



Studies Show Colostrum to be Protective

In a recent study, a specially produced immunoglobulin-enriched bovine colostrum preparation was investigated for its protective effect against infection by deadly antibiotic-resistant *Escherichia coli* O157:H7. After mice were given the *E. coli*, oral administration of colostrum resulted in rapid decrease in the bacteria numbers compared with administration of skim milk. The colostrum worked by preventing the attachment of the organisms to various intestinal tissues. "These results indicate that oral administration of bovine colostrum effectively protects mice against food-borne infections by inhibiting bacterial attachment to the intestinal mucous membrane, colonization and growth in the intestinal tract."

As early as 1979 at the 89th annual meeting of the American Pediatric Society, researchers noted that immune factors in colostrum, when taken orally, are effective against disease-causing organisms in the intestinal tract. They concluded that, "ingesting dairy colostrum immunoglobulins may provide passive immuno-protection against a host of gut-associated antigens."

In a study reported in *The Lancet*, researchers used a 10-day course of bovine colostrum to see if it would protect children aged three to fifteen months against rotavirus, the world's most common pediatric intestinal disease and cause of childhood diarrhea. **Nine of 65 control children not receiving the colostrum acquired rotavirus. None of 55 children receiving the colostrum did.** "The importance of protecting against rotavirus infection was highlighted by the fact that parents of symptomatic rotavirus-positive children sought medical attention seven times more often than did parents of symptomatic rotavirus-negative children."

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THE COLOSTRUM REPORTER

Unsettling Facts about Food-borne Microbes

Here are some food contamination particulars from the U.S. Department of Agriculture Food Safety and Inspection Service. In October, 2002, a Wisconsin-based meatpacker voluntarily recalled 2.3 million pounds of frozen and fresh ground beef linked to *E. coli* bacteria infection among Midwesterners. When ingested by humans, this strain of *E. coli* can lead to dehydration, kidney failure, and even death. In December, a Florida company recalled 1,200 pounds of ready-to-eat, fresh and frozen smoked pork sausage products thought to be contaminated with *Listeria monocytogenes*, another potentially deadly bacterium. In early January 2003, thousands of pounds of listeria-tainted chicken frankfurters were recalled in the Connecticut, Massachusetts, New Jersey, New York area.

Also that month, a South Dakota meatpacker recalled approximately 2,100 pounds of cooked beef products also possibly contaminated with listeria, and a Puerto Rican company recalled approximately 590 pounds of fresh, ready-to-eat pork shoulder contaminated with the same microbe.

Only 'Tip of the Iceberg'

These reports, as shocking and frightening as they are, are only the tip of the iceberg. The January 2003 issue of *Consumer Reports* says it found harmful bacteria, much of it drug resistant, in almost half the chickens it bought from stores around the country, according to a

media report. This means sick people would be harder to treat and stay sick longer.

The Colostrum Solution

First-milking colostrum protects against food poisoning, and the best first-milking product today is Immune Tree Colostrum, of Lehi, Utah, rich in the many immune factors found in natural whole colostrum that provide the gastrointestinal tract with protectors against food-borne pathogens.

In fact, colostrum is considered by public health experts today to be one of the best ways of protecting children from infectious diseases. ❖

Prescription for Protection Against Food Poisoning

You will thank us for this important tip, if not now, certainly when others around you succumb to microbial bugs in the food supply or that are transmitted from person-to-person and you and your family are safe and healthy. Colostrum truly helps protect against food poisoning.

Availability — Immune Tree colostrum products are available at www.bulkcolostrum.com. Questions? Call Donna or Kathi at 541.485.7199 10:00 - 6:00 PM Pacific or E-mail us at excellentthings@pcez.com.

REFERENCES

- Davidson, G.P., et al. "Passive immunisation of children with bovine colostrum containing antibodies to human rotavirus." *Lancet*, 1989;2(8665):709-712.
- Funatogawa, K., et al. "Use of immunoglobulin enriched bovine colostrum against oral challenge with enterohaemorrhagic *Escherichia coli* O157:H7 in mice." *Microbiol Immunol*;2002;46(11):761-766.
- Palmeira, P., et al. "Inhibition of enteropathogenic *Escherichia coli* (EPEC) adherence to HEp-2 cells by bovine colostrum and milk." *Allergol Immunopathol (Madr)*;2001;29(6):229-237.
- McClead, R. et. al, *Pediatrics Research*, 1979;13(4): 464.