

# Healthy Living

Patient Information from the American Chiropractic Association

## Probiotics

In the past decade, probiotics have become increasingly popular in the United States, but many consumers still don't fully understand what probiotics are and what effects they have on the body.

### What are probiotics?

- The term "probiotics" describes microorganisms or other agents that support healthy flora in the human gastrointestinal tract. Healthy flora help digest food, maintain the intestinal endothelium, inhibit pathogens or perform other useful functions.
- There is abundant research on the physiological effects of probiotics-containing foods or supplements, specifically on the use of certain *Lactobacillus* and *Bifidobacterium* strains, as well as the yeast *Saccharomyces boulardii*.
- Human clinical research on probiotics has mostly focused on gastrointestinal conditions.
- Some clinical studies have shown an intriguing effect of probiotics on the immune function.

### The benefits of probiotics

- Diarrhea secondary to pediatric viral infections, antibiotic therapy or foreign travel has been prevented or reduced in severity in numerous controlled trials.
- Four out of five double-blind studies reported benefits to sufferers of irritable bowel syndrome.
- Some success has also been reported in the treatment of ulcerative colitis.
- Some studies have looked at the effect of probiotics on the immune system, and are showing promising remarks.

### Which foods or supplements contain probiotics?

- Probiotics appear to be safe and promising dietary supplements.
- While several foods, such as yogurt, kefir and sauerkraut, contain probiotic organisms, their strains may be quite different and in much lower concentrations compared with the supplements employed in clinical trials.



- Research has yet to show whether certain strains are superior to others and what the optimal daily intake should be for treatment and prevention of various diseases.
- The doses used in studies ranged from two billion to several hundred billion colony-forming units per day.
- Many of the exact strains employed in clinical research are not commercially available in the United States, and it is unclear whether similar products would produce equal results.

### Sources:

1. Reid G, Jass J, Sebulsky MT, McCormick JK. Potential uses of probiotics in clinical practice. *Clin Microbiol Rev* 2003 Oct;16(4):658-72.
2. Drisko JA, Giles CK, Bischoff BJ. Probiotics in health maintenance and disease prevention. *Altern Med Rev* 2003 May;8(2):143-55. ■



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