



Colostrum and Hepatitis

Dear consumer,

Your inquiry regarding the use of high quality bovine colostrum in association with hepatitis has been forwarded to me. I am a business and technology consultant with extensive knowledge regarding the formation and composition of bovine colostrum and its health-related applications in humans and animals.

Colostrum is an amazing resource of substances necessary to support the development and repair of cells and tissues, to assure the effective and efficient metabolism of nutrients and maintain a healthy immune system. This is not completely surprising when we consider that it is intended for consumption by a newborn calf that has received none of the substances in utero that will be required for its proper development outside of the uterus and that its growth will occur at a very rapid rate, creating a huge demand for energy. In addition, it is ideally suited for consumption by humans since most of its biologically active components have essentially the same chemical structure as the same components found in humans.

You are quite correct that high quality bovine colostrum contains interferon's and that interferon's are the drug of choice for treating hepatitis C. However, most of the available commercial products are based upon genetically-engineered interferon's, while those found in high quality bovine colostrum are naturally occurring.

You should also be aware that routinely supplementing your diet with high quality bovine colostrum provides an additional benefit that is extremely helpful in this circumstance - it promotes a healthy immune system and helps you to ward off invading pathogenic microorganisms. As we age, our immune system loses its ability to regulate itself efficiently, primarily because the thymus, a glandular structure in the upper chest that is considered the seat of the immune system, begins to shrink after puberty and almost disappears by the time we are 50 years old. It has been shown that the thymus can be restored to normal function by the growth factors in colostrum. In addition, colostrum contains specific hormones, called thymosins (A & B), that regulate the functions of the thymus and other substances, like proline-rich peptide (PRP), that help to keep the immune system under control.

I personally do not know of any controlled scientific studies that have been conducted using colostrum to treat hepatitis C infections. However, routine use of a high quality bovine colostrum has certainly helped many people, and its use makes logical sense, as I have detailed above.

Complete colostrum contains both casein (a protein) and fat that are acted upon by an enzyme (rennin) in the stomach to produce a soft curd with the consistency of cottage cheese. The curd formation protects the active components from the acid environment and enzymes in the stomach, allowing them to pass into the small intestine and be absorbed into the body. Spacing

out the doses over time allows for the absorption of more of the active components. If you were taking the larger quantity at each dose, I suspect that your discomfort was due to the very large curd formation in your stomach. In addition, you were limiting the quantity of active components that could be absorbed per capsule ingested.

It is also very, very important to recognize that all colostrum products are not the same and, despite the claims made by their manufacturers, they do not all contain every beneficial component at an optimum concentration and, in many cases, they have been manipulated and may be missing some of the essential components. When choosing a colostrum product, you should be certain that it is made from only first milking bovine colostrum collected within 6-8 hours after birth of the calf and that the colostrum is "complete" and that none of the components have been removed, including the fat. I have personally been responsible for testing of several different brands of colostrum for human use and can attest that the results prove that the products distributed by Immune-Tree contain the highest quality complete bovine colostrum available today.

I hope that this information is beneficial and answers your questions.

To your good health - always.

Sincerely,
Alfred E. Fox, Ph.D.

Dr. Alfred E. Fox holds a Ph.D. from Rutgers University in Microbiology (Immunochemistry) and has more than 25 years of senior management experience at Carter-Wallace, Baxter Dade Division and Warner-Lambert, where he was responsible for research and development and regulatory affairs. He was also the founder and president of two biotechnology companies focused on agribusiness and environmental monitoring, respectively. For the past 15 years, Dr. Fox has been the President of Fox Associates, a business and technology consulting firm serving small- to mid-size companies in the human and animal healthcare fields. He focuses primarily on marketing and regulatory issues and for the past 10 years has continuously consulted to bovine colostrum manufacturers, where he has gained regulatory approval for their products, been a technical advisor, helped design and develop marketing strategies and served as an expert witness in legal matters.

