

## Natural Immune Support Options for Neonate Canines Garlic, Echinacea and Vitamin C

Immune support can be fundamental in the pendulum of the neonates survival of a viral or bacterial infection. Here we will look at a few immune system boosters and the hows and why's of the way they work.

Garlic, contains immune stimulating compounds called allicin. This promotes white blood cell activity, and stimulates immune cells to fight fungal, viral and bacterial infections. Fresh garlic has 100% effectiveness with human rhinoviruses \*common cold, as well as repertory problems and even herpes! Discovery made by the Chief of microbiology, at Brigham Young university. In each Garlic clove you can find 5mg of calcium, 12mg of potassium, and more than 100 different sulfuric compounds, it is these that are highly reactive, and will break apart and form new compounds inside your body and it is in this that gives garlic its amazing infection fighting ability, so much so that fresh garlic was used to prevent gangrene in both world wars! But fresh garlic is needed as heat and water inactivate sulfur enzymes and can diminish antibiotic effects. Studies have shown that crushing garlic and letting it sit for 10 mins help it to retain its properties during cooking.

Echinacea, contains echinacoside, a natural antibiotic also like penicillin, and it is able to kill a broad range of viruses, bacteria, fungi, and even protozoa. Another thing it contains is echinacein, a biochemical that protects against germ attack by neutralizing the tissue-dissolving enzyme hyaluronidase, produced by many germs. In addition to this it can boost T-cell production by up to 30% more than other immune boosting drugs. Echinacea also increases production of chemokine interleukin-8 and MCP-1, which promote immune cells to migrate in greater numbers to infection site. All parts of the plants contain these components but the roots contain the most. But once symptoms start it may be too late to receive full benefits of their amazing properties, some benefit is still given and it often will reduce the length of the symptoms but for maximum benefits it should be given as a preventive measure and taken to build up the immune system before symptom onset. This is largely due to echinacea tricking your body into thinking that is it an invading viral army, and your body builds up antibodies to fight it off, but then it is a non harmful invader, so the antibodies are not used on it, but are then available in greater numbers for a real infection. Because of this it is best to take it for 2-3 weeks and then take a week off as your body will begin to recognize it as a 'false' invader and stop building immunity reserves against it.

Vitamin C and vitamin E levels in full term neonates, median 58.1, did not develop hyperbilirubinemia while neonatal levels with, median 89.4, in the first 24 hours did develop hyperbilirubinemia. This significant finding linking Vitamin E mainly and with lesser findings vitamin C to a leading cause of Hyperbilirubinemia, this is the condition, also called jaundice, is where too much bilirubin, a type of cell waste, is built up in the blood due to a lack of antioxidant build up, which naturally defends against it.

## References

Garlic, eckenhancia, bs, c, gouge berry re vs black, black pigment photochlorides\*  
slippery elm bark

5 Foods for Colds and Flus - Naturally Boost Your Immune System!  
<https://healthfree.com/foods-for-flu-boost-immune.html>

How Garlic Fights Colds and The Flu  
<https://www.healthline.com/nutrition/garlic-fights-colds-and-flu>

Garlic: An Immunity-Boosting Superstar  
A longtime kitchen staple, garlic doesn't just add flavor to most recipes, it's also good for you.  
By Katherine Schaufelberger  
<https://www.webmd.com/food-recipes/features/garlic-immunity-boosting-superstar>

Boosting Your Dog's Immune System

- Dog Immune System
- / By Dana Scott
- <http://www.dogsnaturallymagazine.com/boosting-your-dogs-immune-system/>

Vitamin C megadosage  
From Wikipedia, the free encyclopedia  
[https://en.wikipedia.org/wiki/Vitamin\\_C\\_megadosage](https://en.wikipedia.org/wiki/Vitamin_C_megadosage)

Antioxidant vitamins and hyperbilirubinemia in neonates  
Khalid K. Abdul-Razzak,<sup>\*</sup>1 Mohamad K. Nusier,<sup>2</sup> Ahmad D. Obediat,<sup>3</sup> and Ahmad M. Salim<sup>4</sup>  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2703239/>

Hyperbilirubinemia and Jaundice  
<http://www.stanfordchildrens.org/en/topic/default?id=hyperbilirubinemia-and-jaundice-90-P02375>