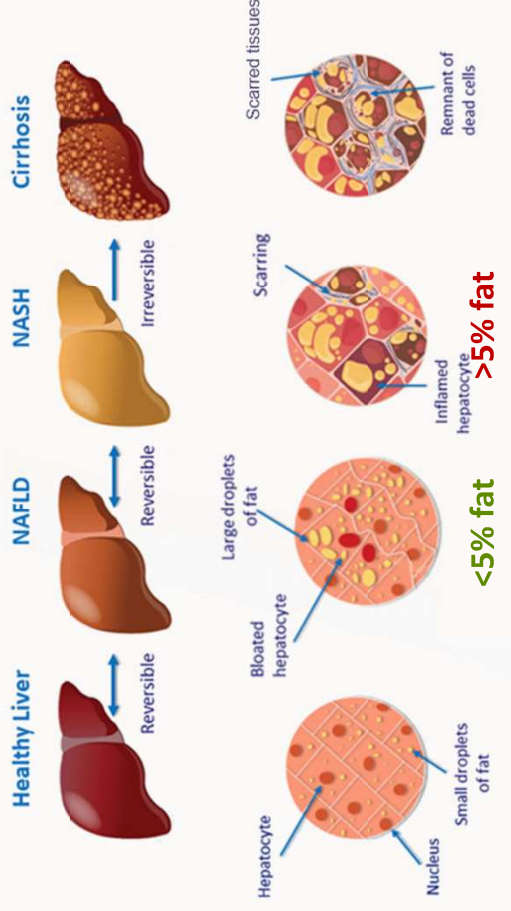


NAFLD - 21st Century Liver Disease Epidemic *



- 80-100m Americans have NAFLD (**30%** of adults)
- **20%** transition to non-alcoholic steatohepatitis (NASH)
- Complications: Inflammation, Fibrosis, Cancer, Infections

*American College of Physicians
www.niddk.nih.gov/health-information/liver-disease/nafla-nash/definition-facts
HCV-trials.com
For Practitioner Use Only. This content is not medical advice. These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Delta-Tocotrienol Improves Fatty Liver in NAFLD Patients

- Randomized, double-blind, placebo-controlled trial
- 71 patients, half taking **300mg** twice daily for **3 months**

Study Parameters	Results
Weight Loss	9.7lbs
BMI	30.7 → 29.2
Waist Circumference	100.2 → 97.98
<hr/>	
Triglycerides	9.9%↓
ALT & AST	15.6%↓ & 14.6%↓
<u>hsCRP</u>	18.0%↓
<hr/>	
FLI (steatosis)	11.1%↓
HOMA-IR	

Pervez MA, Khan DA, Ijaz A, Khan S. Effects of Delta-tocotrienol Supplementation on Liver Enzymes, Inflammation, Oxidative stress and Hepatic Steatosis in Patients with Nonalcoholic Fatty Liver Disease. The Turkish Journal of Gastroenterology. 2018;29(2):170-6. Epub 2018/05/12.

Allen L, Ramalingam L, Menikoffel K, Scoggin S, Shen CL, Tomison MD, et al. Effects of delta-tocotrienol on obesity-related adipocyte hypertrophy, inflammation and hepatic steatosis in high-fat-fed mice. J Nutr Biochem. 2017;48:128-37. Epub 2017/08/22.

Wong WY, Ward LC, Fong CW, Yap WW, Brown L. Anti-inflammatory gamma- and delta-tocotrienols improve cardiovascular, liver and metabolic function in diet-induced obese rats. Eur J Nutr. 2017;56(1):133-50. Epub 2015/10/09.

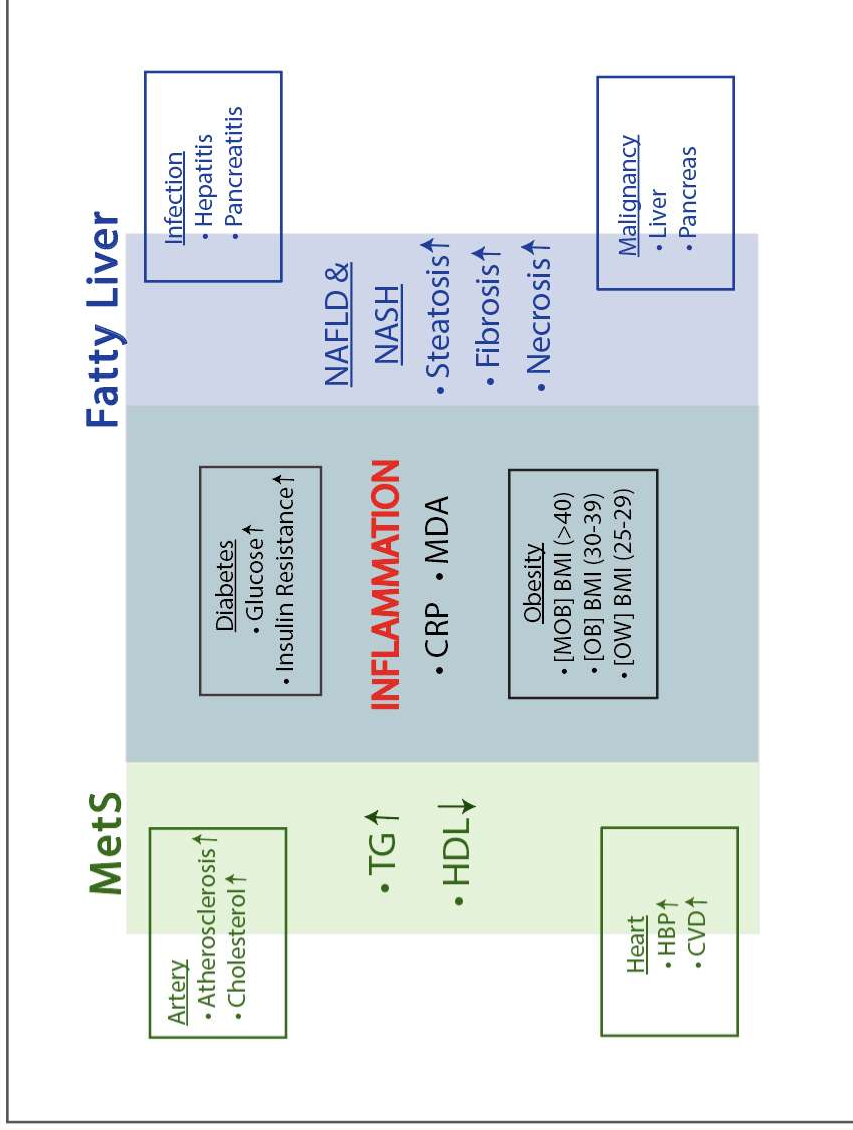
Buckner T, Fan R, Kim Y, Kim J, Chung S. Anatto Tocotrienol Attenuates NLRP3 Inflammation Activation in Macrophages. Current developments in nutrition. 2017;7(6):e000760. Epub 2018/06/30.

Shen CL, Kaur G, Wanders D, Sharma S, Tomison MD, Ramalingam L, et al. Anatto-extracted tocotrienols improve glucose homeostasis and bone properties in high-fat diet-induced type 2 diabetic mice by decreasing the inflammatory response. Scientific reports. 2018;8(1):11377. Epub 2018/07/29.

Shen CL, Kaur G, Wanders D, Sharma S, Tomison MD, Ramalingam L, et al. Anatto-extracted tocotrienols improve glucose homeostasis and bone properties in high-fat diet-induced type 2 diabetic mice by decreasing the inflammatory response. Scientific reports. 2018;8(1):11377. Epub 2018/07/29.

For Practitioner Use Only. This content is not medical advice. These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Mets & Fatty Liver Overlap



Clinical Trials with Delta-Tocotrienol

