

# How to be a Smooth(ie) Talker

Sharon Maynard, RD, LD, FAND



- New moms
  - WIC
- School children
  - Teens
- School Nutrition Staff
  - Athletes
- People who are "On the Go"
  - People Health concerns
    - Aging adult





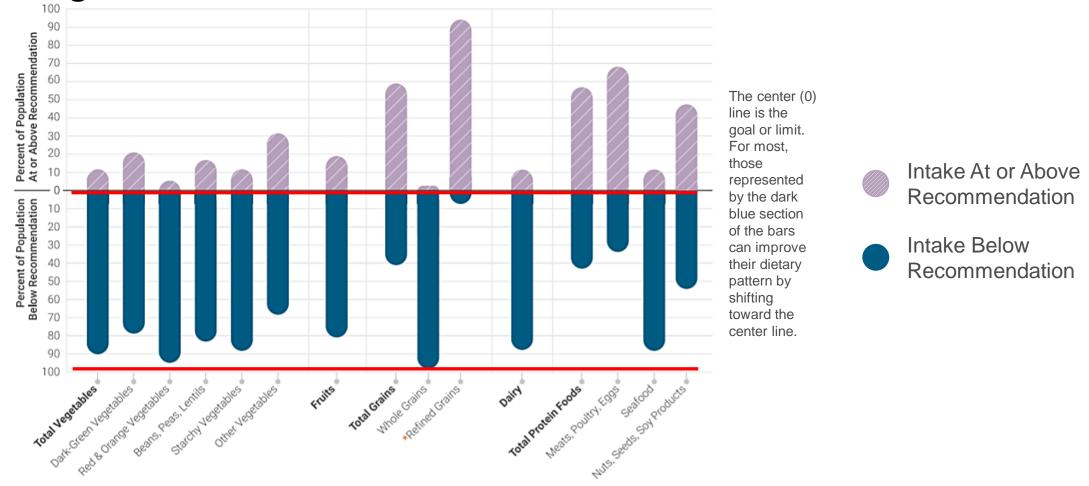


**SKEPTICAL CAT** 



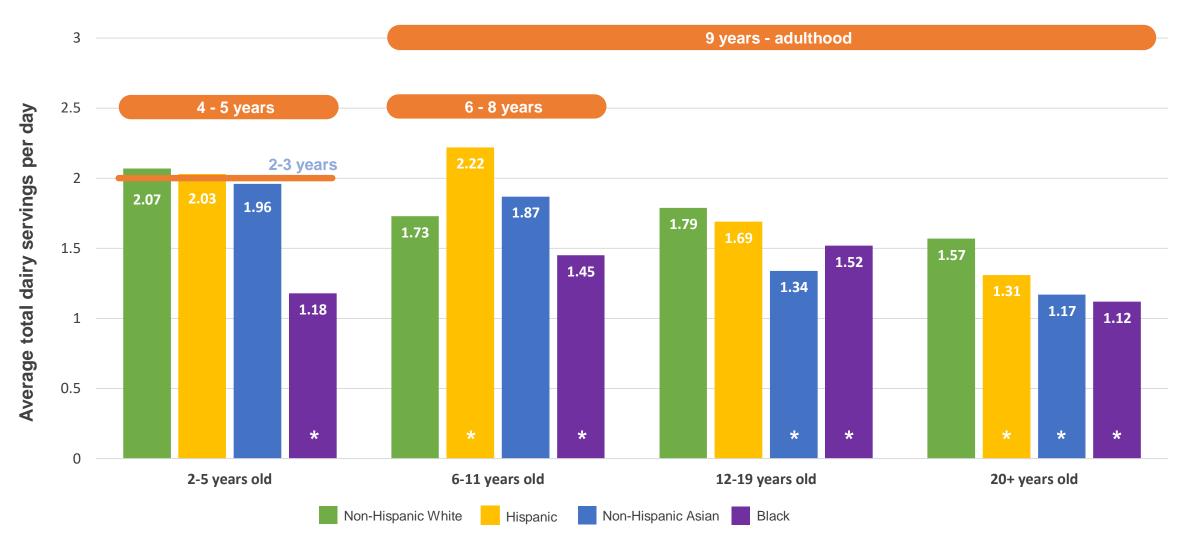


# Most Americans are Falling Short on Dairy, Fruit and Vegetable Recommendations



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

## The Dairy Gap is Evident at an Early Age



NHANES 2015-2018. Data Source: Centers for Disease control and Prevention, National Center for Health Statistics, National Health and Nutrition Examination Survey Data. Hyattsville, MD: U.S. Department of Health and Human Services. http://www.cdc.gov/nchs/nhanes.htm.

## Moms and toddlers



- Growth and Development
- Food introduction
- Picky Eater

**Pregnancy through Breastfeeding is a Pivotal Period to Nourish Baby's Brain Development** 



## Dairy's Cognitive Bundle



**Vitamin B12** helps prevent deficiency that can lead to permanent neurological damage.



**Choline**\* can help replenish maternal stores and supports the healthy growth and development of baby's brain and spinal cord.



**lodine** helps prevent irreversible neurocognitive defects and lower IQ in children.

#### \*One serving of milk provides 8% of the Daily Value for choline

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

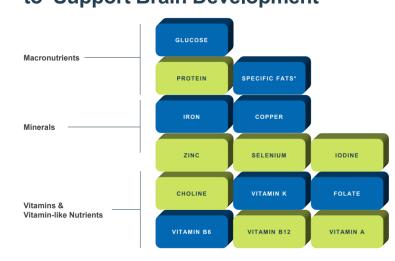
National Institutes of Health, Office of Dietary Supplements. Vitamin B12 Fact Sheet for Consumers. 2021

National Institutes of Health, Office of Dietary Supplements. *Iodine Fact Sheet for Health Professionals and Consumers*. 2022 National Dairy Council. *The importance of iodine in prenatal brain development*. 2021

## Dairy Every Day is a Healthy Way to Support Brain Development

pregnancy

>50% Increase in iodine



7 Green shading indicates nutrients in dairy foods \*Long-chain polyunsaturated fatty acids



Dairy foods offer 7 of the 14 nutrients AAP notes as important for early cognitive development.

Schwarzenberg SJ, Georgieff MK, AAP COMMITTEE ON NUTRITION. Pediatrics. 2018;141(2):e20173716 Georgieff MK, Brunette KE, Tran PV. Dev Psychopathol. 2015;27(2):411-423. USDA, ARS. FoodData Central, 2019. fdc.nal.usda.gov

# Iodine Deficiency May Be the Most Preventable Cause of Intellectual Disability in Children

- Prenatal iodine deficiency may lead to:
  - irreversible neurocognitive defects
  - lower childhood
     IQ
- Women who limit/avoid dairy, eggs and seafood are at greater risk for deficiency

#### How Much Iodine Do You Need?

LIFE STAGE	RECOMMENDED AMOUNT RDA <sup>A</sup> /AI <sup>B</sup>
Pregnant teens ar women	nd 220 mcgª
Breastfeeding tee and women	ns 290 mcgª
Birth to 6 months	110 mcg <sup>b</sup>
Infants 7-12 mont	hs 130 mcg <sup>b</sup>
Children 1-8 years	s 90 mcg <sup>a</sup>
Children 9-13 yea	rs 120 mcgª
Teens 14–18 years	150 mcgª
Adults	150 mcg <sup>a</sup>

#### What Foods Provide Iodine?"

FOOD	SERVING SIZE	MICROGRAMS PER SERVING	PERCENT DAILY VALUE (DV)*
Cod, baked	3 ounces	158	<u>105%</u>
Low-fat milk (1%)	1 cup	88	59%
Yogurt, Greek, plain, fat-free	6 ounces	87	58%
lodized table salt	¼ tsp	76	51%
Fish sticks	3 sticks	58	39%
Cottage cheese (reduced fat)	½ cup	39	26%
Pasta, cooked in iodized salt	1 cup	38	25%
Swiss cheese	3 slices**	36	24%
Crab, canned and cooked	3 ounces	32	21%
Egg, hardboiled	1 egg	26	17%
American cheese	3 slices**	18	12%
Cheddar cheese	3 slices**	15	10%
Shrimp, pre-cooked	3 ounces	13	9%
Salmon, baked	3 ounces	14	9%
Soy beverage	1 cup	1.5	1%
Almond beverage	1 cup	<1	1%
Non-iodized sea salt	¼ tsp	<1	1%

\*The Daily Value for iodine is 150 mcg for healthy adults and children over the age of 4. \*\*Cracker sized slice of cheese

Dietary Guidelines Advisory Committee. 2020. Scientific Report of the 2020 Dietary Guidelines Advisory Committee: Advisory Report to the Secretary of Agriculture and the Secretary of Health and Human Services. U.S. Department of Agriculture, Agricultural Research Service, Washington, DC.

National Institutes of Health. Office of Dietary Supplements. *Iodine Factsheet for Health Professionals*. 2022

Panth P, Guerin G, DiMarco NM. A Review of Iodine Status of Women of Reproductive Age in the USA. Biol Trace Elem Res. 2019;188(1):208-220.

## Dairy Foods Can Begin to be Introduced Around Six Months of Age



- Five Signs of Developmental Readiness for Solids
- ✓ Controls head and neck
- Sits up alone or with support
- ✓ Brings objects to their mouth
- Tries to grasp small objects
- Swallows food, rather than pushing it back onto chin

	III IIIE FIISI I		
0-6 Months	6 Mo	nths	12 Months
Breast milk or iron-fortified formula, exclusively	Yogurt (Plain, Whole-fat, Whole-fat Greek)	Cheese (Pasteurized)	Whole Milk

**Introduction of Dairy Foods** 

in the First 12 Months



AAP/NDC. Guide to Feeding Your Baby for the First Two Years.

## National Dairy Council Pediatric Care Specialist Pilot

Program

All aboard for healthy eating!



## Dairy Every Day is a Healthy Way

**Brain Health** 

Dairy foods provide

7 of 14 nutrients key

for early brain

development.

Plant-based milks - aside from fortified soy milk - don't match the nutrition in dairy milk. Be sure to read

the food label.

**Strong Bones** 

Dairy foods provide bone-building vitamins and minerals.

Immune Health Dairy foods provide nutrients, as part of a healthy diet, important for immune health.

Growth Dairy foods have key nutrients that fuel growth and development.

## WIC and early childhood education

soon!





#### CONTACT US

Office of Nutrition Services West Virginia WIC Program

Call 1-844-601-0365 or 304-558-0030 Text localwic + zip code to 67076 Email dhhrwic@wv.gov Visit dhhr.wv.gov/wic Participant Portal wywichousehold.wvdhhr.org

Health, WEST VIRGINIA Human

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Fruits and vegetables can be diced or pureed 1 tablespoon per age for toddlers is a

healthful single serving of fruits & veggies. (1 yr = 1 tbsp, 2 yr = 2 tbsp, etc.)

Contact your WIC nutritionist if you need

soy or lactose free milk.

and vegetables.

A variety of cheeses are available.

Use your cash value benefits (CVB) to

purchase fresh, frozen or canned fruits

#### TOTAL DAILY SERVING SIZES

1 year 2-5 years 5+ year 1%-2 oz 1%-3 oz 3-4 oz grains fruits 1%-1cup 1-2 cups 2 cups 1-2 cups 2-3 cups veggies 1 cup dairy 1-2 cups 2-236 cups 3 cups protein 2 oz 2 - 5 oz 5 - 6 oz



American In partnership with the American -Dairy Dairy Association Mideast. For more information about dairy foods, visit Drink-Milk.com

#### PERFECT PAIRINGS FOR **KIDS & YOU**

Simple food combinations to power your day!

Looking for new ways to use your WIC foods? Inside you will find lots of fun ideas for pairing different WIC foods that will add variety to your menu. Snack time is a great time to get your little helpers involved, too. Choose and enjoy "perfect pairings" for you and your family!





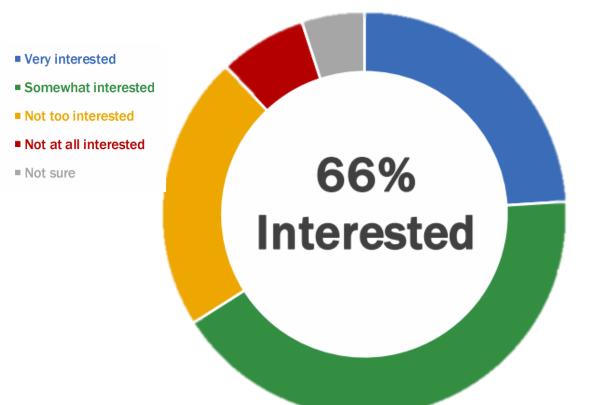
## Children





## Parents are Interested in Providing Nutrients to Build Bone Mass and Support the Immune System

#### Interest in Learning More About the Role that Foods and Nutrients Play in Immune Health



# 74%

of parents with children under 18 say that they are interested in immune health vs. 64% of those without children under 18

International Food Information Council. *2021 Food & Health Survey*. 2021 Weaver CM, Gordon CM, Janz KF, et al. The National Osteoporosis Foundation's position statement on peak bone mass development and lifestyle factors: a systematic review and implementation recommendations *Osteoporos Int*. 2016;27(4):1281-1386. Calder PC, Carr AC, Gombart AF, Eggersdorfer M. Optimal Nutritional Status for a Well-Functioning Immune System Is an Important Factor to Protect against Viral Infections. *Nutrients*. 2020;12(4):1181.

## Dairy Every Day is a Healthy Way to Benefit Immunity



Immunity-important Nutrients Protein (Milk, Cheese, Yogurt) Selenium (Milk) Zinc (Milk, Yogurt)

## Vitamins

- A (Milk, Cheese Fruits, Vegetables)
- B6 (Fruits, Vegetables)
- B12 (Milk, Cheese, Yogurt)
- C (Fruits, Vegetables)
- D (Milk)
- E (Nuts, Seeds)







#### Breakfast Matters

## KiDSeat right.

8 Gameday Nutrition Tips for Young Athletes

Contributors: Jill Castle, MS, RDN Published: October 25, 2017 Reviewed: April 06, 2020



Adopt a Cow Program Teachers can sign up for this exciting year-long classroom experience.





Cooking with Kids

## KiDS eat right.

#### **Explore Produce with Kids**

Contributors: Beth Fontenot, MS, RD, LDN and Esther Ellis, MS, RDN, LDN Published: March 02, 2022 Reviewed: June 17, 2022



# KiDS eat right.

Your Pre-Teen's Weight

## **BENEFITS OF DRINKIN CHOCOLATE M**

CHOCO)

## 8 oz = 8 g OF PROTEIN.

A natural source of high-quality protein to build lean muscle

#### **3:1 RATION OF** CARB:PROTEIN.

The right mix of fluids, carbs and protein to rehydrate and refuel muscles

#### **13 ESSENTIAL** NUTRIENTS.

A powerful package of nutrients including calcium, vitamin D and protein to help build strong bones and bodies



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VISIT DRINK-MILK.COM

#### **DAIRY, INFLAMMATION** AND IMMUNITY 🐂 WHAT'S THE CONNECTION?

#### DAIRY

- includes milk, cheese and yogurt contains 13 essential nutrients
- consuming 3 servings/day is recommended

#### **INFLAMMATION**

• imbalance of pro-inflammatory and antiinflammatory markers in the body can lead to chronic disease

#### THE IMMUNE SYSTEM

Ş • protects us from infection and illness • important nutrients are protein, iron, vitamins A, C, D and E, zinc, selenium and folate

#### **DAIRY + INFLAMMATION**

 decreases or has a neutral effect on pro-inflammatory markers · increases anti-inflammatory markers

#### DAIRY + HEART DISEASE

• dairy consumption has a beneficial or neutral effect on risk and incidence • lower fat dairy may be more beneficial

#### **DAIRY + IMMUNE SYSTEM**

• immune cells need nutrients to function 0. • dairy foods are great sources of 5/9 ಿ೦ important nutrients

#### **FERMENTED DAIRY**

- includes yogurt and cheese, among others
- has a beneficial or neutral effect on heart health and blood lipids

#### THE BOTTOM LINE

- dairy doesn't increase chronic disease risk • dairy consumption can support anti-
- inflammation and the immune system









#### **13 WAYS MILK** Can help your body One serving of milk contains many of the essential nutrients your body needs, including: Calcium Pantothenic acid Helps build and maintain strong bones Helps your body use carbohydrates, fats and and teeth. protein for fuel Protein Helps provide sustained energy. Helps Niacin build and maintain lean muscle. Helps maintain a healthy immune system. Used in energy metabolism in the body. Vitamin D Zinc Helps build and maintain strong Helps maintain a healthy immune system, helps bones and teeth. Helps maintain a support normal growth and development and healthy immune system helps maintain healthy skin. Phosphorus Selenium Helps build and maintain strong bones Helps maintain a healthy immune system, helps and teeth, supports tissue growth. regulate metabolism and helps protect healthy cells from damage. Vitamin A Helps keep skin and eyes healthy; helps Necessary for proper bone and brain promote growth, Helps maintain a development during pregnancy and infancy; linked to cognitive function in childhood. Ithy immune system Riboflavin Potassium\* Helps your body use carbohydrates, Helps maintain a healthy blood pressure and supports heart health. Helps regulate body fluid fats and protein for fuel. balance and maintain normal muscle function. Vitamin B12 DRI recommendation. In 2019, NASEM updated the DRI to 3400 mg. IS DRI, a serving of milk provides 10% of the DRI. FDA rule-making is Helps maintain healthy immune, blood and nervous system function. Supports normal energy metabolism. Necessary for brain

elopment during pregnancy and infancy; = daily value 10% or higher is a good source an excellent source linked to cognitive function in childhood.

NDC

USDA FoodData Central online at <u>https://fdc.nol.udca.agv/</u>. Mean values calculated from database entries across all fat levels of plain vitamin D-fortified fluid milk in Legacy, Foundation, and Survey (FNDOS) data sources. The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for peneral nutrition advice © 2023 National Dairy Council" 💓 @NtlDairyCouncil 🜉 www.USDairy.com



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## Dairy Foods Provide a Powerful Nutrient Package

Milk's Unique Nutrient Package

Calcium lodine Riboflavin (B2) Vitamin B12 Protein Potassium\* Vitamin D Phosphorus Vitamin A Niacin (B3) Pantothenic Acid (B5) Selenium Zinc



\*FDA's Daily Value (DV) for potassium of 4700 mg is based on a 2005 DRI recommendation. In 2019, NASEM updated the DRI to 3400 mg. Based on the 2019 DRI, a serving of milk provides 10% of the DRI. FDA rule-making is needed to update this value for the purpose of food labeling.

Milk – Food Data Central: 1077 Greek Yogurt - Food Data Central: 171304 Cheddar Cheese - Food Data Central: 170899



Chewing Swallowing Cooking for one Osteopenia Osteoporosis Lactose Intolerance Memory Decline Fixed income Sarcopenia....

AGING VIBRANTLY What you need to know about dairy & bone health



#### Low dairy intake: significant public 0 health implications

Dairy consumption is critical across the life span, but particularly for older adults who consume less than half of the recommended 3 cups per day.<sup>2</sup> Advancing age is associated with an increased prevalence of chronic illness. including loss of muscle mass, fragility, and bone weakness. which amplify the risk of falls and fractures<sup>3</sup> and need for full-time institutionalized care.<sup>4</sup> In fact, millions of older adults (65 and above) - more than one in four - experience a fall each year.<sup>5</sup> These falls can result in broken hips which account for more than 300,000 hospitalizations among aging adults in the U.S., annually.

Preventing falls through nutrition has the potential to save thousands of dollars in healthcare costs and improve quality of life



A large randomized controlled trial by Luliano et al. showed that meeting dairy recommendations, by increasing calcium and protein intakes, decreased fall risk by 11% and fracture risk by 33% among older adults in assisted living facilities.

#### SCIENCE SAYS

When older adults increase their dairy intake to meet the recommended daily servings, it directly contributes to a reduction in falls and fractures.<sup>1</sup> Dairy products provide important nutrients, like calcium, vitamin D, and protein, that support bone health.

#### **Research suggests dairy** foods decrease fracture & fall risk

In a two-year, cluster-randomized controlled trial<sup>1</sup> published in The British Medical Journal, researchers examined the impact of consuming an additional 1.5 servings of dairy foods on fractures and falls among older Australian adults in 54 residential facilities.

While there was no group difference in all-cause mortality, the results of this study strengthen the available evidence on dairy and bone health. Providing residents with 1.5 additional servings of dairy foods in order to meet the recommendation is an effective and accessible intervention for assisted living facilities to reduce the risk of falls and fractures.

Dairy foods can provide creaminess tanginess, and sweetness to meals and snacks.

Delicious

#### Widely available & versatile

Dairy foods are plentifull Enjoy the many versatile products made from milk, like cheese, Greek vogurt, kefir, cottage cheese or pudding. Dairy food can be used as ingredients and flavorful toppings in a variety of dishes.

nutrients underconsumed by most Americans<sup>6</sup> For as little as \$0.60

Research shows that dairy foods

are affordable sources of calcium

potassium and vitamin D - two

a day, people can meet the daily

recommendations for dairy.

Affordable

Making small changes to include more dairy throughout the day can help Amp up your dairy for bone health you meet your dairy needs to enhance bone health and overall wellness

#### Berry Delicious Overnight Oats https://www.usdairy.com/recipes/berry-overnight-oats



What's to love about dairy A TRIFECTA

> 1/2 cup berries, frozen, unsweetened 1/3 cup oats, quick-cooking, dry

- 1. Combine all ingredients in a cup or jar Stir to mix thoroughly 2 Cover and refrigerate several hours. or overnight 3. Top each cup with 1 oz. of vanilla yogurt,
- 1 tablespoon of berries, or 1/2 an ounce of your favorite nuts

INSTRUCTIONS

Snack on some pudding Use low-fat milk to make pudding mix in flavorful fruit like berries.

ප්



#### Seek ways to add nutrition + flavo

Top toast with ricotta or cottage cheese and fresh fruit or veggies. Add whey 13 essential nutrients, including protein nowder to shakes mashed potatoes and soups. Sprinkle your favorite cheese on top of salads or grain bowls No problem! Lactose-free milks offer the same nutrients and hone supporting benefits as regular milk.

Æ

calcium and protein.

Lactose intolerant?

sins J, et al. Effect of dietary sources of calcium and protein on hip fractures and falls in older adults in residential care ntrolled trial. BMJ. 2021;375:n2364. Published 2021 Oct 20. riculture and U.S. Department of Health and Human Services. Dietary Guidelines for Americans, 2020-2025. 9th Edition. December

aryGuidelines.gov. Y, et al. The burden of disease in older people and implications for health policy and practice. Lancet. 2015;385(9967):549-56

Health and Welfare 2018. Hip fracture incidence and hospitalisations in Australia 2015–16. Cat. no. PHE 226. Canberra: AIHW

introl and Prevention. Important Facts about Falls. Updated Aug 2021. homeandrecreationalsafety/falls/adultfalls.html

rwal S, Fulgoni VI. 3rd. Comparing the cost of essential nutrients from different food sources in the American diet 114. Nutr J. 2019;18(1):68. Published 2019 Nov 9.

gallon milk price. Source: IRI Multi Outlet + Conv. 2020, YTD through 10/04/20



## Affordable, Available, Flexible, variety...



reduction in risk of fractures of any type



reduction in risk of falls relative to controls



Associat

VANILLA YOGURT PEARS SPINACH



#### **SUNSHINE** SMOOTHIE



VANILLA YOGURT MANDARIN ORANGES ORANGE JUICE

## SUNSHINE

INGREDIENTS	WEIGHT	MEASURE	
Canned Mandarin Oranges (in juice)	11 lbs 7 oz	5 qt	
Orange Juice	32 fl oz	1 qt	
Lowfat Vanilla Yogurt	12 lbs	6 qt	
Vanilla or Almond Extract	2 fl oz	34 c	1
MEAL COMPONENTS			
1/2 c Juice			
1 Meat/Meat Alternate			

Thoroughly chill all ingredients prior to Puree mandarin oranges (with liquid) and orange juice until smooth. preparation Do not add ice or water > Add yogurt and vanilla or almond extract For maximum yield, thoroughly scrape all containers and blender head Smoothies can be prepared and refrigerated up to 24 hours prior to service.

**BEST PRACTICES** 

> Cover and chill until ready for service. MAX YIELD: 48 9-oz servings ALLERGENS: Milk

Pour 9 oz of smoothie mixture into 10-oz

cups

and blend thoroughly.

Critical Control Points: Cool and hold smoothies at 41 'F or lower

Calories	163	Cholesterol	2.5 mg	<b>Dietary Fiber</b>	.06
Total Fat	19	Sodium	62 mg	Sugars	25 9
Saturated Fat	19	Carbohydrate	34 g	Protein	4.5

#### **APPLE PIE** SMOOTHIE

INGREDIENTS WEIGHT MEASURE Unsweetened Applesauce 9 lbs 4 qt Ground Cinnamon 1 oz Ground Nutmeg 0.25 oz Honey (or Brown Sugar) 8.5 oz Lowfat Vanilla Yogurt 12 lbs Unsweetened Apple Juice 100% 64 fl oz MEAL COMPONENTS % c Juice



preparation

Do not add ice or water

Thoroughly chill all ingredients prior to

For maximum yield, thoroughly scrape all containers and blender head.

1 Meat/Meat Alternate

DIRECTIONS > Blend applesauce, spices and honey (or

brown sugar). Add yogurt and apple juice and blend Pour 9 oz of smoothie mixture into 10-oz

 Smoothies can be prepared and refrigerated up to 24 hours prior to service MAX YIELD: 48 9-oz servings · Cover and chill until ready for service. ALLERGENS: Milk

Critical Control Points: Cool and hold smoothies at 41 'F or lower

Calories	168	Cholesterol	2.5 mg	Dietary Fiber	19
Total Fat	1g	Sodium	61 mg	Sugars	28 0
Saturated Fat		Carbohydrate	37 g	Protein	49



VANILLA YOGURT **APPLE SAUCE & JUICE HONEY & SPICES** 

PU	RPI	E	COW	
	SMC	DOTH	HIE	

MEASURE

preparation.

4 qt

2 qt

6 at

INGREDIENTS WEIGHT Frozen Unsweetened Blueberries 8 lbs Grape Juice 100% 64 fl oz Lowfat Strawberry Yogurt 12 lbs

> MEAL COMPONENTS 1/2 c Juice 1 Meat/Meat Alternate

DIRECTIONS > Puree blueberries until smooth. > Blend grape juice with blueberry puree. > Add yogurt and blend until smooth. Pour 8 oz of smoothie mixture into 9-oz > Cover and chill until ready for service.

MAX YIELD: 48 8-oz servings

ALLERGENS: Milk

Freeze "past-its-prime" fresh fruit to puree for use in smoothies Fruit is easiest to puree when semi-frozen. For maximum yield, thoroughly scrape all containers and blender head. Smoothies can be prepared and refrigerated up to 24 hours prior to

Thoroughly chill all ingredients prior to

BEST PRACTICES

> Do not add ice or water.

#### Critical Control Points: Cool and hold smoothies at 41 °F or lowe

Calories	154	Cholesterol	7 mg	<b>Dietary Fiber</b>	1g
Total Fat	19	Sodium	72 mg	Sugars	23 9
Saturated Fat	19	Carbohydrate	32 g	Protein	49

#### **PURPLE COW** SMOOTHIE



STRAWBERRY YOGURT BLUEBERRIES **GRAPE JUICE** 

#### **SMOOTHIES** FOR YOUR SCHOOL MEAL PROGRAM

#### SMOOTHIE EQUIPMENT GRANT

The American Dairy Association Mideast is offering a smoothie equipment grant, valued at \$1,020, for K-12 schools in Ohio and West Virginia to serve smoothies as part of their school meal programs

#### WHY SERVE SMOOTHIES?

Fruit and yogurt smoothies are equal parts nutritious and delicious, and are loved by students! They are a great way to use USDA required foods and can easily be served for breakfast, lunch or a la carte. Smoothies are also ideal for breakfast in the classroom or grab and go breakfast.

This smoothie equipment grant includes















#### Dairv Communications Toolkit

Useful resources for School Food Service Directors to share with students and parents.



West Virginia Farm to School Kit





#### Smoothie School Kit

Large-batch recipes that meet USDA meal requirements and complementary countertop signs.



DATS

MILK

Quick or Old Fashioned Rolled

#### Hot Chocolate Kit for Schools

Hot chocolate can be part of reimbursable meals, per USDA auidelines.





-> I VE 4 WHAT'S

MUREAL



## I hope you are outstanding in your field when you give your presentations!



Thank you! Sharon Maynard, RD, LD, FAND Sharon.Maynard@drink-milk.com 304 382 8553