



Learning Objectives

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At the end of this session, attendees will be able to:

- Discuss key aspects of a sustainable food system and the complementary contributions that plant-and animal-source foods can play in achieving nutritionally adequate diets and reducing risk of non-communicable diseases within sustainable food production.
- Describe various food based dietary guidelines and the importance of providing choices to support personalized nutrition, cultural and personal preferences and traditions.
 Evaluate current challenges and best practices moving forward in communicating the complex and emerging science on the trade-offs and syrregies of dietary patterns to achieve sustainable diets and to minimize unintended consequences for public health.

Suggested Performance Indicators

- 1.8.2 Demonstrates an awareness of the impact of sustainability on the health and well-being of individuals and populations.
- 1.8.5 Recommends sustainable diets and meal plans that are healthy, culturally relevant, accessible, economically fair and affordable, and respectful of their impact on land, water, air and energy use.
- 4.1.2 Interprets and integrates evidence-based research and literature in decision-making.
- 12.2.10 Examines the impact of global food supply and sustainability in order to identify target population needs and barriers.

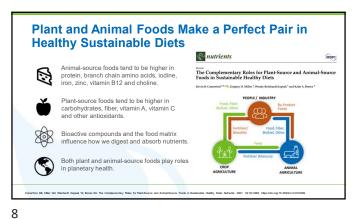
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Personalized Nutrition Plays a Key Role in Food **Based Dietary Guidelines** The Guidelines

Food Systems are Complex and Multifaceted Nutrient-rich food production food safety, accessibility, Food pricing, food equity, profitability, wages air, energy use Cultural, social, regional and religious factors; norms, attitudes and behaviors; social justice Drewnowski A; Ecosystem Inception Team. The Chicago Consensus on Sustainable Food Sys Science. Front Nutr. 2018;4:74. Published 2018 Apr 25. doi:10.3389/frst.2017.00074

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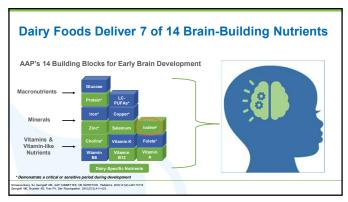






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lodine deficiency is the most preventable cause of intellectual disability in the world.

- The World Health Organization

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Dairy Foods Benefit Brains, Bones & Bodies

- Eating dairy foods during pregnancy is linked with better calcium, vitamin D, potassium, B12, choline and iodine consumption.
- Dairy foods continue to provide essential nutrients to support a child's growth and development, including brain development and also musculoskeletal health for a strong start to a lifetime of health.



ggins K et al. Adequacy of total usual microsubtent intokes among pregnant women in the United States by level of dail resumption, NFARES 2003 - 2016. Natrition and Health. 2022. https://www.ncbi.nlm.nih.go/graciar/ddssPJN.77258002

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60% Yogurt Cheese 8 IDA, FDA and ODS-NH Delabase for the lodine Content of Common Foods per serving, Release 2, January fornal Dairy Council. The Importance of Iodine in Prevalati Brain Deselopment, 2022.

What Foods Provide Iodine?



Impact of Dairy Nutrients on Bone Strength

Calcium plays a structural role in bone.

Dairy Delivers Iodine

Average Daily Value Contributions to Iodine

Vitamin D is required for calcium absorption Protein provides the structural matrix of the bone.

Phosphorus promotes bone strength and the body's acid base balance.

Potassium promotes an alkaline environment helping to preserve

Zinc stimulates collagen production, a key component for strong



merican Academy of Pedatrics. (2014) Optimizing Bose Health in Children and Addescents. https://jpedatrics.aappublications.org/content/ labloc TC, Balley RL, Lappe J, Othren KC, Wing D, Sahri S, Weswer CM. (2003) Daily intake and bose health across the Sespen: a syst marthy. Child Release in Food Science and Natrice, DC: 101.1001/1016/2008 (2001) 1005234

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Systems Supercharge







Dairy Foods Help Active Adults Thrive

Fermented Dairy & Gut Health

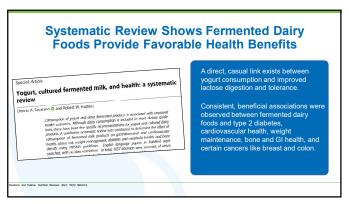
Fermented dairy foods like yogurt with live cultures, hard cheeses and kefir benefit gut health which is connected to our overall health - from mental to physical.

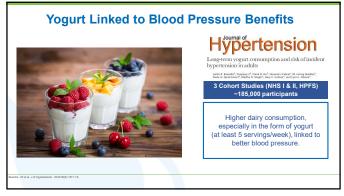
- Provide nutrition and unique bioactives like peptides and essential fatty acids Support digestion, absorption and metabolism which likely helps reduce inflammation

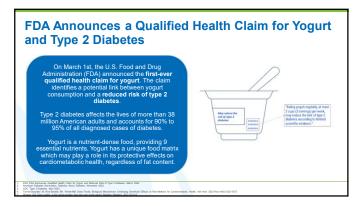


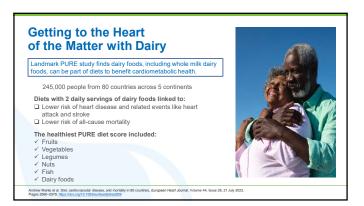
I WP, Logan AC, Acne valgaria, probiotics and the gub-brain-skin axis - back to the Stare? Gut Plathog. 2011;2(1):1. Published 2011 Jan. P, Harnjaki B, Hages E, et al. In there is 'gub-brain-skin axis'?. Exp Dermetal. 2000;19(3):401-465. doi:10.1111/j.1000-0023.2000.01000. in Education Start Star

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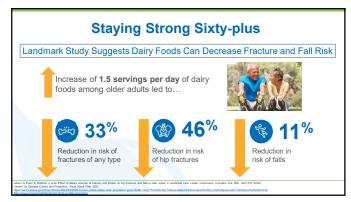






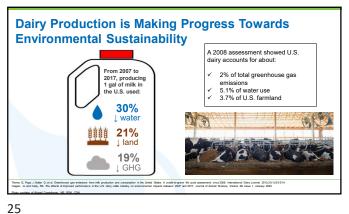


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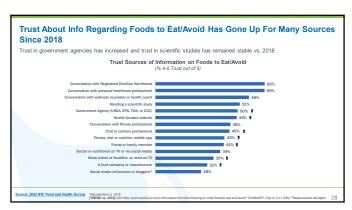


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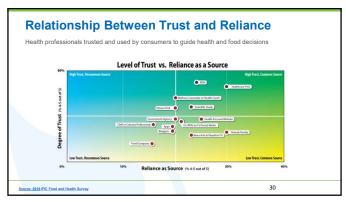


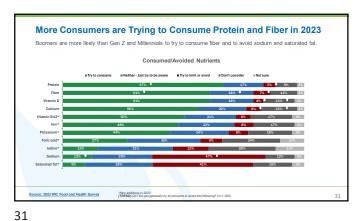


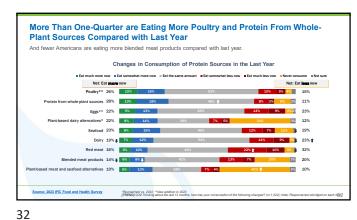
Putting it into Practice

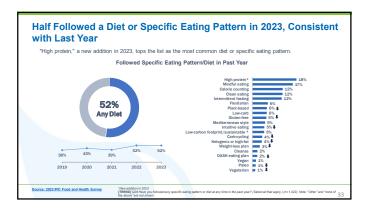








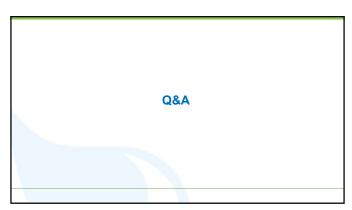




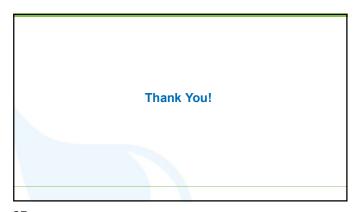
Plant and Animal Foods Complement Each Other in Sustainable Food Systems ✓ No single food group can contribute adequate amounts or ideal ratios of the nutrients essential to human health, so pair plant and animal-source foods for a true power couple. Both plant and animal agricultural sectors are working toward improving production efficiencies and reducing their environmental impacts as the science of sustainability progresses. ✓ Personalization is key and dairy foods can enhance plant-packed

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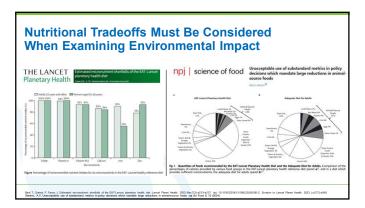


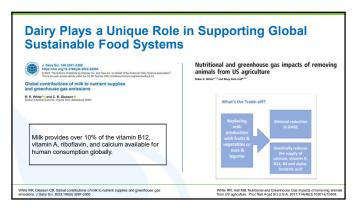


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