

Salmonella Dublin

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**Canadian Animal Health Surveillance System
Dairy Network**

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CONTEXT

- *Salmonella* Dublin infections in cattle
 - Disease has emerge in Quebec in 2011
 - Present in several regions of the world, including the United States, Europe and other Canadian provinces
 - Severe disease (\$) which mainly affects calves less than 3 months old
- *Salmonella* Dublin infections in humans
 - Disease has emerge in Quebec in 2011
 - Severe disease, but rarely reported
 - Sources of contamination in humans
 - Consumption of raw milk or cheese made from raw milk
 - Contaminated beef products
 - Direct contact
- Concerted action plan

PREVALENCE SURVEY

- Results

- 2015 : Prevalence of *Salmonella* Dublin seropositive dairy herds in Québec is estimated at

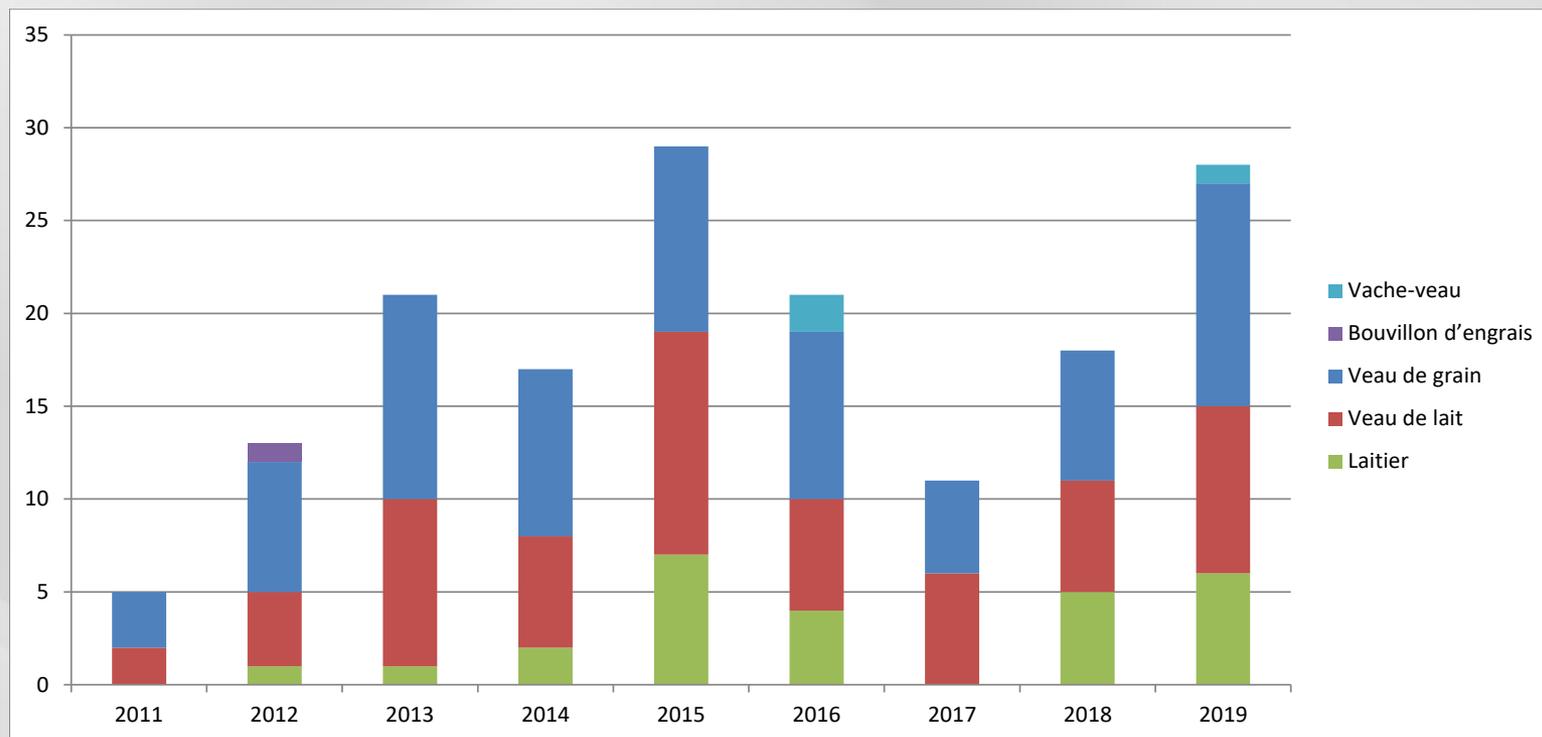
6,8 % (4,4 % à 10,4 %)

- 2016 : Prevalence of *Salmonella* Dublin seropositive cow-calf herds in Québec is estimated at

1,0 % (0,2 % à 5,6 %)

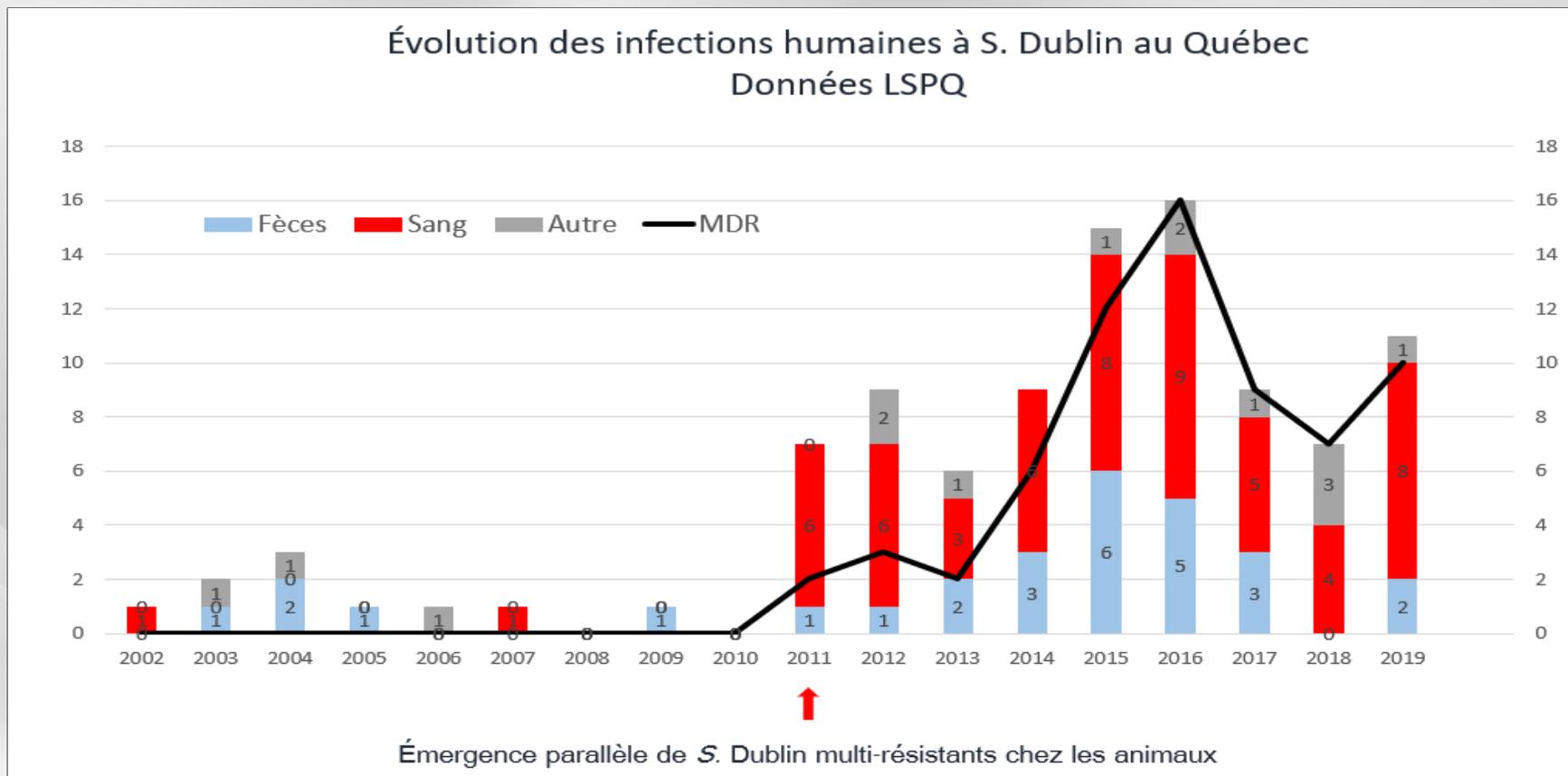
NUMBER OF CATTLE CLINICAL CASES

Figure 1. Nombre d'élevage ayant eu des cas d'infections à *Salmonella* Dublin confirmés par une culture bactérienne ou par une PCR dans les laboratoires du MAPAQ ou déclarés* par d'autres laboratoires de 2011 à 2019 selon le type d'élevage



* À partir du 30 avril 2015, soit la date d'entrée en vigueur du Règlement sur la désignation des maladies contagieuses ou parasitaires, des agents infectieux et des syndromes.

NUMBER OF HUMAN CLINICAL CASES



PREVENTION

- Implementation of an awareness campaign for producers and service providers on *Salmonella* Dublin infections and the importance of biosecurity and management practices, including movement of animals
 - Information session for producers and service providers
 - On farm visits by veterinary practitioners as part of the PISAQ program
 - Salmonella Dublin infections awareness
 - Development of an adapted biosecurity plan
 - Visits free of charge
 - Information document for veterinary practitioners:
https://www.mapaq.gouv.qc.ca/SiteCollectionDocuments/Santeanimale/Reseaubovins/Document_information_Salmonella_Dublin_decembre_2016.pdf

CONTROL

- Intervention protocol
 - Objective: limit the spread of this disease on Quebec territory, ensure food safety and protect public health
 - Intervention following a positive laboratory test result for Salmonella Dublin in a dairy cattle herd
 - Level of intervention based on risk
 - Intervention done by veterinary practitioner and coordinated by MAPAQ
 - Prevention of zoonosis recommendations
 - Biosecurity and management practices recommendations
 - Milk pasteurization circuit
 - Tracing activities

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