RAW MILK

The consumption of raw milk can pose severe health risks to consumers, possibly resulting in reduced trust in the dairy industry and potentially impairing the dairy farm business viability.



KEY FOOD-BORNE PATHOGENS

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Estimated Annual No. Cases ^{1,2} Deaths ^{1,2}				Key Symptoms and Long-term Effects ³
	1,027,561*	378*	Salmonella spp., nontyphoidal	Vomiting, diarrhea, reactive arthritis
	845,024*	76*	Campylobacter spp.	Neurological symptoms (Guillain-Barré Syndrome), Irritable Bowel Syndrome, arthritis, vomiting, diarrhea
	175,905*	20*	Shiga toxin-producing <i>E. coli</i>	Kidney failure, bloody diarrhea
	1,591*	255*	Listeria monocytogenes	Meningitis, abortions, septicemia
	212**	not reported	Coxiella burnetii	Fever, persistent fatigue

^{*} Estimates of domestically acquired food-borne illnesses and death based on the US population in 2006 are adjusted for under-diagnosis and underreporting.

KEY POINTS

of outbreaks occurred in states where the sale of raw milk was legal⁴

During a 19 year period, there were⁵

reported outbreaks linked to non-pasteurized products

1,571 total illnesses

202 total hospitalizations

Hospitalization rates are 13 times

The risk of raw milk causing an outbreak is $\geq 150x$ greater than the risk of pasteurized milk causing an outbreak.⁵

13% VS

VS

1%

higher for patients in outbreaks linked to raw milk than the rate for people in outbreaks linked to pasteurized milk.⁵

Numbers of illnesses attributed to raw milk consumption are likely higher due to underreporting.

Economic Impact Study⁶

Connecticut | 2008

14 cases, 7 confirmed cases

5 hospitalized, 3 experienced hemolytic uremic syndrome

E. coli O157:NM isolated from raw milk produced on 1 farm

Estimated total cost of a single *E. coli* outbreak:

\$413,402

RISKS FOR DAIRY INDUSTRY

RISKS FOR FARMERS



CASE STUDY

Loss in the sales of dairy products

Loss of export markets if food-borne disease cases or outbreaks are linked to dairy products



Lost confidence in dairy products

Personal Consequences

Responsibility of illness or potential death

Financial Loss

Lawsuits Loss of sales & demand



^{**} Data represent the total number of reported cases of acute and chronic Q-fever in 2019 in the US; therefore, the number of cases is likely underestimated.

¹ DOI: 10.3201/eid1701.P11101

https://www.cdc.gov/qfever/stats/index.html

DOI: 10.1016/j.idc.2013.05.00 DOI: 10.3201/eid2101.140447

⁵ DOI: 10.3201/eid1803.11137 ⁵ DOI: 10.1086/657304