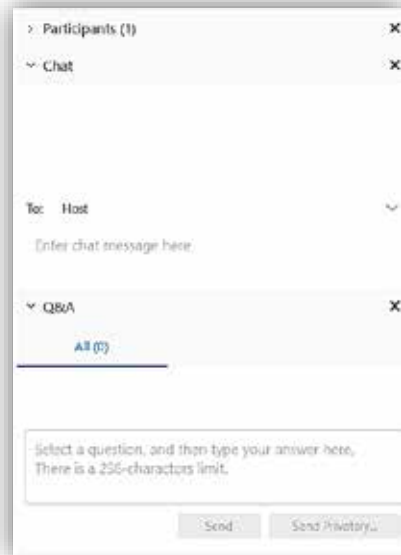


Orientation to the 2020 Version of ASA24



Using WebEx and Webinar Training Logistics



- § All lines will be in listen-only mode
- § Submit questions at any time during the presentation. Type into the Q&A Panel and select Host
- § A moderator will ask the question on your behalf during the Q&A portions of the training
- § This training webinar is being recorded and will be posted at a later date

Presenters:



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[This webinar is being recorded and will be available
for later viewing, along with answers to questions at
https://epi.grants.cancer.gov/asa24](https://epi.grants.cancer.gov/asa24)

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Outline for today's webinar

- § Overview of the Automated Self-Administered 24-hour Dietary Assessment Tool (ASA24)
- § Information about the new U.S. version: ASA24-2020
- § Information about upcoming enhancements
- § Common questions
- § Discussion and questions

What is ASA24?

- Fully automated, web-based, self-administered 24-hour dietary assessment tool
 - Web-based system for probing, coding, and calculation of intakes
- Developed by NCI and Westat
 - Format based on Automated Multiple-Pass Method (AMPM) interviewer-administered recalls collected in NHANES
- Publicly available at no cost to researchers, clinicians, and educators
- Allows collection of multiple recalls or records in large-scale nutrition research

Overview of the ASA24 System



ASA24 by the numbers

§ From June 2009 through August 2020

§ More than 7,300 studies registered

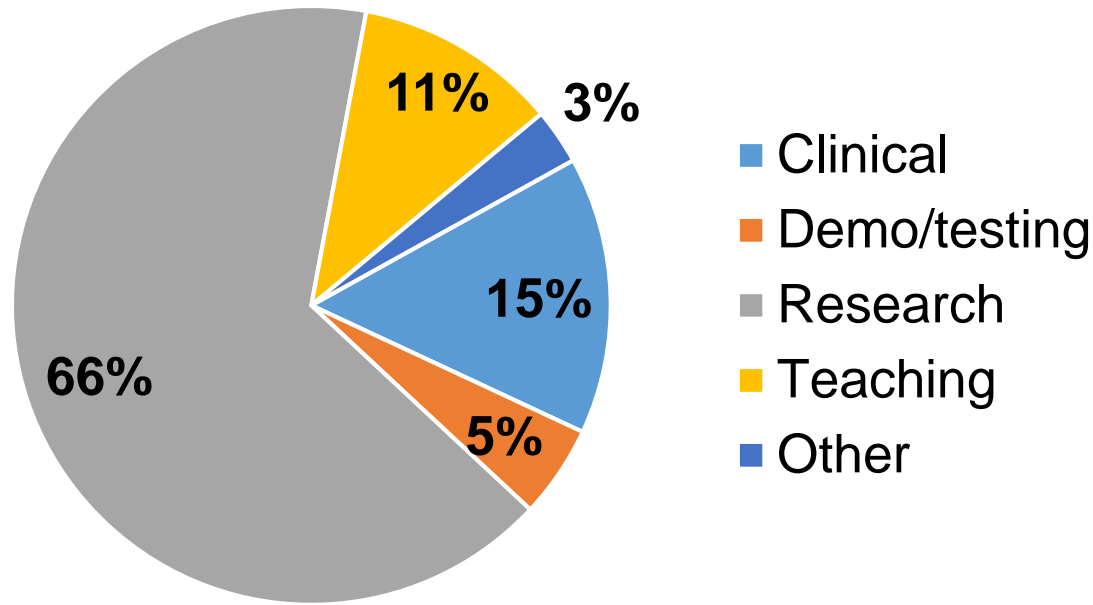
§ More than 572,000 recalls/record days collected



Usage by version

	ASA24-2016	ASA24-2018	ASA24-2020
Studies registered	2,917	1,814	385
Recalls/records collected	209,428	102,907	10,546
Studies registered per month	55	82	64

How ASA24 is being used?



Publications using ASA24:

<https://epi.grants.cancer.gov/asa24/resources/publications.html>

How long does it
take to complete a
24-hour recall?



*Information based on active versions of the ASA24 system

ASA24 contains many options and optional modules for research studies.



multiple vs. single logins



completion time restricted to 24 hours



supplements



midnight-to-midnight vs. past 24 hours



food source



electronic device use during meals



location of meals



with whom meals were eaten

New to ASA24-2020 (U.S. version only)

Updated foods and supplements to reflect these databases:

- Food and Nutrient Database for Dietary Studies (FNDDS) 2015-16
- Food Patterns Equivalents Database (FPED) 2015-16
- National Health and Nutrition Examination Survey (NHANES) Dietary Supplement Database (DSD) 2015-16

Features

- New Respondent Nutrition Report
- Improved search function



ASA24

Automated Self-Administered 24-Hour Dietary Assessment Tool

Respondent Nutrition Report

Caloric Intake By Meal



Day(s)

From: Dec 28, 2016 12:00:00 AM

To: Dec 28, 2016 11:59:59 PM

Daily Calories

Allowance	2,000
Eaten	1,967

Calories

Amount Eaten: 1,967 kcal





ASA24

Automated Self-Administered 24-Hour Dietary Assessment Tool

New to ASA24-2020: Revised Respondent Nutrition Report

Total Calorie Consumption



Calories

Most foods and many beverages contain calories. A person's calorie needs each day depends on factors such as age, gender, height, weight, and level of physical activity. In addition, a need to lose, maintain, or gain weight affects how many calories should be consumed. The target range for percent of calories from carbohydrates, protein, and fat listed here represent the range that is associated with providing adequate intakes of essential nutrients and a reduced risk of chronic disease.

Alcohol

Alcoholic beverage intake is not recommended in the *Dietary Guidelines for Americans*. If alcohol is consumed, it should be in moderation—up to one drink per day for women and up to two drinks per day for men—and only by adults of legal drinking age. There are also many circumstances in which individuals should not drink, such as during pregnancy.

Sources

2015 -2020 Dietary Guidelines for Americans (<https://health.gov/dietaryguidelines/2015/guidelines/>) and Dietary Reference Intakes (<http://www.nationalacademies.org/hmd/Reports/2002/Dietary-Reference-Intakes-for-Energy-Carbohydrate-Fiber-Fat-Fatty-Acids-Cholesterol-Protein-and-Amino-Acids.aspx>).



ASA24

Automated Self-Administered 24-Hour Dietary Assessment Tool

“It is very informative and the colors and graphs make it easy to identify the important information.”

“I like that it had the little extension that tells me that I am over.”

Total Calorie Consumption



Calories

Most foods and many beverages contain calories. A person's calorie needs each day depends on factors such as age, gender, height, weight, and level of physical activity. In addition, a need to lose, maintain, or gain weight affects how many calories should be consumed. The target range for percent of calories from carbohydrates, protein, and fat listed here represent the range that is associated with providing adequate intakes of essential nutrients and a reduced risk of chronic disease.

Alcohol

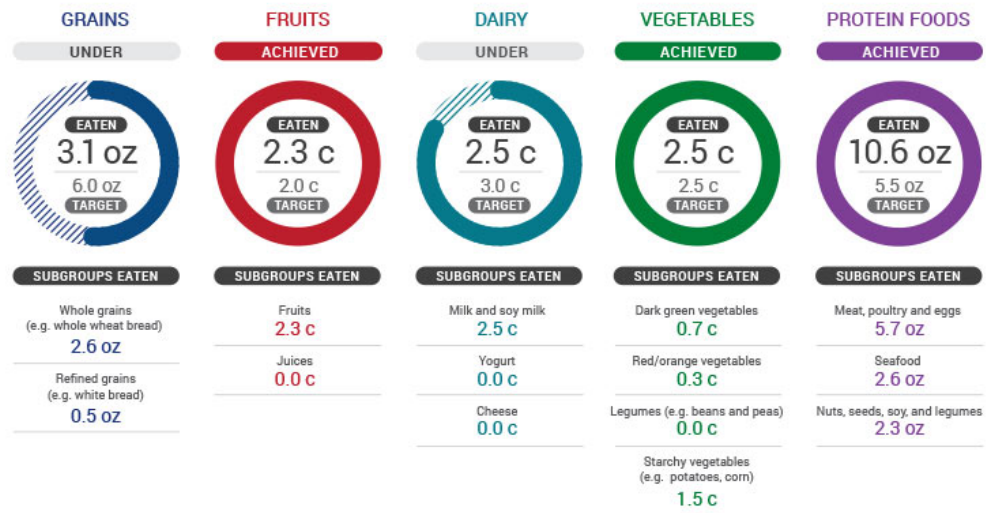
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2015–2020 Dietary Guidelines for Americans (<https://health.gov/dietaryguidelines/2015/guidelines/>) and Dietary Reference Intakes (<http://www.nationalacademies.org/hmd/Reports/2002/Dietary-Reference-Intakes-for-Energy-Carbohydrate-Fiber-Fat-Fatty-Acids-Cholesterol-Protein-and-Amino-Acids.aspx>).

Daily Food Group Targets

c = cups oz = ounces



Portion sizes for foods within a food group varies. To learn more about portion sizes, visit <https://health.gov/dietaryguidelines/2015/guidelines/infographic/1-1/>.

To achieve a healthy eating pattern, the *Dietary Guidelines for Americans* encourage you to:

- Make half your grains whole grains. Limit products made with refined grains, especially those high in fat, sugars, and/or sodium, such as cookies, cakes, and some snack foods.
- Eat a variety of fruits, emphasizing whole fruits. When consuming juice, choose 100% juices without added sugars.
- Eat a variety of colors and types of vegetables, including dark green, red and orange, and legumes (beans and peas).
- Choose fat-free or low-fat dairy, including milk, yogurt, cheese, and/or fortified soy beverages.
- Eat a variety of protein foods, with an emphasis on seafood and plant proteins, such as legumes (beans and peas), nuts, seeds, and soy products.

“I think it is good. It is not overwhelming. The text at the bottom is really good. It advises me on what are some good eating habits.”



“It is organized the way it is supposed to be. I like it. It is very clear what it is trying to tell me.”

Nutrients and Foods to Limit

Added Sugars (g)

EATEN
166 g
LIMIT
50 g



Saturated Fats (g)

EATEN
21 g
LIMIT
22 g



Alcohol (drinks)

CONSUMED
1 drink
LIMIT
1 drink



Sodium (mg)

EATEN
2,982 mg
LIMIT
2,300 mg



Many of the foods and beverages we eat contain sodium, saturated fats, and added sugars (sweeteners added to foods/beverages during processing or by consumers). Making careful choices keeps amounts of these components within their limits while meeting nutrient needs to achieve a healthy eating pattern.

Source: <https://health.gov/dietaryguidelines/2015/guidelines/chapter-1/a-closer-look-inside-healthy-eating-patterns/#food-groups>

Enhanced Search Tool

- § Improved food list matching
- § Improved multi-food match, e.g. carrots and peas
- § Refine the popularity scoring within search algorithm



+ Report Meals and Snacks



Find Food and Drinks



Add D

Find Foods & Drinks

🕒 Breakfast, Tuesday, March 24th

2018
Search

Search: ?

Cheese

Search

Filter your results: ?

Baby foods & Beverages:

☐ Baby food (6)

Breads, Cereals, Bakery products & Salty snacks:

☐ Bread, Muffin, Roll, Tortilla (4)

☐ Cake, Cookie, Pie (2)

☐ Cereal, Hot cereal, Grits (1)

☐ Cracker, Chip, Popcorn (19)

Condiments & Sauces:

☐ Salad dressing (1)

☐ Sauce, Salsa (1)

☐ Spread, Dip (5)

Dairy Products :

219 Results:

[Add a recipe »](#)

[Cheeseburger on bread or bun](#)

[Cheese \(unknown kind\)](#)

[Cheese bread](#)

[Cheese sauce](#)

[Cheese crackers](#)

[Cheese spread](#)

[Cheese \(other kind\)](#)

[Cheese and tomato sandwich](#)

[Cheese ball puffs](#)

[Cheese Cannelloni with tomato sauce \(diet frozen meal\)](#)

[Cheese cracker sticks](#)

[Cheese curls](#)

[Cheese dip or Fondue](#)

[Cheese enchilada \(frozen meal\)](#)

[Cheese filled Combos](#)



+ Report Meals and Snacks



Find Food and Drinks



Add D

Find Foods & Drinks

🕒 Breakfast, Tuesday, March 24th

2020
Search

Search: ?

Cheese

Search

Filter your results: ?

Dairy Products :

☐ Cheese (62)

Pasta, Rice & Grains:

☐ Pasta, Noodles - with sauce (2)

☐ Rice (2)

☐ Pasta, Noodles - plain (1)

Main dishes & Entrees:

☐ Sandwich (59)

☐ Soup, Stew, Chili (4)

☐ Main dish, Entrée, Frozen meal (33)

Meat, Poultry, Fish, Eggs & Nuts:

215 Results:

[Add a recipe »](#)

[Cheddar cheese](#)

[Macaroni and cheese](#)

[Cream cheese](#)

[Cheese \(other kind\)](#)

[Parmesan cheese](#)

[Mozzarella cheese](#)

[Cheese sticks](#)

[Cottage cheese](#)

[String cheese](#)

[American cheese](#)

[Cheese \(unknown kind\)](#)

[Feta cheese](#)

[Swiss cheese](#)

[Velveeta](#)

[Cheese sandwich](#)



Report Meals and Snacks



Find Food and Drinks



Add D

Find Foods & Drinks

🕒 Breakfast, Tuesday, March 24th

2018
Search

Search: ?

Salad

Search

Filter your results: ?

Condiments & Sauces:

☐ Salad dressing (2)

Fast Food:

☐ Burger King (3)

☐ Hardee's (1)

☐ McDonald's (3)

☐ Taco Bell (1)

☐ Wendy's (2)

Fruit:

☐ Fruit (1)

☐ Mixed fruit, Fruit salad (11)

Main dishes & Entrees:

93 Results:

[Add a recipe »](#)

Salad dressing (unknown kind)

Coleslaw

Fruit cocktail

Garden salad

Caesar Salad

Mixed greens salad

Tuna salad sandwich

3-bean salad

Apple salad

Apple salad (with nuts)

Artichoke salad

Bagged salad mix

Bean salad

Beef salad (without greens)

Beet salad



Report Meals and Snacks



Find Food and Drinks



Add D

Find Foods & Drinks

🕒 Breakfast, Tuesday, March 24th

2020
Search

Search: ?

Salad

Search

Filter your results: ?

Vegetables, Beans & Salad:

☐ Vegetable/Bean salad (57)

☐ Vegetable (2)

☐ Bean, Pea, Legume (1)

Fruit:

☐ Mixed fruit, Fruit salad (9)

☐ Fruit (1)

Pasta, Rice & Grains:

☐ Pasta, Noodles, Macaroni (1)

☐ Pasta, Noodles - with sauce (2)

Main dishes & Entrees:

127 Results:

[Add a recipe »](#)

Lettuce salad

Garden salad

Caesar Salad

Potato salad (not German style)

Mixed greens salad

Fruit salad

Spinach salad

Greek salad (with greens)

Green salad

Mixed salad greens

Pasta salad

Tossed salad

Taco salad

Salad dressing (unknown kind)

Side salad



Report Meals and Snacks



Find Food and Drinks



Add D

Find Foods & Drinks

Breakfast, Sunday, August 30th

2018
Search

Search:

rice and peas

Search

Filter your results:

Baby foods & Beverages:

☐ Baby food (43)

Beverages:

☐ Alcoholic drink (8)

☐ Juice (2)

☐ Milk (2)

Breads, Cereals, Bakery products & Salty snacks:

☐ Bread, Muffin, Roll, Tortilla (2)

☐ Cake, Cookie, Pie (6)

☐ Cereal, Hot cereal, Grits (14)

☐ Cracker, Chip, Popcorn (2)

☐ Pancake, Waffle, Crepe (2)

351 Results:

[Add a recipe »](#)

[Arroz blanco](#)

[Arroz \(other kind\)](#)

[Arroz quisado](#)

[Rice pilaf](#)

[Basmati rice](#)

[Mexican rice](#)

[Indian rice](#)

[Fried rice](#)

[Sticky rice](#)

[Spanish rice](#)

[Rice dressing](#)

[Chicken and rice](#)

[Brown and wild rice](#)

[Rice and beans soup](#)

[Wild rice](#)



Report Meals and Snacks



Find Food and Drinks



Add D

Find Foods & Drinks

Lunch, Sunday, August 30th

2020
Search

Search:

rice and peas

Search

Filter your results:

Pasta, Rice & Grains:

☐ Rice (44)

☐ Pasta, Noodles - plain (1)

Fruit:

☐ Fruit (3)

Vegetables, Beans & Salad:

☐ Bean, Pea, Legume (23)

☐ Vegetable (6)

☐ Vegetable/Bean salad (2)

Main dishes & Entrees:

☐ Main dish, Entrée, Frozen meal (20)

149 Results:

[Add a recipe »](#)

[Rice with peas](#)

[Pear](#)

[Yellow rice](#)

[White rice](#)

[Green peas](#)

[Brown rice](#)

[Rice \(other kind\)](#)

[Rice \(unknown kind\)](#)

[Fried rice](#)

[Peas \(other kind\)](#)

[Peas \(unknown kind\)](#)

[Sugar peas](#)

[Chicken and rice](#)

[Jasmine rice](#)

[Peas and carrots](#)

What is next for ASA24?

- § Migration to the cloud
- § New module that will collect time of waking and sleeping
- § New tool to add foods, beverages & supplements to ASA24
- § Redesign of the researcher website

Researcher website redesign

§ Goals

- § Visual refresh / make the site feel clean & modern
- § Improve overall user experience
- § Improve navigation
 - § Make things easier to find
 - § Enable further expansion
- § “Unbury” the rich help information

Hi Sandra!

Your studies:

Sort by: Recent activity ▼

ASA24-2020 US Test Recall Study
Active

STUDY DETAILS		PARTICIPANT DETAILS	
Study Start 12/31/2019 – 3/31/2020	Study End 	144	Participation Rate:
Recall Study ASA24-2020		Completes 24	Quits 19
Study Type: Scheduled Goal: 5 recalls / person		Not Started 120	<i>Other meta data here</i>

Next-Gen Cancer X-Factor
Upcoming

STUDY DETAILS		PARTICIPANT DETAILS	
Study Start 2/25/2020 – 4/25/2020	Study End 	28	Participation Rate:
Record Study		Completes 	Quits
		Not Started 28	

Resources & Help



[Create a new study](#)



[What's new with ASA24](#)

[Frequently Asked Questions \(FAQs\)](#)

[Known Issues and Workarounds](#)

[Report a bug](#)



[Join ASA24 Listserv](#)



[ASA24 Demonstration Site](#)

[Information for Funding & Ethics Application](#)

[Reviewing & Cleaning ASA24 Data](#)

[Sample Analysis Files and Data Dictionaries](#)

[Resources Related to the Healthy Eating Index \(HEI\)](#)



[ASA24 Instructions for Study Staff & Respondents](#)

[Researcher Instructions – 2018](#)

[Researcher Instructions – 2016](#)

Create a New Study – Step 1

1 — 2 — 3 — 4

Study name:

80 characters remaining

The Study Name is to help identify the study and distinguish it from other studies you've created or are part of.

Used for you and your colleagues; not seen by respondents.

🔒 This property can be changed later

Study description:

400 characters remaining

Briefly describe the study.

Used for you and your colleagues; not seen by respondents.

🔒 This property can be changed later

Study abbreviation:

(3-8 letters, no numbers)

The Study Abbreviation is included in the ASA24 usernames for your respondents. For this reason, it is a good idea to use an abbreviation that will be meaningful to your Respondents.

For example, if a study abbreviation is FRUIT, a sample subject ID may be FRUIT101 or FRUIT1001.

🔒 Cannot be changed after study is created

Researcher affiliation
using ASA24:

- ☐ Research
- ☐ Teaching
- ☐ Clinical practice
- ☐ Demonstration or testing
- ☐ Other (please specify)

Why are you creating this study?

Collected for internal use only and does not affect study administration.

🔒 This property can be changed later



Specify Study Details – Step 2

1 ————— 2 ————— 3 ————— 4

Study Tool:

In this step you control how your study is run. If you're not sure what to choose, start with a suggested study configuration. You can then customize it to suit your needs.



Suggested Study Configurations...

Suggested Study Configurations

X



Select a study configuration to get started. You can then customize the Study Tool settings to meet your research needs.



Scheduled Recall Study A. A short sentence or two describing this configuration and why you'd want to use it.



Scheduled Recall Study B. A short sentence or two describing this configuration. A short sentence or two describing this configuration and why you'd want to use it



Unscheduled Recall Study. A short sentence or two describing this configuration. A short sentence or two describing this configuration and why you'd want to use it.



Record Study A. A short sentence or two describing this configuration. A short sentence or two describing this configuration and why you'd want to use it.



Record Study B. A short sentence or two describing this configuration. A short sentence or two describing this configuration and why you'd want to use it.



Related: View [Diet Primer](#) in a new window

Cancel

Apply Configuration

ASA24 version:

 Number of
 respondents:

Study start date:

Study end date:



ASA24-2020 US Test Recall Study ▼



Record



10/15/2020 – 12/15/2020

Active ●

Study Activity



Respondents



Data & Results



Edit Study



Help & Resources

Track Respondents

Track Records

Track Respondents

Filter by user name:

Filter

Clear Filters

[Select All](#) [Deselect All](#) | [Export Selected](#) [Export All](#)

Select	Username ▼	Completed Records	Records Remaining
<input type="checkbox"/>	Organic151	0	4
<input type="checkbox"/>	Organic152	0	4
<input type="checkbox"/>	Organic153	0	4
<input type="checkbox"/>	Organic154	0	4
<input type="checkbox"/>	Organic155	0	4
<input type="checkbox"/>	Organic156	0	4
<input type="checkbox"/>	Organic157	0	4

Show number of respondents: 25 ▼

[Previous](#) [1](#) [2](#) [3](#) [Last](#)



Organic Food Intake



Recall



10/15/2020 – 12/15/2020

Active ●

[Study Activity](#)



[Respondents](#)



[Data & Results](#)



[Edit Study](#)



[Help & Resources](#)

[Edit Study Basics](#)

[Edit Study Details](#)

[Edit Study Modules](#)

[Manage Study Staff](#)

[Delete Study](#)

Edit Study Modules

Check modules to enable/disable them in your study.



Location

The Location Module asks the Respondent where they ate each meal or snack. The choices are:

- Home
- Fast food Restaurant
- Other Restaurant

[See more...](#)

This property can be changed later



Ate With Others

The Ate With Module asks the Respondent if anyone was present at each meal and snack, and if so, was it a family member or someone else.

This property can be changed later



Source

The Source Module asks a question about the source of each food and drink consumed. The choices are:

- Supermarket or grocery store
- Convenience store
- Other store (any type)

[See more...](#)

This property can be changed later

Troubleshooting

- Check Researcher Instructions or Researcher Website
<https://epi.grants.cancer.gov/asa24/researcher/instructions.html>
- Visit NCI Website (<http://epi.grants.cancer.gov/asa24/>), including:
 - Frequently Asked Questions
<https://epi.grants.cancer.gov/asa24/resources/faq.html>
 - Known Issues & Workarounds
<https://epi.grants.cancer.gov/asa24/resources/issues.html>

Getting Help

- Contact the ASA24 Helpdesk:
 - Report a bug: <https://epi.grants.cancer.gov/asa24/support/report.html>
 - Request help: <https://epi.grants.cancer.gov/asa24/support/contact.html>
 - Send an email to: ASA24Helpdesk@westat.com
- Send message to ASA24 Listserv
 - Subscribe at <https://list.nih.gov/cgi-bin/wa.exe?A0=ASA24-L>

Common questions



Why isn't ASA24 available in more languages?

- § ASA24 is available in English and Spanish in the U.S. version
- § Available in English and French in the Canadian version
- § ASA24 could be translated to other languages
 - § Requires some additional funding
 - § If interested in translation or other adaptations contact ASA24 Helpdesk or Kirsten Herrick

How can ASA24 best be adapted to ask mothers to recall the feeding of infants (birth to 12 months)?

§ ASA24 can be used to collect:

- § Time and quantity of expressed breastmilk, formula, and complementary foods
- § Time of direct breast feeding (nutrient content and volume of breastmilk is problematic)

§ Potential challenges with ASA24

- § Very small portion sizes
- § Pureed table foods

§ **Advice**

- § Pilot test ASA24 with your population
- § Consider using questionnaires to supplement data collection

Currently, we do not have any plans to develop a version of ASA24 to meet the unique needs to this population.

How are dietary supplements handled?

- § Supplements are entered in ASA24 just like foods. Respondents are asked to report amount in doses.
- § Respondents can search for them and add them to any meal.
- § Respondents can also enter a meal that is called “just a supplement”.

How is composition updated?

- § Supplement data in ASA24-2020 is from NHANES Dietary Supplement Database 2015-16.
- § Each version of ASA24 uses the most up to date version of the NHANES Dietary Supplement Database.

When will ASA24 be compatible with NDSR?

- § ASA24 is based on federally funded and maintained databases that are free for use
- § NDSR is based on a proprietary databases that charge a fee for use
- § The analytic files that ASA24 generate, provide nutrient values at the food level
 - § This would result in the release of NDSR proprietary information
- § Another dietary assessment tool – Diet History Questionnaire (DHQ) includes NDSR nutrient values

How many study participants can access ASA24 simultaneously?

- § ASA24 can support 300 simultaneous users
- § Migration to the cloud should increase this number
- § If you have a large study and anticipate heavy traffic, we advise staggering the days you have respondents using the system

Is there any way to calculate individual Healthy Eating Index (HEI) score with ASA24?

§ YES!

§ Person level

§ Across multiple days

§ Each day

§ Group level

§ One day on everyone: Population ratio method

§ Multiple days on everyone: Markov Chain Monte Carlo method (MCMC)

§ Best to have a statistician on board

§ <https://epi.grants.cancer.gov/asa24/resources/hei.html>

Can ASA24 be adapted for other countries or ethnic groups?

- § Yes! Canadian and Australian versions already exist
- § Adaptations have access to ASA24 infrastructure and updates
- § System is designed to make adaptations possible
 - § Translation alone – easiest modification
- § Other modifications involving modification of probes, foods, supplements, nutrient and food group databases – more complex
 - § Require significant additional funding
 - § In-kind funding

Questions?





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