Pantethine for Cholesterol & Lipid Management

Pantethine, the active form of vitamin B5 (pantothenic acid), is a potent lipid-lowering nutrient. It works by supporting **coenzyme A (CoA) production**, which is essential for lipid metabolism.

Effects on Cholesterol & Lipids:

- **Lowers LDL & Total Cholesterol** – Reduces hepatic cholesterol synthesis, leading to lower circulating LDL levels.
- **Raises HDL (Good Cholesterol)** – Enhances reverse cholesterol transport, supporting heart health.
- **Reduces Triglycerides** – Inhibits liver triglyceride production, lowering blood levels.
- **Improves Lipoprotein Balance** – Decreases small, dense LDL particles that contribute to arterial plaque.

Clinical Support

Studies show **600–1,200 mg/day** of pantethine can significantly improve lipid profiles without the side effects of statins. It's particularly beneficial for individuals with **metabolic syndrome, diabetes, and familial hypercholesterolemia. Pantethine** is particularly effective for familial hypercholesterolemia since it helps regulate cholesterol synthesis without disrupting essential metabolic pathways. Unlike statins, it doesn't interfere with CoQ10 production, making it a safer long-term option for lipid management.

Clinical studies have demonstrated that pantethine supplementation at doses ranging from 900 to 1,200 mg daily can lead to significant improvements in lipid profiles. Below are the observed changes in various lipid parameters:

Total Cholesterol (TC):

- An average reduction of approximately 15% after 4 months of supplementation. NCBI

Low-Density Lipoprotein Cholesterol (LDL-C):

- An average decrease of about 20% after 4 months. NCBI

Triglycerides (TG):

Rebecca Roentsch Montrone, BS | Wondrous Roots, Inc. | 103 Roxbury Street STE 300 | Keene, NH 03431
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- A reduction of approximately 32.9% after 4 months. NCBI

High-Density Lipoprotein Cholesterol (HDL-C):

- An increase of about 8.4% after 4 months. NCBI

These findings suggest that pantethine, at daily doses between 900 and 1,200 mg, is effective in improving lipid parameters, including lowering total cholesterol, LDL-C, and triglycerides, while modestly increasing HDL-C.