## Health Care 🔀 Food

#### **Common Measures for AHA Health Care x Food Funded Studies**

Intended Audience\*: Funded Studies through the American Heart Association's Health Care x Food initiative.

**Goal of these measures\*:** To enable comparing results across studies that are funded through the American Heart Association's Health Care x Food initiative, by encouraging a shared set of measures that facilitate comparison between studies and support of equity frameworks. We also encourage FIM researchers more widely to consider the use of these measures.

#### Definition of Categorization:

- Core measures are **required** by all study teams, with the use of the specified measurement tool\*
- Preferred measures are not required, but if the dimension is measured, we request that it is done using the specified measurement tool\*
- Optional measures are for consideration by your team, with the specified measures **optional** for your use. \*Unless a rationale is provided.

#### Overview of Common Measures (details on following pages):

Core Measures	Preferred Measures	Optional Measures
Intervention Characteristics	Additional Sociodemographic	Household Resilience
including cost		
Satisfaction	Fidelity and Acceptability	Employment
Engagement	Deprivation	Engagement (Additional
		Measures)
Sociodemographic	Biomarkers	Food Insecurity – Children
Food Insecurity	Health Care Utilization	Clinical Satisfaction
Financial Strain	Social Isolation and Loneliness	
General Health Status	Co-Morbidities	
Nutrition Security		
Diet Quality		

### CORE MEASURES: Required for all teams to collect using specified measurement tool

Dimension	Measurement Tool and/or Elements	Time Point	Collection Method
	to be collected	Collected	
Intervention Characteristics	<ul> <li>Type of FIM program</li> <li>Study setting/locations, target population and eligibility (inclusion/exclusion)</li> <li>Recruitment method, target number of participants</li> <li>Study timeframe, duration and follow up period (if any)</li> <li>Intervention methods (during active intervention and post-intervention if any) and randomization schema</li> <li>primary and secondary outcomes with main hypothesis</li> <li>Details of Intervention that is provided to participants         <ul> <li>Food Provision Details:                 <ul> <li>Dose</li> <li>Duration</li> <li>Frequency</li> <li>Delivery or Pick Up</li> <li>Timing</li> <li>Food provided, including nutrition information.</li> <li>Food provided, including nutrition</li> <li>Food provided, including nutrition</li> <li>Total provided, including nutrition</li> <li>Food provided, including nutrition</li> <li>Total provided provided, including nutrition</li> <li>Total provided provi</li></ul></li></ul></li></ul>	Baseline, and please document any deviations at the end of the intervention	To be completed by study staff, not participants

	<ul> <li>Ancillary offerings (including but not limited to training and education)</li> <li>Communication Details (frequency, type, mode)</li> <li>Technical Assistance availability</li> <li>Nutrition Education Components (access, type, frequency of availability, credentials of provider)</li> <li>Projected study cost break- down (recruitment, food cost, delivery, education, measurement, incentives etc.)</li> <li>Refer to cost effectiveness analysis guidelines provided as an appendix</li> </ul>		
Satisfaction	Net Promoter Score"How likely is it that you would recommend [insert intervention] to a friend or colleague?"Scored via 0-10 Likert Scale subtracting % who rate program at 6 or below from those who rate the	Post-Intervention	Patient Self Report
Engagement	<ul> <li>program with a 9 or a 10.</li> <li>Number Screened</li> <li>Number Contacted</li> </ul>	Post-Intervention	*Collected and calculated by study staff; please be transparent

	<ul> <li>Number that completed IRB consent and randomized into intervention</li> <li>Number that received intervention</li> <li>Number that withdrew and discontinued intervention</li> <li>Number that did not withdraw but stopped engaging (lost to follow up)</li> <li>Number that had the completed main outcome measures of intervention</li> <li>Redemption Rate (for produce prescriptions, e.g., number of meals or prescriptions redeemed out of total available) for all components of intervention</li> <li>Adherence Rate (e.g., shared medical appointments, nutritional counseling, coaching etc.) for all components of intervention</li> </ul>		in the collection and calculation methods. Redemption rate and adherence rate refer to all components of an intervention and may be reported out separately (e.g. x% redeemed at least one voucher and y% attended all of the group education classes).
Sociodemographics	Collect from electronic health record as feasible, with exception of Race/Ethnicity, which should be collected via self-report. If there is no access to an EHR, items should be collected via self-report. For wording for Sociodemographics Questions see <u>GusNIP List of Participant-level core</u> <u>metrics page 9</u>	Baseline	Collect from EHR (with exception of race/ethnicity) if possible to minimize respondent burden. If not possible, use self-report.

	<ul> <li>Age (Specific age at enrollment)</li> <li>Gender (Male / Female / Female to Male (FTM), Transgender Male, Trans Man / Male to Female (MTF), Transgender Female, Trans Woman / Genderqueer, neither exclusively male nor female / Additional gender category or other. / Did not disclose)</li> <li>Sex (Male / Female / Unknown)</li> <li>What is your race and/or ethnicity? Select all that apply. (American Indian or Alaska Native; Asian; Black or African American; Hispanic or Latino; Middle Eastern or North African; Native Hawaiian or Pacific Islander; White)</li> <li>Insurance Type</li> <li>Household Size</li> </ul>	Baseline post-	Potient self report
Food Insecurity	<ul> <li>USDA FSSM 6-Item</li> <li>All teams should use versions with a 30-day lookback period.</li> </ul>	Baseline, post- intervention	Patient self-report
	<b>OPTIONAL ENHANCEMENT:</b> Note that teams may choose to use the		
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	as well, at the same link. These longer forms include the 6 item in the core measure.		
Financial Strain	<ul> <li>Food Assistance enrollment (SNAP / WIC) in last 30 days</li> <li>For food assistance use recommend asking "Have you received federal food assistance through either SNAP or WIC in the past 30 days"</li> </ul>	Baseline, post- intervention	Patient self-report
	<ul> <li>Financial Strain</li> <li>For Financial Strain, recommend using: How often does this describe you? I don't have money to pay my bills (including food, housing, medical care or heating). Never / Rarely / Sometimes / Often / Always</li> </ul>		
General Health Status	<ul> <li>Single General Health Status Question: Would you say that in general your health is excellent, very good, good, fair, or poor?</li> <li>OPTIONAL ENHANCEMENT, EQ-5D- 5L is an optional measure that is often used in cost-effectiveness analyses.</li> </ul>	Baseline, post- intervention	Patient self-report

Nutrition Security	One-Item Gretchen Swanson	Baseline, post-	Patient self-report
	Nutrition Screener	intervention	
Diet Quality	We welcome the use of any	Baseline, Post-	Patient self-report
	measurement tool that can	Intervention,	
	convert to cup-equivalents	Optional at points	
	per day.	mid-intervention	
	• For the core measure, we ask		
	that at a minimum, studies		
	collect fruit and vegetable		
	intake (for instance, <u>10-Item</u>		
	DSQ). Please note that the		
	self-report version of this tool		
	should be used.		
	PREFERRED ENHANCEMENT: For		
	those who are well-positioned to		
	collect additional information, DSQ-		
	26 or multiple 24 Hour Recalls are		
	well-validated tools.		

# PREFERRED MEASURES: These dimensions are <u>NOT</u> required; but if you collect these dimensions, we ask that you use the specified measurement tool

Dimension	Measurement Tool and/or Elements to be collected	Time Point Collected	Collection Method
Additional Sociodemographic	<ul> <li>Annual Household Income</li> <li>Ranges:         <ul> <li>Less than \$10,000</li> <li>\$10,000 - \$24,999</li> <li>\$25,000 - \$34,999</li> <li>\$35,000 - \$49,999</li> <li>\$50,000 - \$74,999</li> <li>\$75,000 - \$99,999</li> <li>\$100,000 - \$149,999</li> <li>\$150,000 - \$199,999</li> <li>\$200,000 or more</li> <li>Prefer not to answer</li> </ul> </li> </ul>	Baseline	Collect from EHR as feasible; self-report otherwise.
Fidelity and Acceptability	<ul> <li>Acceptability of Intervention</li> <li>Intervention Appropriateness</li> <li>Feasibility of Intervention</li> </ul>	Post-Intervention	Questions asked to clinicians, non-patient stakeholders or patient participants depending on intervention and study focus.
Deprivation	Use Exact Address either from EHR or self-report to generate a 9-digit zip code that can be attached to a Social Vulnerability Index / Area Deprivation Index	Baseline	EHR or patient self-report
Biomarkers	Biomarker measurement is recommended, but the specific biomarker will be dependent on the population.	Baseline, post-intervention; optional for during intervention	Biomarkers should be collected by a health professional and/or from an EHR system, and not based on recall or self-report.

	For example: • DM - HbA1c; • HTN - SBP and DBP		
Health Care Utilization	<ul> <li>Appropriate measures depend on the study objectives.</li> <li>Examples include: <ul> <li>Acute care visits</li> <li>Hospitalization days</li> <li>ER visits</li> <li>No-show rates (if there is an accepted algorithm within the health system to calculate this)</li> </ul> </li> <li>An alternative single-item satisfaction measure could be from the National Cancer Institute <ul> <li>Health Information National Trends</li> <li>Survey (HINTS): "During the past 12 months, not counting times you went to an emergency room, how many times did you go to a doctor, nurse, or other health professional to get care for yourself?"</li> </ul></li></ul>	Baseline, post-intervention	Derived from EHR or health claims; with alternative self- report question option as needed. NOTE: We have made this a preferred and not required measure for this stage of AHA HCXF. In the future as our study objectives evolve to focus more on influencing health care utilization this will likely become a core measure.
Social Isolation or Loneliness	De Jong Gierveld Loneliness Scale	Baseline, post-intervention; optional during intervention	Patient Self Report

Co-Morbidities	ICD10 Codes If self-report is used, the relevant questions from <u>National Health</u> <u>Interview Surveys</u> is acceptable.	Baseline	Preference is for these to be collected via ICD10 codes pulling from EHR. Options for patient self-report provided as needed.
	For self-reported data, conditions should be converted to the corresponding ICD-10 codes for reporting.		

## **OPTIONAL MEASURES:** These are for consideration.

Dimension	Measurement Tool Identified	Suggested Time Points	Collection Method
Household Resilience	<ul> <li>\$400 Question: "Suppose that you have an emergency room expense that costs \$400. Based on your current financial situation, how would you pay for this expense? (If you would use more than one method to cover, please check all that apply)</li> <li>Put on my credit card and pay it off in full at the next statement.</li> <li>Put it on my credit card and pay it off over time.</li> <li>With the money currently in my checking/saving account or with cash</li> <li>Using money from a bank loan or line of credit</li> <li>By borrowing from a friend or family member</li> <li>Using a payday loan, deposit advance, or overdraft</li> <li>By selling something</li> <li>I wouldn't be able to pay for the expense right now.</li> <li>Prefer not to say.</li> <li>Other, Specify:</li> </ul>	Baseline, post- intervention	Patient self-report
Additional Sociodemographic	<ul> <li>Employment Status         <ul> <li>Employed for wages (part-time or full-time)</li> <li>Self-employed</li> <li>Out of work for 1 year or more</li> <li>Out of work for less than 1 year</li> <li>A homemaker</li> <li>A student</li> <li>Retired</li> <li>Unable to work (disabled)</li> <li>Prefer not to answer</li> </ul> </li> </ul>	Baseline	Patient self-report

Engagement	<ul> <li>If you had to pay for this program [insert name] would you choose to participate?</li> <li>Of the provided food, how much was consumed?</li> </ul>	Post-intervention: optional during intervention as needed for consumption data	Patient self-report
Food Insecurity - Children	Self-Administered Food Security Survey Module for Youth Ages 12 and Older All teams should use versions that ask for a 30-day lookback period.	Baseline, post- intervention	Patient self-report
Clinical Impact and Satisfaction	<ul> <li>We recommend using a HEDIS measure that is appropriately aligned with your population and/or context.</li> <li>HEDIS Measures and Technical Resources - NCQA</li> <li>Examples Include, but are not limited to:         <ul> <li>For pregnant population: Postpartum Care (% of deliveries in which women had a postpartum visit on or between 7 and 84 days after delivery.</li> <li>For those who might provide an intervention to people at time of discharge from a skilled nursing facility: Hospitalization following discharge from a skilled nursing facility.</li> </ul> </li> <li>An alternative single-item satisfaction measure could be from the National Cancer Institute Health Information National Trends Survey (HINTS): "Overall, how would you rate the quality of health care you received in the past 12 months?"</li> </ul>	Post-Intervention	Health care organizations; option for single- item patient self- report question NOTE: this is listed as an optional measure for now but as the stages of HCXF evolve may become a preferred or core measure.

## APPENDIX 1: Change Control Table

Date of Change	Location of Change	Description of Change
Version 1.1		
12/17/2024	Page 13 – Appendix 1	Added a change control table to document changes going forward
12/17/2024	Header/Footer	Changed from version number to 1.1 and removed "Beta" (header/footer); added last updated date and page numbers (footer)
12/17/2024	Overview table (pg 1), Core measures table (pg7), and Preferred measures table (pg 9).	Based on a unanimous vote from the Health Equity and Common Measures Task Force on December 13, 2024, the Nutrition Security was removed from the Preferred Measures list to the Core Measures list. This change is reflected in the three respective tables.
Version 1.11		
01/03/2025	Core Measures Table: General Health Status Dimension, page 6 Preferred Measures Table: Fidelity and Acceptability Dimension, Deprivation Dimension, page 8; and Co-Morbidities Dimension, page 10	Reviewed all links in the document. Four links were no longer valid/found. All four of these links were updated.
01/03/2025	Header/Footer	Changed from version number to 1.11 to reflect the relatively minor update to the document (header/footer); changed last updated date (footer)