Salmonella Infantis

Background: *Salmonella enterica* subsp. *enterica* serovar Infantis (antigenic formula 6,7,14:r:1,5) is a serovar of the O:7 (C_1) serogroup. *S.* Infantis is commonly found in chickens and broiler flocks. In addition, outbreaks caused by *S.* Infantis have been associated with pet food and treats. In European countries, a multidrug-resistant (MDR) strain of *S.* Infantis was disseminated; this strain emerged from broilers in Hungary (Hungarian clone of S. Infantis). Resistant pattern of this Hungarian clone included resistance to: nalidixic acid, streptomycin, sulphonamide, and tetracycline. In Italy, an MDR strain of *S.* Infantis that showed resistance to ampicillin, chloramphenicol, streptomycin, sulphonamide, tetracycline, kanamycin and trimethoprim/sulfamethoxazole emerged in 2005-06.

Animal reservoir: The main animal reservoirs of serovar Infantis are poultry and swine. In Europe, layer and broiler farms are the major sources of *S.* Infantis.

Geographical distribution: *S.* Infantis is widely distributed and a common serovar in a number of countries. In the U.S. and Europe, it ranks among the top ten serovars. *S.* Infantis has been reported in North America (U.S. and Canada), South America (Argentina, Brazil), Oceania (Australia and New Zealand), Europe (The Netherlands, Finland, Hungary, and Russia), and Asia (Japan).

Outbreaks: Outbreaks linked to poultry and pet food have been reported in the U.S. and Canada.

Year	Location	Associated source	Number of cases
2019	US-multistate	Raw chicken	129
2017	US-multistate	Papaya	4*
2013	US-multistate	Live poultry	125
2012	US-multistate	Dry dog food	49
2012	US-multistate	Live poultry	195
1999	Canada	Pig ear dog treats	35

*This outbreak included multiple serovars

Border Rejections and Recalls:

Year	Exporting Country (if applicable)	Country Issuing Recall/Rejection	Food
2019	Poland	Lithuania	Chicken Wings

Relevant links and references:

1. http://www.cdc.gov/salmonella/dog-food-05-12/
2. http://www.cdc.gov/salmonella/live-poultry-04-13/index.html
3. http://lohmann-information.com/content/l_i_45_artikel15.pdf
4. http://www.ncbi.nlm.nih.gov/pubmed/22564450
5. http://www.ncbi.nlm.nih.gov/pubmed/21821397
6. http://analytics.foodtrack.net/cgi-bin/read?rid=MjAxOTAyMjExMzQ0Rk9PRFRSQ0tCVUxMRVRTXzAyMjExOUw0MjY=&style=html&source=email