Lehigh Valley Health Network

LVHN Scholarly Works

Department of Family Medicine

Herbs, Supplements and Athletes

Neilson Mathews MD Lehigh Valley Health Network, neil.mathews@lvhn.org

Follow this and additional works at: https://scholarlyworks.lvhn.org/family-medicine

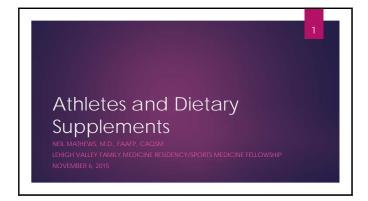
Part of the Sports Medicine Commons, and the Sports Sciences Commons

Let us know how access to this document benefits you

Published In/Presented At

Mathews, N. (2105, November 6). Herbs, Supplements and Athletes. Presentation presented at: Pennsylvania Academy of Family Physicians, Allentown, PA.

This Presentation is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.



Disclosures Dr. Neil Mathews has no conflict of interest, financial agreement, or working affiliation with any group or organization. I have nothing to disclose, but my wife does leave whole-food supplements out for me to take in morning, which I do.

Creatine would most likely benefit which of the following athletes? A. Weight lifter-to improve strength B. Cross country runner-to improve endurance C. Track sprinter-to improve speed D. Ballerina-to help maintain healthy body weight

What percentage of patients did NOT reveal supplement use during a preoperative clearance exams? 25% 33% **c**. 50% 66% What percentage of herbal products tested with DNA barcoding technology revealed product substitution (main ingredient not found AND unknown ingredient found)? 10% 25% В. C. 67% 90% D. Objectives

▶ To be able to list reasons athletes use dietary supplements (DS)
 ▶ To understand the issues related to consumption of DS, including efficacy, purity, quality, and athlete testing
 ▶ To be able to list the DS that have shown to aid athletic performance and explain how they work







Reasons Athletes Take Supplements

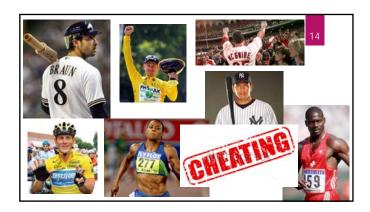
- ▶ "I can't get everything I need from my diet"
 - ▶ In few cases is this true; may need review c Nutritionist
- ▶ "I don't have time to prepare and cook meals"
 - ▶ Does take time; need to plan; help from Nutritionist
- ▶ "Everyone is using them and they will have an advantage over me"
- ► Companies pray on fears; not true, but often slim margin from 1st to 4th place
- ▶ "Supplement recommended by my doctor"
- Limited training for most physicians
- "Natural and organic way to enhance health"
 - ▶ More to come on this; not proven and often not natural
- Note: 50% of Olympic-caliber athletes would take a banned substance if they would win all competitions for 5 years, but die from adverse effects















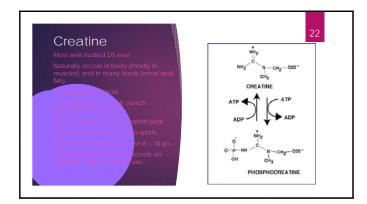




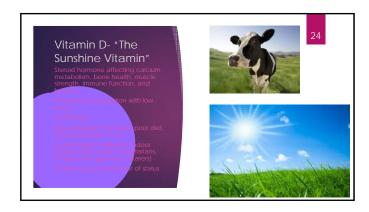




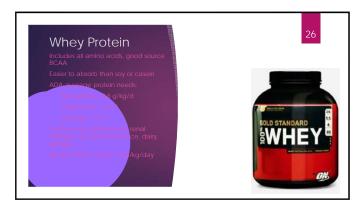


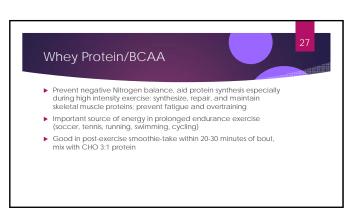






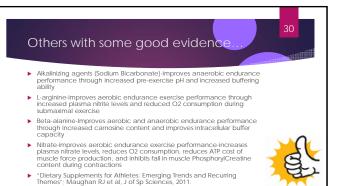






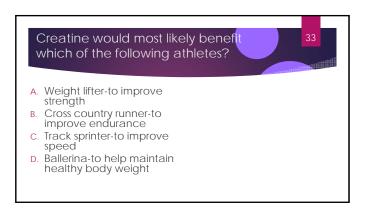












What percentage of patients did NOT reveal supplement use during a preoperative clearance exams? A. 25% B. 33% C. 50% D. 66%

What percentage of herbal products tested with DNA barcoding technology revealed product substitution (main ingredient not found AND unknown ingredient found)?

A. 10%
B. 25%
C. 67%
D. 90%

