Feedback on FDA's Supplement Your Knowledge' and more



CRN examined:

- FDA's consumer education materials, *Supplement Your Knowledge*
- FDA's *Dietary Supplement Continuing Medical Education Program* (developed in collaboration with the AMA)
- FDA's new curriculum for high school science classes,
 - Science and Our Food Supply: Examining Dietary Supplements
- FDA's general treatment and descriptions of dietary supplements and dietary supplement regulation on its website

CRN's recommendations address ways that FDA's content:

- Overstates the potential risks of taking supplements, while downplaying their benefits.
- Fails to convey the robust regulatory framework that gives the agency authority over dietary supplements—downplays areas of existing authority and draws attention to ways FDA lacks authority.
- Misses opportunities to address public health issues like nutrition gaps, shortfalls in nutrient of concern, and nutritional needs of specific populations.
- Could be enhanced by collaboration with the dietary supplement industry.

Cosmetics

VS

Supplements

From FDA's "Cosmetic Products" page:

"Under U.S. law, cosmetic products and ingredients do not need FDA approval before they go on the market. The one exception is color additives (other than coloring materials used in coal-tar hair dyes), which must be approved for their intended use. Companies and individuals who market cosmetics have a legal responsibility to ensure the safety of their products. In order to take action for safety reasons against a cosmetic on the market, we need reliable information showing that it is unsafe when consumers use it according to the directions in the labeling or in the customary or expected way."

The "Information for Consumers on Using Dietary Supplements" page

"The Dietary Supplement Health and Education Act (DSHEA) of 1994, which amended the Federal Food, Drug, and Cosmetic Act, transformed FDA's authority to regulate dietary supplements. Under DSHEA, **FDA is not authorized to approve dietary supplements for safety and effectiveness before they are marketed**. In fact, in many cases, firms can lawfully introduce dietary supplements to the market without even notifying FDA. Since DSHEA was enacted, the dietary supplement market has grown significantly. For example, the number of products has expanded nearly twenty times since 1994."

From FDA's "Cosmetic Products" page:

"Under U.S. law, cosmetic products and ingredients do not need FDA approval (other than Note that cosmetics "do not need FDA approval" oved for their ave a legal but "FDA is not authorized to approve" dietary te action for Co nformation supplements. Other FDA regulated categories are irections in the portrayed as appropriately regulated, while dietary supplements are depicted as Sup 994, which FDA's insufficiently regulated. not

authorized to approve dietary supplements for safety and effectiveness before they are marketed. In fact, in many cases, firms can lawfully introduce dietary supplements to the market without even notifying FDA. Since DSHEA was enacted, the dietary supplement market has grown significantly. For example, the number of products has expanded nearly twenty times since 1994."



Council for Responsible Nutrition

DA U.S. FOOD & DRUG



Overall tone

Supplements

VS

Other foods







FDA acknowledges, but minimizes, the risks Su associated with food (such as mercury in fish) and gives tips to reduce risk. With supplements, risks are highlighted; FDA's solution is don't use them. Note also that omega-3 supplements are highly purified and provide this essential nutrient without risks from heavy metals. Yet supplements are not even mentioned as an alternate source of omega-3s for pregnant women.

Supplement Your Knowledge

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Overall tone



The DGA also mention nutrient shortfalls and the need for supplementation in some populations—but these facts are not addressed in FDA's content about dietary supplements. This is a missed opportunity to provide important information about the prevalence of nutrient shortfalls.

Americans fall short in many key nutrients.¹ The 2020 – 2025 Dietary Guidelines for Americans (DGAs) identified that under-consumption of calcium, potassium, dietary fiber, and vitamin D is of public health concern for the general U.S. population because low intakes are associated with particular health concerns.² Iron was also identified to be of public health concern in adolescent girls and women of reproductive age, as well as in breastfed infants ages 6 through 11 months.^{3,4} In pregnant women, under-consumption of folic acid (in the first trimester), iron, and iodine is also of public health concern.^{5,6} The DGAs also state that adolescent females have low dietary intakes of protein, folate, vitamin B6, vitamin B12, choline, and magnesium, and that dietary protein and vitamin B12 are more likely to be underconsumed in older adults (60+).

³ The 2020 Dietary Guidelines Advisory Committee (DGAC). Scientific report of the 2020 Dietary Guidelines Advisory Committee. Washington (DC): USDA, Agricultural Research Service; 2020.

² U.S. Department of Agriculture (USDA) and U.S. Department of Health and Human Services (HHS). Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.

³ DGAC. Scientific report of the 2020 Dietary Guidelines Advisory Committee. Washington (DC): USDA, Agricultural Research Service; 2020.

⁴ USDA and HHS. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.

⁹ DGAC. Scientific report of the 2020 Dietary Guidelines Advisory Committee. Washington (DC): USDA, Agricultural Research Service; 2020.

⁶ UUSDA and HHS. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.

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FDA materials do not acknowledge that the 2020–2025 Dietary Guidelines for Americans identifies numerous nutrients where low intakes are associated with particular health concerns, and supplements could help offset under-consumption of these essential nutrients.

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⁶ UUSDA and HHS. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December 2020. Available at DietaryGuidelines.gov.

Regulation as a category of food



Suggested rephrasing

Dietary supplements are regulated by FDA in many respects, but they do not require FDA approval for safety or effectiveness before they are sold in stores or online.



The Law

The Dietary Supplement Health and Education Act of 1994 (DSHEA) defined dietary supplements and set out FDA's authority regarding these products. Under DSHEA.

- FDA does not have the authority to approve dietary supplements for safety and effectiveness or their labeling before they are sold in stores or online.
- Dietary supplement companies are responsible for encuring that their products are safe and label claims are truthful and substantiated.
- Dietary supplement companies can introduce new dietary supplements to the market without receiving approval from FDA. In fact, they often can introduce dietary supplements to the market without even notifying FDA.

Oretary supplements include vitamins, minerals, herbs, amino acids, whey protein, and creatine. FDA does not approve dietary supplements before they are sold to the public. Therefore, it is particularly important for consumers, healthcare professionals, and industry members to report healthrelated reactions or illnesses (also known as adverse events) to FDA, so we can evaluate the marketplace and take action to protect the public from possibly unsufe products."

Regulation as a category of food



Regulation as a category of food

Stakeholders need to know that, when compared to other foods, dietary supplements are in many respects *more* regulated.

- As with foods, FDA has inspection authority over dietary supplement facilities.
- Plus, dietary supplements have their own GMP requirements under Part 111 that in many respects are more stringent than those for other foods in Part 110 and Part 117.
- **Dietary supplements must submit their structure-function** claims to FDA, whereas foods do not.
- The serious adverse event reporting requirement is another example of a regulation specific to supplements and not other foods.

Serious adverse event reports

- Portrays adverse events are much more common than they are.
- Examples presented are very frightening —and unlikely.
- FDA should present information on how to report serious adverse events without leading consumers to assume these products pose a higher level of risk.
- The number of serious adverse events associated with dietary supplements—relatively few—should be included to put the risk in context.

By contrast, FDA gets it right in the high school curriculum

Dietary supplements comprise only a small portion of total FDA recalls: just 2% of more than 800 recalls initiated in 2019 involved dietary supplement products.

Manufacturers usually voluntarily recall products of concern.



Content for educators

15 mentions of "benefit"

VS

65 mentions of "risk"



MODULE 2: DIETARY SUPPLEMENTS: RISKS, REALITIES, AND REPORTING

BACKGROUND INFORMATION

What is a Steroid?

The term "steroid" refers to a type of compound that has a specific molecular structure. Generally speaking, steroids mimic hormones that are produced by glands in the human body. But there are different *types* of steroids. Some are used to treat health problems—but others can be dangerous.

Corticosteroids: These are common steroids that are taken—usually for a short time—for a variety of health issues. Corticosteroids are similar to the hormones that your adrenal glands make to fight stress associated with illnesses To learn more about bodybuilding products and FDA's warnings about them, visit: https://www.fda.gov/ consumers/consumer-updates/caution-bodybuildingproducts-can-be-risky

Steroid- Related Risk Prevention Efforts

Steroid Act of 1990





Social media

- The suggested messages for posting are more balanced than other FDA content.
- However, the lead-in language on the toolkit page keeps with the theme of overemphasizing risk.
- And, of course, the content it links to has its issues, as we've shown.

Spread the Word about Dietary Supplements - Social Media Toolkit

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Dietary supplements can be beneficial to your health, but they can also involve health risks. When you take too much of a dietary supplement or take supplements with prescription or over-the-counter medicines, you can have a bad reaction also called an adverse event. And, if you take dietary supplements instead of prescribed medicines, the results potentially could be life-threatening.

Facebook and Twitter Posts

U.S. FOOD & DRUB



How are dietary supplements regulated? What are the benefits? Risks? If you want to know more, FDA has the answers. https://go.use.gov/xuAGK



Always talk with your doctor or other healthcare professional about any supplements you are taking or considering ...and do your research. You can find important facts about dietary supplements on FDA's website. https://go.usa.gov/suAGK

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Content for health care professionals



Content for health care professionals



Content for health care professionals

- Why AMA collaboration but no supplement experts?
- Warnings about ingesting nutrients above 100% Daily Value demonstrates complete lack of appreciation for the appropriate uses of DVs as contrasted with Tolerable Upper Intake Levels (ULs).
- The illustrated doctor-patient consultation is likely to reduce future conversations with the patient about supplements and discourage candor about actual usage.

Why it matters

In addition to educating the core 3 audiences to support public health...

- Journalists and policymakers may access the content for background so it is critical that the fact that FDA regulates dietary supplements is clearly stated.
- There's a difference between encouraging constituents to be smart consumers of safe and beneficial products and painting an entire industry and CPG category as deserving of skepticism.
- CRN seeks to open a more active dialogue as a trusted resource for factual, science-backed as updates are made to educational content or new content is developed in the future.