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Supplementary Table. Summary of published studies using multi-locus sequence typing for source attribution

| Attribution Model | Source Animal Dataset | Clinical Dataset | Species | Attribution to Poultry (%) | Attribution to Other Sources (%) | >1 sample type per source | Self-attribution analysis (%) | Reference (First author/year) |
|-------------------|---|--|-----------|-------------------------------|--|---------------------------------|----------------------------------|----------------------------------|
| STRUCTURE | Chicken 1,288 Cattle 586 Sheep 249 Wild bird 170 Environmental 91 from UK, USA, Europe, New Zealand 1990 – 2006 | 3,451 from Scotland 2005-2006 | C. jejuni | 46.4 | 31.0 ruminant 1.9 wild bird | Yes | No | Bessell (2012) |
| Asymmetric Island | Chicken 185 Cattle 171 Duck 70 Turkey 96 Pig 4 from Denmark Chicken 137 from other EU countries 2007 – 2008 | 406: 246 from Denmark 109 travel-related 51 unknown travel history 2007 - 2008 | C. jejuni | 52.0 Danish 17.0 imported | 17.0 cattle 5.0 turkey 2.0 duck 7.0 pig | Yes | No | Boysen (2014) |
| Hald Model | Chicken 185 Cattle 171 Duck 70 Turkey 96 Pig 4 from Denmark Chicken 137 from other EU countries 2007 – 2008 | 406: 246 from Denmark 109 travel-related 51 unknown travel history 2007 - 2008 | C. jejuni | 38.0 Danish 14.0 imported | 16.0 cattle 6.0 turkey 3.0 duck 0.0 pig | Yes | No | Boysen (2014) |
| STRUCTURE | Chicken 742 Cattle 582 Sheep 217 Wild bird 921 from UK, Sweden, Australia 1999 – 2006 | 5,618 from UK 2003 - 2013 | C. jejuni | 47.1 - 56.7 | 15.0 - 20.5 cattle 25.0 - 31.1 sheep 2.1 - 3.5 wild bird | No | No | Cody (2015) |

| Asymmetric Island | 583 from Italy 6,854 from PubMLST (European) na | 31 from Italy 2012 | C. jejuni | 69.8 | 8.3 cattle 5.3 small ruminant 7.3 wild bird 6.3 environmental 3.0 pork | Yes | No | Di Giannatale (2016) |
|-------------------|--|--|-----------|------|--|-----|----|-------------------------|
| Asymmetric Island | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 - 2008 | 502 from New Zealand 2005 - 2008 | C. jejuni | 75.0 | 17.0 cattle 4.0 sheep 2.0 wild bird <1.0 water | Yes | No | French (2008) |
| Dutch Model | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 – 2008 | 502 from New Zealand 2005 - 2008 | C. jejuni | 52.0 | 17.0 cattle 10.0 sheep 5.0 wild bird 11.0 water | Yes | No | French (2008) |
| Modified Hald | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 – 2008 | 502 from New Zealand 2005 - 2008 | C. jejuni | 67.0 | 23.0 cattle 8.0 sheep 1.0 wild bird <1.0 water | Yes | No | French (2008) |
| STRUCTURE | Chicken 435 Cattle 73 Dog 134 from Switzerland and other countries 2003 – 2014 | 351 from Switzerland 2009 | C. jejuni | 44.0 | 36.0 cattle 20.0 dog | Yes | No | Jonas (2015) |
| STRUCTURE | Chicken 175 Cattle 24 Pig 256 from Switzerland and other countries 2008 – 2014 | 32 from Switzerland 2009 | C. coli | 76.0 | 16.0 cattle 8.0 pig | Yes | No | Jonas (2015) |

| STRUCTURE | Chicken 435 Dog 159 from Switzerland 2002 – 2012 | 649 from Switzerland 2002 - 2012 | C. jejuni | 76.8 | 23.2 dog | Yes | Yes; 62.5 chicken 38.1 dog | Kittl (2013) |
|-------------------|---|--|-----------|------|---|-----|----------------------------------|-----------------|
| STRUCTURE | Chicken 175 Pig 360 from Switzerland 2002 - 2012 | 81 from Switzerland 2002 - 2012 | C. coli | 86.4 | 13.6 pig | Yes | Yes; 79.8 chicken 70.1 pig | Kittl (2013) |
| STRUCTURE | Poultry 162 Cattle 40 Environmental 12 Slovenia, Austria, Germany 2002 – 2014 | 69 from Slovenia, Austria, Germany 2002 - 2014 | C. jejuni | 58.0 | 34.8 cattle 7.2 environmental | Yes | No | Kovac (2017) |
| STRUCTURE | Chicken 257 Cattle 87 Wild bird 63 Environmental water 266 from Canada 2005 – 2007 | 178 from Canada 2005 - 2007 | C. jejuni | 64.5 | 25.8 cattle 7.4 water 2.3 wild bird | No | No | Levesque (2013) |
| Asymmetric Island | Poultry 178 Cattle 98 Sheep 4 Goats 3 Pigs 2 Environmental water 207 from Luxembourg, The Netherlands, Belgium and France 2003 – 2014 | 1,153 from Luxembourg 2010 - 2013 | C. jejuni | 58.8 | 36.3 ruminant 4.9 environmental 0.2 swine | Yes | No | Mossong (2016) |
| Asymmetric Island | Poultry 150 Cattle 1 Goats 1 Pigs 60 Environmental water 122 from Luxembourg, The Netherlands, Belgium and France 2003 – 2014 | 136 from Luxembourg 2010 - 2013 | C. coli | 82.4 | 8.8 ruminant 4.5 environmental 4.4 swine | Yes | No | Mossong (2016) |

| Asymmetric Island | 960 from The Netherlands, UK, Scotland and Switzerland - not detailed by species 1990 – 2006 | 696 from The Netherlands 2002 - 2003 | C. jejuni | 66.1 | 21.2 cattle 10.2 environmental 2.4 sheep 0.01 pig | Yes | No | Mughini Gras (2012) |
|-------------------|--|--|------------------------|--|--|-----|----|---------------------|
| Asymmetric Island | As above – not detailed by species | 41 from The Netherlands 2002-2003 | C. coli | 70.0 | 12.2 cattle 8.9 environmental 5.0 sheep 4.9 pig | Yes | No | Mughini Gras (2012) |
| Asymmetric Island | Chicken 625 Cattle 168 Sheep 168 Pigs 160 Pets 133 Environmental 289 from The Netherlands, UK, Switzerland 1990 – 2006 | 737 from The Netherlands 2002 - 2003 | C. jejuni & C. coli | 77.0 | 18.0 cattle 2.0 environmental 2.0 sheep 1.0 pig | Yes | No | Mughini Gras (2013) |
| Modified Hald | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 – 2008 | 773 from NZ 2005 - 2008 | C. jejuni | 80.0 | 10.0 cattle 9.0 sheep 4.0 environmental | Yes | No | Mullner (2009a) |
| Asymmetric Island | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 – 2008 | 502 from New Zealand 2005 - 2008 | C. jejuni | 76.0 | 18.0 cattle | Yes | No | Mullner (2009b) |
| Modified Hald | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 – 2008 | 502 from New Zealand 2005 - 2008 | C. jejuni | >58.0 (58% from one poultry producer, total across 3 producer not given) | | Yes | No | Mullner (2009b) |

| Dutch Model | Chicken 275 Cattle 95 Sheep 136 Environmental water 92 Wild bird 22 from New Zealand 2005 – 2008 | 502 from New Zealand 2005 - 2008 | C. jejuni | 58.0 | 19.0 cattle 12.0 environmental 11.0 sheep | Yes | No | Mullner (2009b) |
|-------------------|---|--|-----------|------|--|-----|----|-----------------|
| Asymmetric Island | Poultry 108 Cattle 17 Sheep 32 Environmental water 11 from New Zealand 2009 - 2014 | 47 from New Zealand 2005 - 2014 | C. coli | 38.0 | 55.0 ruminant 7.0 environmental | No | No | Nohra (2016) |
| Asymmetric Island | Chicken 1,081 Cattle 200 Other poultry 101 Pig 10 Pet 164 from Germany, Luxembourg, Switzerland and The Netherlands 2003 – 2014 | 536 from Germany 2011 - 2014 | C. jejuni | 83.0 | 1.0 cattle 9.0 other poultry 16.0 pet 0.1 pig | Yes | No | Rosner (2017) |
| Asymmetric Island | Chicken 425 Pig 471 Pet 3 Cattle 7 Other poultry 59 from Belgium, France, Germany, Luxembourg, Switzerland, The Netherlands 2003 – 2011 | 76 2011-2014 460 from Luxembourg 2003 - 2013 | C. coli | 56.0 | 0.4 cattle 32.0 pig 4.0 pet 8.0 other poultry | Yes | No | Rosner (2017) |
| STRUCTURE | Chicken 459 Cattle 85 Sheep 57 Pigs 322 from Scotland 2005 – 2006 | 307 from Scotland 2005 - 2006 | C. coli | 40.0 | 41.0 sheep 14.0 cattle 6.0 pig | Yes | No | Roux (2013) |

| Modified Hald | 811: Chicken Cattle Sheep Environmental water from New Zealand | 572 from New Zealand 2005 - 2008 | C. jejuni | 62.0 | 25.6 cattle 8.8 sheep 3.2 water | Yes | No | Sears (2011) |
|-------------------|--|--|-----------|------|--|-----|---|-----------------|
| Asymmetric Island | 2005 – 2008 Chicken 1,288 Cattle 586 Sheep 249 Wild bird 170 Environmental 91 from UK, USA, Europe, New Zealand 1990 - 2006 | 4,743 from Scotland 2005 - 2006 | C. jejuni | 78.0 | 18.0 ruminant 4.0 wild bird & environment | Yes | Yes: 97 chicken 98 ruminant 77 wild bird 62 environmental | Sheppard (2009) |
| STRUCTURE | Chicken 1,288 Cattle 586 Sheep 249 Wild bird 170 Environmental 91 from UK, USA, Europe, New Zealand 1990 – 2006 | 4,743 from Scotland 2005 - 2006 | C. jejuni | 58.0 | 38.0 ruminant 4.0 wild bird & environment | Yes | Yes; 70 chicken 84 ruminant 54 wild bird 38 environmental | Sheppard (2009) |
| Asymmetric Island | Chicken 514 Cattle 98 Sheep 54 Pig 380 Turkey 110 Environmental 67 from UK, USA, Europe, New Zealand 1990 – 2006 | 504 from Scotland 2005 - 2006 | C. coli | 57.0 | 41.0 ruminant 1.0 pig 0.5 turkey 0.5 riparian | Yes | Yes; na | Sheppard (2009) |
| STRUCTURE | Chicken 459 Cattle 86 Sheep 57 Pigs 322 Turkey 111 UK, USA, Europe, New Zealand 1990 – 2006 | 504 from Scotland 2005 - 2006 | C. coli | 40.0 | 40.0 sheep 14.0 cattle 6.0 pig <1.0 turkey | Yes | Yes; na | Sheppard (2009) |

| Asymmetric Island | 1,223 worldwide 2000 - 2008 | 500 from Scotland 2005 - 2006 | C. coli | 57.0 | 41.0 ruminant 1.0 swine 0.5 turkey 0.5 riparian | Yes | Yes; 95 chicken 89 ruminant 94 swine 92 turkey 88 riparian | Sheppard (2010) |
|-------------------|---|---|------------------------|------|--|-----|---|-----------------|
| Asymmetric Island | Chicken 400 Cattle 168 Sheep 160 Pig 133 Environmental 289 from The Netherlands, UK and Switzerland 1983 – 2007 | 1,208 from The Netherlands 2000 - 2011 | C. jejuni & C. coli | 68.0 | 24.0 cattle 6.0 environmental 2.0 sheep and pig | Yes | Yes; 89 chicken | Smid (2013) |
| STRUCTURE | 680 from Scotland 2005 - 2006 | 202 from rural children Scotland 2000 - 2006 | C. jejuni & C. coli | 19.0 | 42.0 cattle 24.0 wild bird 12.0 sheep 3.0 pig | No | No | Strachan (2009) |
| STRUCTURE | 680 from Scotland 2005 - 2006 | 76 from urban children Scotland 2000 - 2006 | C. jejuni & C. coli | 43.0 | 35.0 cattle 6.0 wild bird 15.0 sheep 1 pig | No | No | Strachan (2009) |
| STRUCTURE | 84 from Scotland 2001 | 172 from Scotland 2001 | C. jejuni & C. coli | 47.7 | 19.5 cattle 11.2 sheep 19.6 wild bird 1.8 pig | No | No | Strachan (2013) |
| STRUCTURE | 456 from Scotland 2005 – 2007 | 1,452 from Scotland 2005 - 2007 | C. jejuni & C. coli | 43.8 | 22.5 cattle 14.2 sheep 17.5 wild bird 0.03 pig | No | No | Strachan (2013) |
| STRUCTURE | 708 from Scotland 2010 – 2012 | 1,292 from Scotland 2010 - 2012 | C. jejuni & C. coli | 48.7 | 12.7 cattle 26.8 sheep 9.2 wild bird 2.6 pig | No | No | Strachan (2013) |

| STRUCTURE* | Chicken 304 Cattle 43 Sheep 3 Wild bird 8 Environmental water 81 Duck 3 Dog 3 Goose 3 Other 52 from Europe and N. America 2001 – 2012 | 42 from France 2009 | C. jejuni | 45.8 | 46.9 ruminant 7.3 environmental | Yes | Yes; 80.7 chicken 68.2 ruminant | Thépault (2017) |
|-------------------|--|---|-----------|------|---|-----|---------------------------------------|-----------------|
| STRUCTURE* | Chicken 304 Cattle 43 Sheep 3 Wild bird 8 Environmental water 81 Duck 3 Dog 3 Goose 3 Other 52 from Europe and N. America 2001 – 2012 | 281 from UK 2010 - 2011 | C. jejuni | 56.8 | 37.1 ruminant 6.1 environmental | Yes | Yes; 80.7 chicken 68.2 ruminant | Thépault (2017) |
| Asymmetric Island | Chicken 515 Cattle 282 Sheep 160 Pig 30 Wild bird 44 Rabbit 20 Sand 71 Water 23 from UK, Europe, Senegal, USA, New Zealand 1990 – 2000 | 1,231 from NW England 2000 - 2002 | C. jejuni | 56.5 | 35.0 cattle 4.3 sheep 0.8 pig 1.7 wild bird 0.6 rabbit 0.9 sand 0.2 water | Yes | No | Wilson (2008) |

na: details not available.

^{* 15-}locus MLST