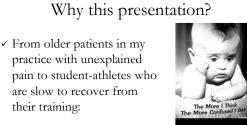




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What should I know about inflammation?

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# Presentation Outline

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✓ What is inflammation?

 $\checkmark$  The 'dark side' of inflammation

 $\checkmark$  Foods that cause inflammation

 $\checkmark$  Foods that fight inflammation



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## The Dark Side of Inflammation

✓ 2002 Issue of Scientific American:

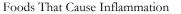
"Today, <u>as we live longer, exercise less, eat too much and smoke,</u> many of us suffer from inflammation's dark side—including <u>its</u> <u>ability to contribute to atherosclerosis and other chronic</u> <u>disorders.</u>"

BIRTH OF A PLAQUE

Lecess LOI: particles accumulate in the artery will and undrego chemical alterations. The modified LOI: sthe stimulate endothelia cells to display adhesion molecules, which latch onto monocytes (central playes' in diffiammation) and T cells (other immune system cells) in the blood. The addothelial cells also scrette "chemokins," which lure the snared cells into the intima. 2 In the intima, the monocytes mature into active macrophages. The macrophages and cells produce many inflammatory mediators; including cytokines (best kown for carrying signals between immone system cells) and factors that promote cell division. The macrophages also display so-called savenger receptors, which help them ingest modified ULS. (c) Complete Chiropractic Healthcare



(called foam cells) and the T cells constitute the fatty streak, the earliest form of atherosclerotic plaque.



#### Newman's Own Organic Tuscan Italian Dressing

Ingredients: Water. Organic Soybean Oil, Organic Distilled Vinegar, Salt, Contains 2% or less of: Organic Garlie, Organic Sugar, Organic Spices, Organic Red Bell Pepper\*, Citric Acid, Organic Paprika, Organic Onico\*, Gum Arabie, Guar Gum.

All Natural Ingredients

- ✓ High fructose corn syrup
  ✓ Acid in body → Disease
- Tield III body 7 Discuse
- ✓ Vegetable Oils
  - Soybean/Com/Cottonseed/Vegetable oils
  - Soybean/Com/Controlseed/vegetable of
     Omega-6 fatty acids
  - ✓ #1 ingredient in salad dressings!
  - #1 ingredient in salad dressing

✓ Splenda

✓ Sugar

✓ Patient testimonials of increased pain/joint stiffness after starting to take Splenda<sup>1</sup>

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#### Foods that Cause Inflammation Cont'd

- ✓ Gluten
  - $\checkmark$  Protein in Wheat
  - Do Oats contain Gluten?
  - They contain a different form of Gluten that do NOT cause inflammation

BUT...

- Most Oat products are processed in facilities that also process wheat so the Oats get contaminated
- ✓ Bob's Red Mill Gluten-free Oats

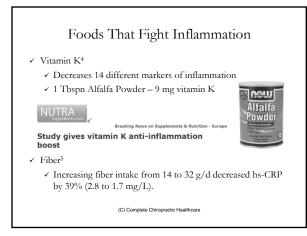
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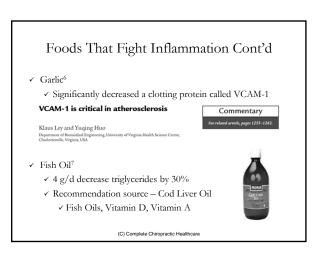
#### Foods that Fight Inflammation

#### **B-Vitamins**

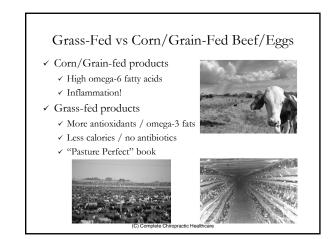
- ✓ Vitamin B6<sup>2</sup>
  - Having B6 levels > 65 nmol/L = 53% lower CRP levels compared to 28.3 nmol/L (2.4 vs 4.7 mg/L)
- ✓ B12/Folic Acid<sup>3</sup>
  - ✓ Lower Homocysteine levels
  - ✓ Crohn's Disease/Ulcerative Colitis patients had
  - ✓ 18% lower B12 levels (281 vs 342 pg/mL)
  - ✓ 20% lower folic acid levels (7.7 vs 9.8 pg/mL)

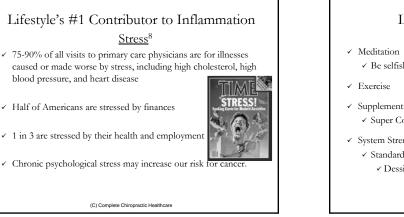
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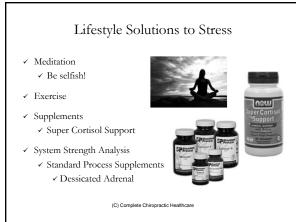












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### Thank you!

- ✓ Please email me at PitchingDoc@msn.com if you have questions
- ✓ 2 final thoughts:

"The difference between history's most staggering failures and its greatest accomplishments is often, simply, the diligent will to persevere." -Abraham Lincoln

"Instead of the principle of maximize human happiness, I prefer the principle of minimizing the suffering in the world."

-Linus Pauling

2-time Nobel Prize winner

Best of luck to you (C) Complete Chiropractic Healthcare