaged compared to advantaged
Termorshuizen	2000	Asymptomatic participants potentially included
Teshale	2015	Asymptomatic participants potentially included
Thomas	1993	Asymptomatic participants potentially included
Thomas	2008	No analysis by disadvantaged compared to advantaged
Thomas	2011	Non OECD at time of data collection
Thoren	1995	No analysis by disadvantaged compared to advantaged
Thoren	1988	No analysis by disadvantaged compared to advantaged
Thornley	2002	No analysis by disadvantaged compared to advantaged
Thrane	2005	No quantitative results
То	1996	Outcome not acute-GI infection
Tosun	2004	Asymptomatic participants potentially included
Uhlig	2014	No analysis by disadvantaged compared to advantaged
Vancelik	2006	Asymptomatic participants potentially included
Vasquez-Garibay	2015	Asymptomatic participants potentially included
Verma	2014	Non OECD at time of data collection
Vranckx	1990	Data collected pre-1980
Vranckx	1984	Asymptomatic participants potentially included
Vrbova	2012	No analysis by disadvantaged compared to advantaged
Vulcano	2007	Asymptomatic participants potentially included
Warburton	1994	No analysis by disadvantaged compared to advantaged
Withers	2002	No analysis by disadvantaged compared to advantaged
Yapicioglu	2002	Asymptomatic participants potentially included
Yoon	2014	Asymptomatic participants potentially included
Zaidi	2012	No analysis by disadvantaged compared to advantaged
Ziv	2011	Non OECD at time of data collection

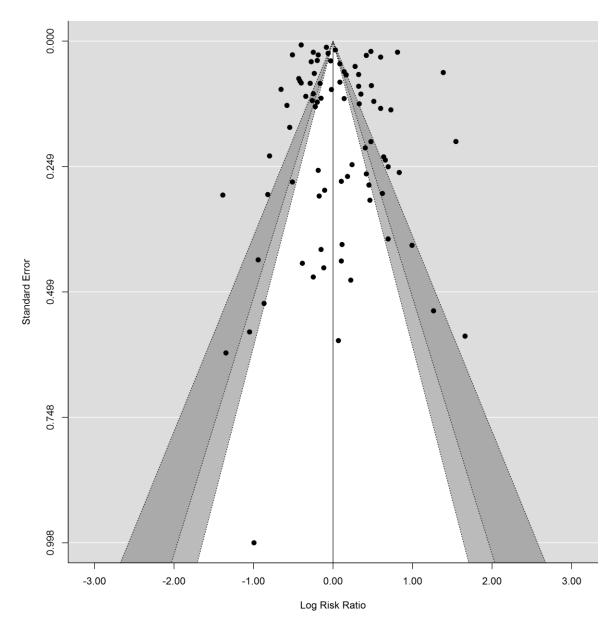
Figure A: Harvest plot for risk of GI infection by SES, stratified by age, predominant pathogen transmission route and SES measure



Appendix 3: Legend

Harvest plots were used to demonstrate the relationship between socioeconomic status (SES) and gastrointestinal (GI) infection risk, by displaying and summarising the results of the studies and the subgrouping graphically. Each reported point estimate for the association between SES and GI infection risk was represented by a single bar. The height of the bars were used to indicate the quality score (low, medium or high quality) assigned to the study from which the estimates arose. The process for assigning quality is described in the Methods section. Children were defined as participants of studies aged less than 18 years; adults were defined as participants of studies aged 18 years or older. Estimates were grouped according to the level at which SES was measured, and pathogen type according to the predominant mode of transmission. The harvest plots partition the point estimates into three results: estimates that indicate GI infection risk is lower in more disadvantaged groups; estimates that indicate there is no relationship; and estimates that indicate GI infection risk is higher in more disadvantaged groups.

Figure B: Contour enhanced funnel plot



White = P-value > 0.10 Mid-gray = P-value between 0.10 and 0.05 Dark-gray = P-value between 0.05 and 0.01 Region outside of funnel = P-value < 0.01