

From Farm to Table to the Gut: Fermented Dairy Indiana Academy of Nutrition and Dietetics 2019 Annual Meeting April 11, 2019



Today's Presenters

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#DairyNourishesLife

Learning Objectives

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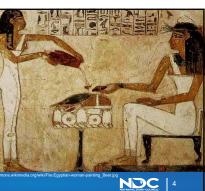
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- 1. Distinguish between fermented foods and probiotics
- Discuss the growing body of scientific evidence supporting consumption of fermented dairy foods within healthy dietary patterns and:
 - a. Reduced risk of type 2 diabetes (T2DM)
 - b. Reduced risk of cardiovascular disease (CVD)
 - c. Emerging evidence on yogurt's role in reducing inflammation
- 3. Describe the benefits of dairy food / fermented dairy matrix
- 4. Provide practical examples for building healthy and appealing eating patterns, which incorporate fermented dairy foods

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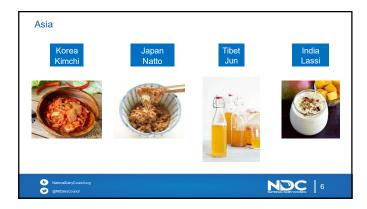
Fermented Foods: What is old is new again

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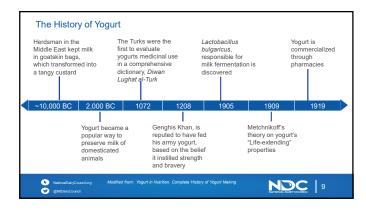








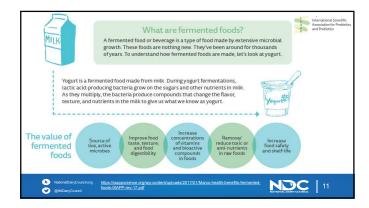


















Fermented Food or Probiotic?

Fermented Foods ✓ Made with microorganisms

- May or may not contain live active cultures at a level to confer a health benefit
- ✓ Most cheeses are fermented foods



The voluntary Live & Active Culture seal indicates a significant amount of the good bacteria remain alive after the fermentation process is complete.

Probiotics
 Should meet FAO definition: "Probiotics
 are live microorganisms that, when
 administered in adequate amounts
 confer a health benefit"

 Yogurts can be considered probiotic for people with lactose intolerance because traditional cultures, Lactobacillus bulgaricus and Streptococcus thermophilus, have been well studied for their ability to help with lactose digestion

stroenterolog Hepatolo. 2014;11:508-514.

Fermented Foods and Gut Health

- The human digestive tract contains approximately 100 trillion bacterial cells = gut microbiota¹
- An imbalance between "good" bacteria and "bad" bacteria = dysbiosis²
- Factors influencing the gut microbiota composition²
 - Vaginal birth vs. Cesarean
 - Breast vs. formula feeding infants
 - · Diet and intake of fiber
 - Antibiotic useHygiene levels

- Genetic background
- Some diseases are characterized by microbial colonization patterns that differ from healthy controls³
- Fermented foods may contain living cultures that can add beneficial bacteria to the digestive tract³

nth. 2018;15:1679 (76(S1):4-15.

· Eating fermented foods helps maintain a balance between good and bad bacteria

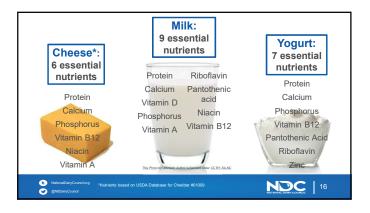
→ contributing to a healthier microbiota³

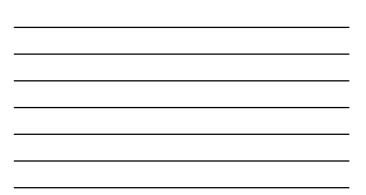
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2005, 2010, 2015* Dietary Guidelines Recommend 3 Daily Servings of Dairy Foods for Those ≥9 years

3 servings for Americans 9 years and older in the Healthy U.S. Style and Healthy Vegetarian Eating Patterns.

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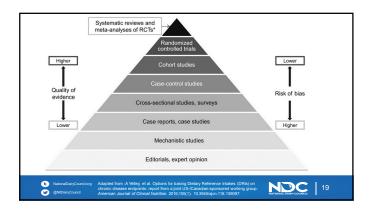


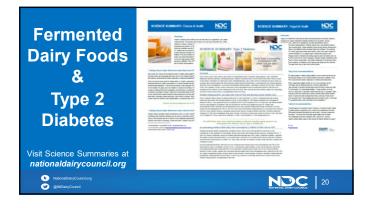
The 2015 DGA states that healthy eating patterns, including low-fat or fat-free dairy foods, are associated with reduced risk for several chronic diseases including cardiovascular disease (strong evidence) and type 2 diabetes (moderate evidence). Research has also linked dairy intake to improved bone health, especially in children and adolescents.

Dietary Guidelines for Americans, 2015-2020

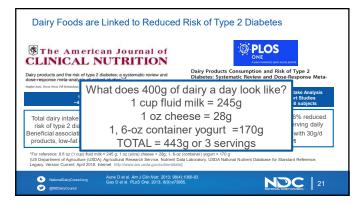
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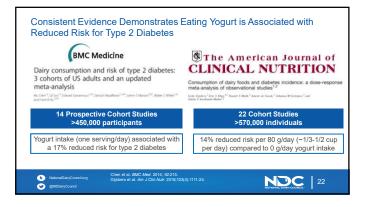




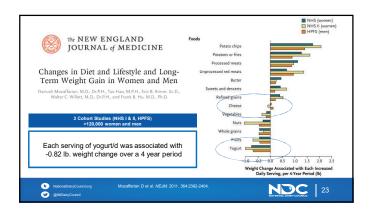




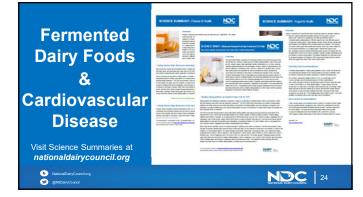




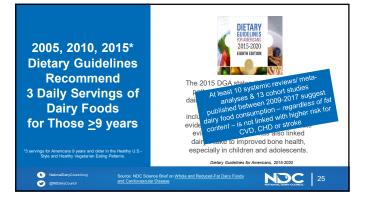




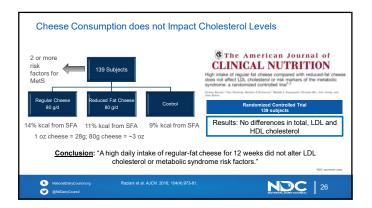




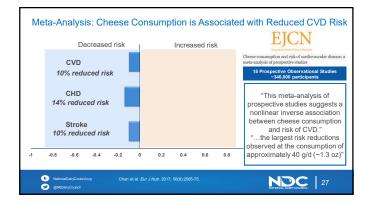




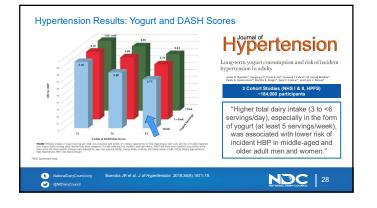




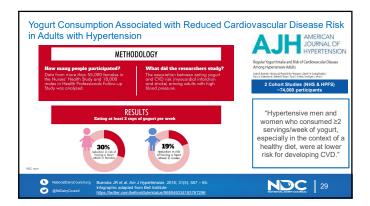




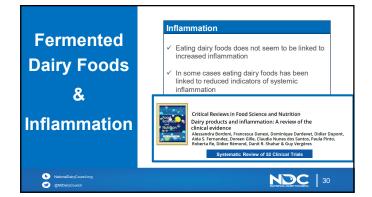




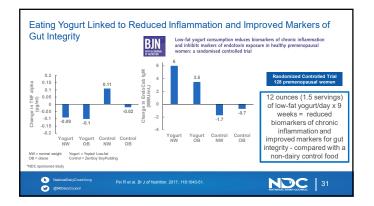




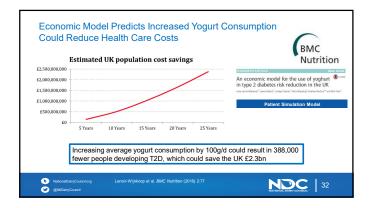


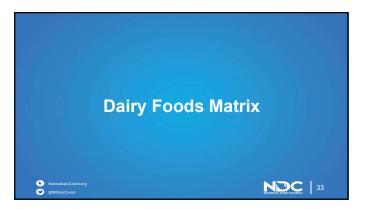






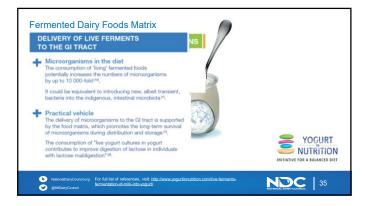






















Safety & Storage to Minimize Food Waste Cheese Mold?

- Do not leave at room temperature for ≥2 hours, 1 hour if ≥90° F
- Keep refrigerator at 35-40° F

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- Factor 20-30 minutes to come to room temp Soft Cheeses: Toss after 2 hours
 - Hard Cheeses: Can sit out for 2 hours then wrap well; refrigerate to use again



- Hard Cheeses: Cut ≥ 1" around and below the mold spot, re-cover the cheese in fresh wrap What about freezing?
- Softer cheese freeze well when shredded · Aged cheese may become crumbly
- Thaw 24-28 hours in refrigerator

Soft Cheeses:

Don't eat

Safety & Storage to Minimize Food Waste Yogurt

- Do not leave at room temperature for ≥2 hours, 1 hour if <u>></u>90° F
- Keep refrigerator at 35-40° F

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- Stored properly, shelf-life: 7-14 days
- Store tightly covered in original container on
 What about freezing? top shelf of refrigerator
- Eating only a portion of a carton? Spoon out what you intend to eat and return the carton to the refrigerator



- If separation occurs, stir the liquid (aka: whey) back into the yogurt
- Changes texture; may lose active cultures · Won't significantly impact nutritional value

Quick Tips for Adding More Fermented Dairy to Your Plate

Breakfast

- · Add yogurt, kefir or buttermilk to your smoothies, granola or oatmeal
- Create a savory breakfast bowl and top with yogurt and shredded cheese

Lunch/Dinner

- · Use yogurt in place of mayonnaise on your sandwiches
- · Try a yogurt-based salad dressing or make your own ranch using buttermilk
- · Top salads with flavorful cheeses to add depth

Snacks

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- Create your own dips using buttermilk or yogurt as the base
- Create yogurt parfaits by layering yogurt with granola & fresh fruit





Conclusions

- Current Dietary Guidelines for American 9 years and older recommend 3 daily servings of dairy foods as part of healthy diet patterns
- Fermented dairy food consumption is on the rise and is associated with lower risk
 of type 2 diabetes and cardiovascular disease as part of healthy diet patterns
- Emerging evidence suggest a reduction in post-meal and chronic inflammation may be one of the mechanisms mediating these beneficial effects
- Foods are more than just the sum of their individual nutrients; the dairy foods/fermented dairy matrix is unique and needs to be considered collectively when looking to understand these health benefits

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Dairy Nourishes	
Dairy Nourishes Network members will receive: Quarterly updates	
Advance notice of webinars Recipe ideas/meal tips	
 Engaging contests Opportunities to be highlighted on NDC's social In-person educational and networking events 	
www.NationalDairyCouncil.org/DairyNourishesNetwork	
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