

Empowering Future Physicians and Communities in Chicago

Learnings from 4 Culinary Medicine Initiatives

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- The ICIMH conference resides on the indigenous lands of the Erie and Seneca people.
- For millennia they occupied, traversed, lived from, and cared for land and waterways in Ohio—from Ohi:yó, an Onöndowa'ga:' (Seneca) term meaning "beautiful river."
- By making a land acknowledgment, we recognize that Indigenous peoples are the traditional stewards of the land that we now occupy, living here long before Cleveland was a city and still thriving here today.
- As we work, live and play on these territories we must ask what we can do to right the historic wrongs of colonization and state violence, and support Indigenous communities' struggles for self-determination and sovereignty.

Objectives











- 1. Discuss the culinary medicine model both in medical and community education and the challenges to conducting research in these settings
- 2. Discuss and understand decolonized and culturally sensitive and relevant methods to approach culinary medicine interventions that respect diverse food traditions and cultures
- 3. Define food apartheid, food insecurity and understand the impact of these challenges and importance of addressing them when developing and implementing food as medicine programming
- 4. To learn about successful curricula and projects in Chicagoland and action steps to create culinary medicine programs

Culinary Medicine: The art of cooking meets nutritional science





Background of Culinary Medicine

- evidence-based field in medicine that blends the art of food and cooking with the science of medicine
- help people make good personal medical decisions about accessing and eating high-quality meals
- helps prevent and treats disease and restore well-being
- 50 medical schools and 65 sites





La Puma J. What Is Culinary Medicine and What Does It Do? Popul Health Manag. 2016 Feb;19(1):1-3. doi: 10.1089/pop.2015.0003. Epub 2015 Jun 2. PMID: 26035069; PMCID: PMC4739343.

Scoping review-2023

- culinary medicine programs for medical students
- 251 studies, of which 12 met inclusion criteria
- consistently improved student knowledge in key areas of nutrition application and changed knowledge and attitudes about food and nutrition
- Funding was often noted as a barrier to program sustainability. When funding source was provided, it derived from philanthropic or academic sources
- 34 programs offering medical student-focused culinary medicine courses

Rise in Culinary Medicine interest

- Conflicting popular dietary advice, especially about weight management and chronic illness
- Widespread dissatisfaction with conventional medical approaches to chronic illness
- enthusiasm about integrative medicine
- Lots of highly processed and convenience foods, accompanied by an increasing suspicion of their health value
- rising cost of health care
- reports of 30% of low-income older US adults having to choose between purchasing medication or food
- dearth of healthy food procurement and promotion policies in institutions, worksites, schools, and government
- Revived enthusiasm for additive-free organic food, home gardening, local agriculture, and farmers' markets.

Culinary Medicine is patient-centered, cost friendly and accessible

Classic Recommendation

 "Eat fruits/vegetables, cut back on fat/sugar & exercise regularly"



Culinary Medicine Approach

- Where can the patient access healthy foods in a low-resource environment?
- How can we help the patient prepare healthy, quick meals at home in an enjoyable way?

"Food Deserts" - Problematic

- -Stigmatization
- -Narrow focus
- -Fails to address structural inequities
- -Overlooks community assets

-Solutions oriented language, acknowledging broad systemic issues

Food Apartheid

- the framing prompts an examination of the underlying food system
- who benefits from food production
- who has power to make decisions about what to grow
- who ends up eating the final products
- whose health is impacted by all of these cumulative decisions

What are the strategies to address underlying inequities by shifting and de-consolidating wealth and power from mega-corporations back to communities?

Food & Health Inequities in Chicago

Figure 67. Locations of food deserts by census tract, 2014
(US Department of Agriculture)

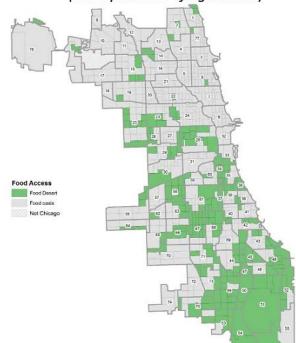
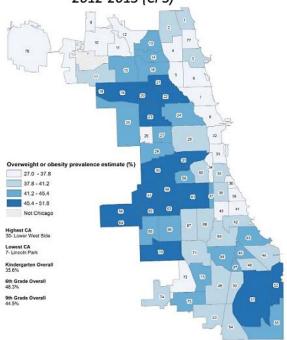


Figure 26. Overweight or obesity in CPS kindergarteners, sixth and ninth graders by community area, 2012-2013 (CPS)



11

How do we heal and grow? THE VISION

- Train future physicians to be fluent in food, nutrition and food justice/health equity
- Train and learn with students in our communities in a culturally respectful and community-driven manner
- Support our patients with chronic disease to use food as medicine
- vital to sustaining this movement until our food system produces equitable, healthy outcomes for each person within it

Getting Started... in 2015

What we needed: a chef, a kitchen, funding for supplies and food, a

curriculum, interested students!

- What was important to us:
- community building
- focus on equity and food justice
- alongside heathy eating
- excellent teaching
- a warm environment for students



Started to create partnerships in our community

The Deets:

Early stages

Donations: Local culinary school: kitchen rental time

Local grocery store: gift cards for food

Chef time

Personal expenses: some supplies

Philanthropy: Applied for and received funding from Womens' Board, U Chicago Culinary Medicine Program

Food is Power – Chicago Public School

Medical Student Elective University of Chicago & NorthShore University Health System (Endeavor Health)

> Community Cooking and Nutrition Classes

Cross-pollination

Med students

Chef

Teachers at CPS

Community stakeholders

Medical Student Elective



- University of Chicago
 - medically underserved area
 - deeply affected by chronic disease
- Each class focuses on specific diet and condtions (e.g. DASH, Mediterranean, GERD, HTN, DM)

Medical Student Elective

- Co-taught by physicians & chef in a local community kitchen
- Partner with community orgs, deeply invested in the neighborhood
- 8-week elective for MS4s



Kitchen partnerships

2016: Moved from culinary school to community based kitchen in a synagogue nearby medical school

2018: Added Experimental Station as a kitchen site-build independent cultural infrastructure by providing essential resources that respond to local needs

2021: Added Englewood Community Kitchen- community space for the Greater Englewood community to gather together and improve health outcomes through positive food experiences and personal wellness. Englewood Kitchens includes a full-service kitchen as well as a larger classroom space

Benefits: focused on local food sovereignty, much cheaper, easier for students, created long partnerships with organizations aligned with our goals, supports their financial health

Trifecta of Programs / Curricula

2015- one of the first 5 academic institutions to license the Tulane culinary medicine curriculum for medical students, since adapted for our geography

2020- wrote de novo decolonized AfroCentric curriculum for middle schoolers on South Side in Chicago Public Schools

2022- started community classes for patients with chronic diseases - adapted curriculum

Food is Power in a Chicago Public School

- Teaching culinary medicine to middle schoolers
- Food sovereignty, food systems, food justice, nutrition knowledge
- Decolonized curriculum, explores cultural foodways

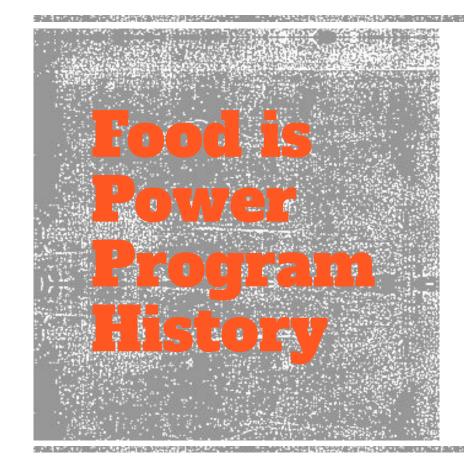


Decolonization definition

- To free (a people or area) from colonial status: to relinquish control of (a subjugated people or area)
- To free from the dominating influence of a colonizing power



 Rethinking, reframing and reconstructing the current curriculum in order to make it better and more inclusive



- Created as an outreach aspect of the successful Culinary Medicine program
- Teach youth who have the capacity to then benefit from a lifetime of powerful decisions around food, requested by community
- Work in an area affected by food apartheid – how are we sharing abundance and skills?

Food Is Power guiding values

- 1. Food is power.
- 2. Healthy food is delicious.
- 3. Food is the best medicine.
- 4. Fresh food is the best food.
- 5. Understand food <u>routes</u>.
- 6. Honor food <u>roots</u>.
- 7. Students are already food experts.
- 8. We believe in food sovereignty
- 9. Our food choices don't define us









Integrated Curriculum

- Follows the Colors of the Rainbow
- Nutrition, Food is Power cooking



- ORANGE LESSON
- Nutrition lesson: Vit A and C, anti oxidants, deficiencies, historical perspectives
- Food is Power lesson: Flavor, Food Science and Marketing, "Bliss Point", taste map on the tongue
- Recipes: Sweet Potato fries, Mango Salsa



Reimagining delicious healthy food

Using locally sourced and grown food

Making powerful decisions!

Field trip to Food 4 Less:

Label reading Investigating Questioning Learning

Decolonizing





Honor Foodways

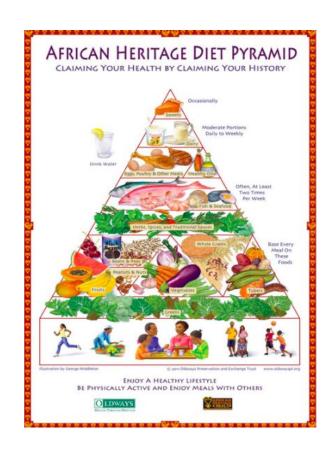
Use resources that honor the routes and roots of heritage:

Oldways- https://oldwayspt.org/

Healing Foods Pyramid- U of M https://www.canr.msu.edu/foodsystems/uploads/fil es/TheHealingFoodsPyramid.pdf

Talk to your patients about their heritage foods if you are unfamiliar

Partner with local agencies that represent heritage of your patient population



A closer look:



food is power

a field guide for students on nutrition, health, and food justice



Developed by: Geeta Maker-Clark, M.D. Julia Hesse-Fong, B.A. 2020









Nutrition lesson:

- ☐ Vitamin A
- □ Lycopene

Food is Power lesson:

- $\hfill \square$ Natural vs. Artificial foods
- Natural food color vs. added/synthetic food dyes (esp. red)
- ☐ Food roots and routes: cabbage

Cooking lesson:

- ☐ Recipe: Red Cabbage Salad
- □ Recipe: Easy Tomato Sauce
- □ Recipe: Mini English Muffin Pizza
- Skills: slicing and marinading









Where do foods get their bright red color? The answer is—micronutrients!

The vibrant red color of many fruits and veggies of comes from a wonderful nutrient called **lycopene**. **Lycopene** makes many of the fruits and veggies we eat a beautiful red or pink color. It's also an antioxidant that helps fight against sunburns and promote skin health. Most (80%) of the lycopene in our diets comes from tomatoes.

In some red foods, we can also find **Vitamin A**. Vitamin A strengthens your vision and your immune system to help you fight off colds.

antioxidant substances from food that neutralize damage and protect the body from harmful byproducts from cellular activities. The best sources of antioxidants are fruits and vegetables

spotlight on: lycopene

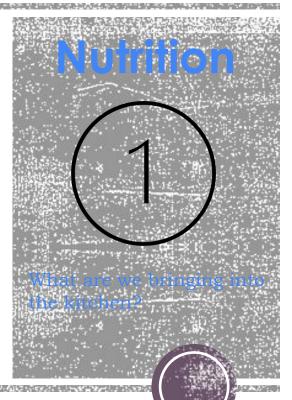
- ☐ Nutrient that makes plants red and pink
- ☐ An antioxidant

Found in: red carrots, watermelons, grapefruits and papayas

spotlight on: vitamin A

- ☐ Supports vision and immune system
- ☐ Helps your organs work well

Found in: green leafy veggies, green, yellow and orange fruits and veggies, including carrots, broccoli, cantaloupe, apricots and mangoes



from Food is Power Field Guide

Red & Pink

beets, cherries, cranberries, pink grapefruit, pomegranates, radicchio, raspberries, red radishes, red apples, red grapes, red onions, red peppers, red potatoes, rhubarbs, sorrel (iamaica), strawberries, tomatoes, watermelons.

Yellow & Orange

acorn squash, bananas, butternut apricots, squash, cantaloupes, cauliflower carrots, corn (maize), lemons. grapefruit, mangoes, nectarines, oranges, orange peppers, peaches, pineapples, papavas, pumpkins, summer squash, sweet potatoes, tangerines, yams, yellow apples, yellow peppers, yellow squash

Green

artichokes, asparagus, avocados, bok chov, broccoli, brussels sprouts, celery, collard greens, cucumbers, green beans, green cabbage, green grapes, green onions, green peppers, kale, kiwis, leeks, limes, lentils, mustard greens, nopales (cactus), okra, pears, peas, romaine lettuce, snow peas, spinach, sugar snap peas, watercress, zucchini

Blue & Purple

blackberries. blueberries, black currants, dates, eggplants, grapes, plums, prunes, purple figs, raisins

(red cabbage, beets and red onions can also fall under blue and purple)

Brown

barley, beans, brown rice, garlic, Jerusalem artichokes, onions, potatoes, parsnips, shallots wild rice mushrooms, jicama, hominy, teff, millet

These foods are traditionally associated with these colors

- but do you know about:
- □ purple corn, cauliflower & tomatoes
- □ red, vellow, & green lentils green nuts
- □ red, white, & black quinoas?

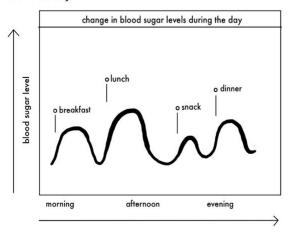
What foods are we bringing into the kitchen?

from Food is Power Field Guide

What health stories are we bringing into the kitchen?

Have you ever felt sleepy after eating a sugary treat or pasta? This is because these foods raise the blood sugar very quickly, and then the blood sugar goes down very quickly, which can lead to an energy "crash". Some foods that have a high glycemic index (GI) include: sugary soft drinks, sugary food, white bread, potatoes, white rice. Whole wheat bread and pasta takes longer for the body to break down, so the blood sugar doesn't go up or down as quickly.

During the day, our energy levels go up and down. For mood and energy, it's important to have blood sugar levels that are steady.



If you have family members with diabetes, they often take medicine to help keep their blood sugar steady and follow an eating plan with low GI foods. While diabetes can run in families, it is affected by many things that you can change (like diet, exercise, and stress levels). Just because you have family members with diabetes doesn't mean you will too.

For more information, check out WANDA: Women Advancing Nutrition Dietetics and Agriculture (http://www.iamwanda.org/)



from Food is Power Field Guide



We can empower ourselves by growing food ourselves. This way we can also recognize the types of food that are already growing around us. Our ancestors were **foragers**, people who knew and survived off of the hundreds of edible plants growing on the land.

We can start to rebuild our knowledge about food through growing food ourselves. By growing food, we can also grow our own food supply!

Kale growing at Urban Growers Collective's South Chicago Farm. Photo by Urban Growers Collective.



from Food is Power Field Guide

food is power lesson

Flavor

Have you ever eaten a sea salt and vinegar potato chip and then eaten a whole bag?

Food marketers and scientists have engineered certain foods to taste very good and have made food from using some of the least nutritious ingredients (sugar, salt and processed white flour). This means that some of the food we crave might satisfy our hunger and taste-buds, but might leave our bodies still needy for nutrients.



An example of this engineering is the "bliss point" (a term developed by food scientists) that refers to a perfect balance of flavors designed to keep a food consumer coming back for "just one more." This is the taste that keeps us eating "just one more" chip--over and over again.

Over time, these processed foods can lead to health problems down the line (like diabetes, obesity, and high blood pressure). Many people today—even doctors!—don't discuss **whole foods'** importance to health.

exploring your taste buds activity

Ask: Can you name all the flavors? We can take control of what we eat by figuring out the foods that satisfy our taste buds and help fill our bodies.

Reflection questions:

- Which flavors are your favorite?
- What fruits and veggies taste the best to you?





roasted broccoli and buffalo sauce

ZUR EPSEUTER.

ingredients

BROCCOLI

- □ 2 heads of broccoli
- ☐ 4 large eggs
- 1 cup bread crumbs (ideally whole wheat)
- ☐ ¼ tsp salt
- ground black pepper

BUFFALO SAUCE

- □ 1 tbsp unsalted butter
- □ ½ cup hot sauce
- □ ½ lemon juice
- ☐ ground black pepper

equipment

- ☐ knife
- ☐ baking sheet
- ☐ parchment paper
- □ bowls (2 medium, 1 small)

Which hot sauce do I use? You can buy hot sauce in the store or make it yourself.

Try a mild hot sauce like Cholula, which is made from pequin peppers. Pequin peppers are native to the Mexican state of Tabasco.

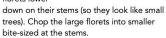
Caribbean hot sauce is made from scotch bonnet peppers, which are native to Jamaica. Scotch bonnet peppers are one of the **hottest** peppers in the world.

prep

broccoli → wash and cut into florets

step-by-step broccoli:

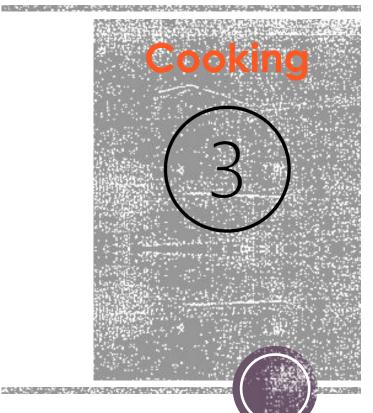
- Gather all ingredients and pre-heat oven to 425° F.
- Chop the heads of broccoli into florets lower



- Break the eggs into one medium bowl and whisk.
- 4. In the other bowl, mix the bread crumbs, salt, and pepper.
- Dip the broccoli floret into the egg mixture, letting excess egg to drip off. Then, dip and roll each broccoli floret into the bread crumb mixture. Put the floret immediately onto the baking sheet. Bake for 15-20 mins.

sauce:

- Make the sauce Place butter in small bowl. Heat in the microwave or the stovetop. until completely melted.
- Mix the hot sauce, lemon juice, and pepper into the butter and stir to form a smooth sauce. If the mixture isn't smooth, heat it for another 10 seconds.
- 3. Enjoy 1 tbsp of sauce per 1/2 cup of broccoli



PARTIES 17.00

Amplifying voices



Author and historian Michael Twitty. (Photo by https://www.sierraclub.org/sierra/2017-5-september-october/books/michael-twitty-wants-reconnect-african-americans-their-food

Michael Twitty is a well-known culinary historian of African and Jewish foods. He focuses on preparing, preserving and promoting African American foodways and its parent traditions in Africa and her Diaspora and its legacy in the food culture of the American South. He has written multiple books on the topic, including *The Cooking Gene and Afroculinaria*.

https://afroculinaria.com/2016/01/16/a-letter-to-the-newgrorati-of-collards-and-amnesia/

Curious about what edible plants might be growing in your neighborhood?

Check out TikTok sensation **Alexis Nikole Nelson** to find out how to identify plants around you.

IG - @blackforager TikTok - @AlexisNikole the land ca, and seeds.

peanut n. and utter).

*You can buy sun butter in the store or make it yourself (see the Any-Seed Butter recipe in the brown foods lesson)

Chef Sean Sherman (Oglala Lakota Sioux) uses sunflower butter in the recipes in his James Beard award-winning cookbook -- The Sioux Chef's Indigenous Kitchen. To learn more about the exciting work his organization is doing to identify and reclaim native foodways, go to The Sioux Chef website (www.sioux-chef.com).

Community Cooking & Nutrition







- Free classes for diabetes and chronic diseases
- Co-led by UChicago MD's, medical students, and a chef
- Adapted from Goldring Center for Culinary Medicine

Class Recruitment and Eligibility

COOKING & NUTRITION CLASSES

UCHICAGO PATIENTS AND SOUTH SIDE RESIDENTS

Attend one or multiple classes! Thursday 5/25 (4-7pm)

> Thursday 6/1 (4-7pm) Thursday 6/8 (4-7pm)

Friday 6/9 (4-7pm)

Experimental Station 6100 S Blackstone Ave. Chicago, IL 60637

1 mile from UCMC

participants must be vaccinated and masking during classes is optional



· Nutrition and cooking tips for chronic disease management.

- · Prepare and eat a healthy meal
- . We encourage adult family members and caregivers to attend together!

Go to https://redcap.link/i7usyxo0 to sign up!

If you attend the class, you can also participate in a research study evaluating the course. Participation in the research is VOLUNTARY. You may attend the classes without participating in the study. Sonia Oyola, Principal Investigator

Participation

- Complete two surveys (~5 min each)
- . Complete one 30 minute interview
- . You will receive \$10 per survey and \$25 for the interview upon completion as a thank you

Research Eligibility

- · UChicago Medicine patient or South
- 18 years or older with a chronic illness

contact Megha Prasad with questions (meghaprasad@uchicagomedicine.org)

Recruitment

Classes were advertised through:

- UCM Clinics
- Kovler Diabetes Center newsletter
- SHARE Network
- Flyers in community

Eligibility

Participants were required to:

- Be residents of the South Side or UCM patients
- Have a chronic condition (ex. Diabetes, hypertension, etc.) or be caring for someone with a chronic condition
- Be 18 years or older

Methods





Included:

- Information about dietary practices
- Confidence in management of health conditions and making healthy food choices
- Goals for the class



Post-Survey: taken after participants' last class

Many of the same questions from the pre-survey

Additional questions on access to resources and gains from the classes



Interview: taken after participants' last class

Conducted via Zoom and recorded

Semi-structured format, expanded on questions asked in surveys.





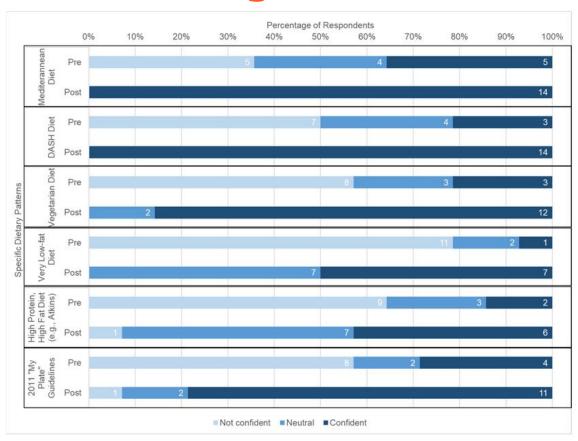
Article

Empowering Future Physicians and Communities on Chicago's South Side through a 3-Arm Culinary Medicine Program

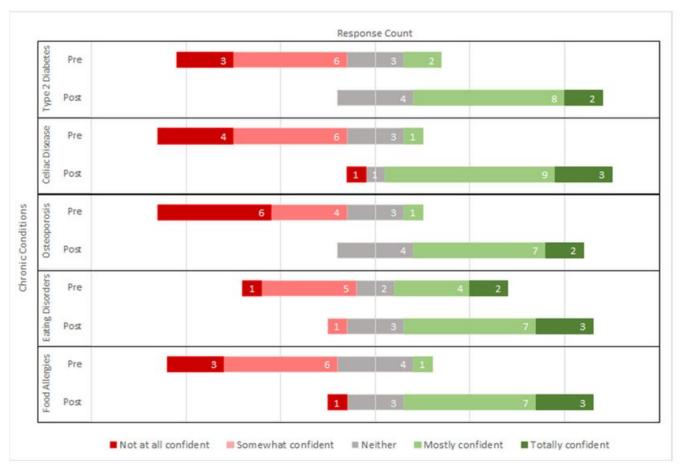
Geeta Maker-Clark ^{1,*}, Ashley McHugh ², Hannah Shireman ², Valeria Hernandez ², Megha Prasad ³, Tiffany Xie ³, Arianna Parkhideh ³, Carlin Lockwood ³ and Sonia Oyola ^{2,*}

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- ³ Pritzker School of Medicine, University of Chicago, Chicago, IL 60637, USA
- Correspondence: geetamaker@gmail.com (G.M.-C.); soyola@bsd.uchicago.edu (S.O.)

Change in med students confidence in nutrition counseling



Specific condition counseling



Food Is Power- the kids' feedback!

Table 2. Qualitative feedback shared by Food Is Power research participants.

Understanding of "Fo	od Is Power" Concept
"Food is Power to	me means that food, health foods give you energy or power". 2021–2022 student
"It means you can	n make powerful choices for your body". 2022–2023 student
"It means that wh	nat you eat can affect you and is an important power of life". 2022–2023 student
"I think it means	that the food you eat is [your] power". 2022–2023 student
"To me it means t	hat food can help you in a lot of ways for your body". 2021–2022 student
"That is was impo 2021–2022	ortant for people to know what they eat so they can learn from what they eat".
Knowledge and Willin	ngness to Try New Foods
	ned in Food is power is that even when you don't like a particular food that you had in always try to improve it". 2021–2022
"I learned to alwa	ys try new foods. As many say 'Don't let anyone yuck your yum'". 2021–2022 student
"I get to learn l	now to cook different types of food". 2022–2023 student
	s was when we would learn the history of some foods and then be able to make out of it". 2021–2022 student
"I would learn di	fferent tips about different ingredients and facts". 2021–2022

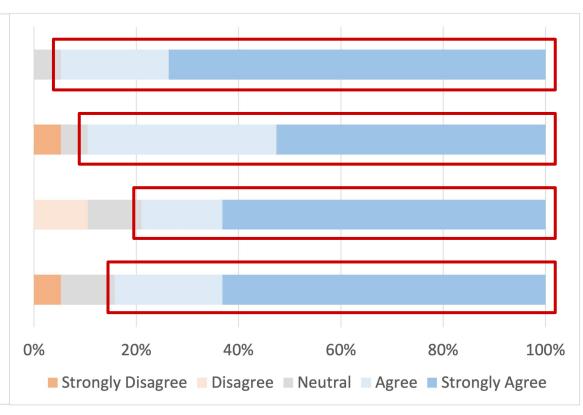
Survey Data: Self-Reported Access to Resources Used in Class

I can easily get to a grocery store that sells the ingredients we used in class.

I have time to make the recipes we learned on a typical day at home.

The recipes we learned in class would be easy for me to make at home.

The recipes we learned in class are affordable to make at home.



Interview Theme: Gains from Class Subtheme: Behavioral Changes

"Even now I've decided that I don't eat out as much. I stopped, you know. **Don't buy as much fast food** as I-as I used to. And **I'd just rather cook at home**. I rather just cook my meals at home." - 2023 Participant

"My A1C was...12. Then it went down. my last one back last year was 10. **Now my A1C is 7.3**." - 2022-23 Participant





Interview Theme: Gains from Class Subtheme: Community

"I just loved the whole community of us getting together and making these dishes and then learning. And then also **exchanging ideas with each other!** I thought that was very very rewarding and an excellent experience and I can't wait to do it again. Matter of fact, I miss you all!" - 2023 Participant

"Coming to this class and the **camaraderie** we had with meeting other people and **everybody sharing their stories**. And we all had, you know, we all had our stories and our struggles. Because truly, truly diabetes, it is a struggle." - 2022-23 Participant





Some Key Learnings:

- Always seek out the leadership in your community for direction
- It takes time to grow relationships, trust and care- put the time in and be flexible
- Be mindful and critical about your curriculum- do not perpetuate harmful savior practices



Cooking Up Health through 2 Delicious Academic-Community Partnerships

Osher Center for Integrative Medicine at Northwestern University



The Role of Academic Research in Supporting

"Common rengaged research" in to zee a steep i and common type research participatory approach to research

Benefits to the community partners include

- Capacity building on many or all aspects of research
- Explorations that are grounded in community priorities and realities
- Funding for intervention strategies (intervention research)
- Results that can help strengthen community initiatives and open them up to new opportunities



The Role of Academic Research in Supporting Community Initiatives and

Participatory approach to research

Benefits to academic/research partners include:

- Capacity building on community realities
- Explorations that make the science more pertinent and "true"
- Funding for research activities
- Results that can enhance the credibility of the researcher and open them up to new opportunities



Alliance for Research in Chicagoland Communities Seed Grants for Academic-Community Research Partnership Development











Osher Center for Integrative Medicine







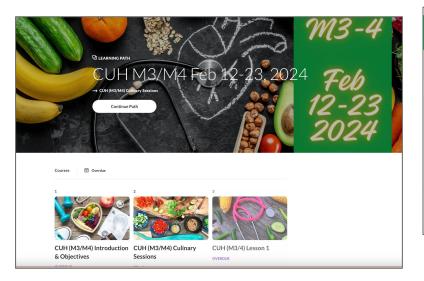
Research



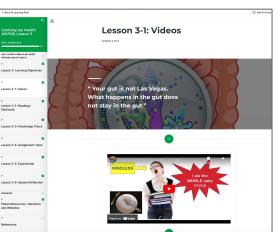
Community

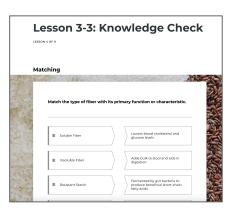


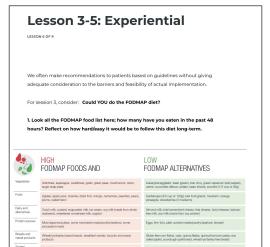
- **✓** Applied Nutrition
- ✓ Diet as Disease Prevention & Management
- ✓ Public Health
- ✓ Nutrition Coaching
- ✓ Cultural Competency
- ✓ Culinary Skills

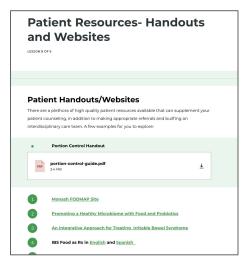














In person > Virtual CUH









Other outcomes

2018 International Congress on Integrative Medicine and Health, Baltimore, MD, May 8-11, 2018		
Title: Do One, Teach One, See One: Flipping The Medical Learning Paradigm from Passive To Active		
Presenters: Melinda Rir	ng, Rupa Mahadevan, Elaine Cheung, Sreela Namboodiri	
2018 International Con	Onl Presentations and Workshops:	
Title: Cooking Up Healt	Daler Corier hasput? Regular Masses Conheses, Chapp II, Moscoy Y, WIT	
Authors: Melinda Ring,		
	The Conting (i) thinks thinky Consystent Associated thinks	
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Authors: Melinda Ring,	Title The Power of Research Is Address Controlling Facilities and Hotel In-Inguisity	
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Title: How Partnership		
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Title: Culinary Medicine		
Presenters: Amy Locke		
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M Northwestern Medicine* Feinberg School of Medicine



7th Annual ARCC Community-Engaged Research Partnership Award Recipient: Cooking Up Health: Docs & Kids in the Kitchen

The <u>Alliance for Research in Chicagoland Communities</u> (ARCC), a program of the <u>Center for Community Health</u> serving the Northwestern University's <u>Institute for Public Health and Medicine</u> and <u>Clinical and Translational Sciences Institute</u>, developed the <u>Community Engaged Research Partnership Award</u> to recognize research partnerships that exemplify strong collaborative research principles and are working to impact the health of their community.



The 2018 award acknowledges the efforts of Cooking Up Health: Docs & Kids in the Kitchen, the exemplary partnership between lead community partner, Stephanie Folkens of Common Threads, a community organization fighting childhood obesity through cooking and nutritional education, and lead academic partner, Northwestern's Melinda Ring. MD of the Osher Center for Integrative Medicine.

Cooking Up Health grew out of the recognition that solving the obesity epidemic and its downstream health consequences depends on preventative efforts at the individual, community, and public health level. A 2013 analysis of childhood obesity in Chicago revealed an overall overweight/obesity prevalence of 43.3% among public school students. Additionally, although physicians are at the frontline of assessing and advising patients on nutrition and weight, only 27% of medical schools teach the recommended 25 hours of nutrition, and fewer than 14% of practicing physicians believe they were adequately trained in nutritional counseling.

2018 NUCATS Implementation and Dissemination Award/National Institutes of Health's National Center for Advancing Translational Sciences, Grant Number UL1TR001422



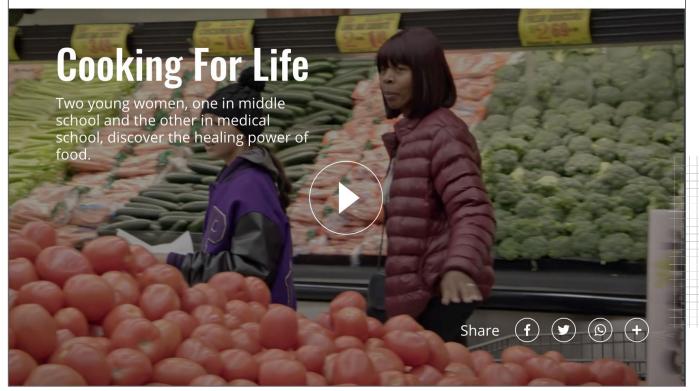
ABOUT

FILMS

GET STARTED

EVENTS

CONTACT US



SCAN ME



HTTPS://TAKECARE.ORG/FILMS /COOKING-FOR-LIFE





Growing Resilient, Equitable and Vibrant Communities from Within

Home About Our Team Sustainability Wellness Learning Economic Vitality Events Contact





Access to **health care** is racial justice.

Environmental justice is racial justice.

Educational opportunity is racial justice.

Food security is racial justice.

Nature, parks and clean air is racial justice.

Economic investment is racial justice.

We were born *from* the community, *for* the community, to catalyze systemic **racial justice.**

The Cultivate Collective Community Wellness & Sustainability Hub





Elements of an Authentic Partnership



https://ccphealth.org/partnering/principles-of-partnering/ CCPH Board of Directors. Position Statement on Authentic Partnerships. Community-Campus Partnerships for Health, 2013.

Identifying specific community partners & beginning relationships

Who and how do you want to engage?

- Who are the groups or people you want to engage?
- How are you centering people that have lived experience with the focus issue?
- Do you already have relationships, or do you need to find partner(s)?
- What info about you/your team will you want to share with possible partners?
- What info will you want to know about possible partners?



Getting Started

- Take time to get to know each other
- Decide if & how you want to work together
- Who is missing from the table?
- Keep working on & paying attention to trust & healthy relationships
- Discuss/document how you want partnership to work
- Set up partnership structures & processes

Do not rush through phase of getting to know each other, building personal connections and relationships

- Investing early will reap benefits later
- Lays foundation for every aspect of research collaboration

Approach engagement/partnership deeply

- Top leadership in an organization bring expertise/experience, & frontline staff bring different but equally valuable expertise/experience. Need both.
- Community members or clients bring another type of expertise/experience.
 E.g. youth serving as advisors or youth advisory board will give different insights in improving youth survey than staff of youth-serving organization

Academic-Community: Moving from partners to partnership

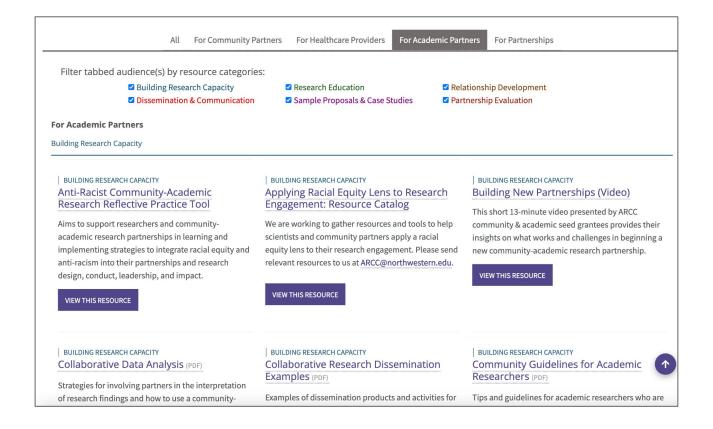
- Build trust- get to know each other, socialize, sweat equity, humor
- Communicate early, well, & oftenwhich methods work, what language is being used
- Discussing, Setting, Documenting expectations (MOUs). Clear understanding of everyone's roles, responsibilities, & deliverables.
- Allow time & discuss process for decision making

	Start/Due Date	
Table 1. Actions associated with completion of Aim 1.	7/1/2016	8/1/
Aim 1: Develop Partnership		
A. Strengthen relationships among existing partners through quarterly meetings.		
Review principles of academic-community partnerships		
Write list of shared goals		
Create plan to assess partner capacity		
Conduct capacity assessment		
Write governance rules		
Prepare memoranda of understanding		
B. Hold seminars to co-educate partners		
Introduction to Common Threads		
Overview of Osher Center for Integrative Medicine		
Curriculum sharing workshop: CT and OCIM current state		
Research sharing workshop		
C. Outreach to community partners		
Engage Chicago Public Schools		
Engage out-of-school time providers		
Engage Feinberg School of Medicine students		

Challenges

- Trust & respect (or lack of), power differentials
- Relationship building process
- Time-consuming/Effort
- Compromise/conflict
- Community research not always understood/supported by community or university leaders
- Services vs research
- Ethical issues unique to engaged/partnered research

RESOURCES curated by Alliance for Research in Chicagoland Communities: www.ARCCresources.net



Advocate Good Shepherd Hospital Center for Health & Integrative Medicine

Connecting Smart Farm to Human Health



The Center for Health and Integrative Medicine

vison that IMAGINED that there could be a place within the hospital where all could go to build a foundation of health and to meet challenges: mind, body and spirit.

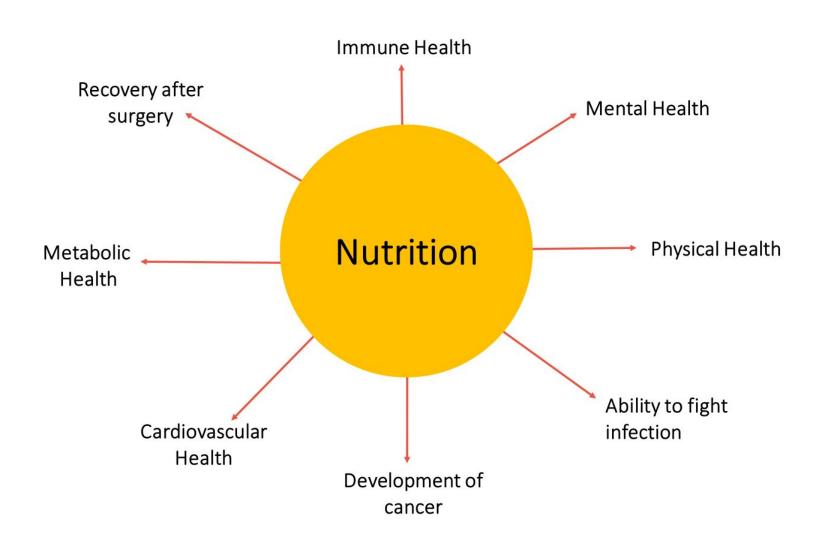


Opportunity for Alignment: Community Health Needs Assessment

Community health improvement is an effective tool for creating a shared vision and supporting a planned and integrated approach to improving health outcomes.

Tax-exempt hospitals are required to conduct a community health needs assessment (CHNA) and develop an implementation strategy to document how the hospital will address prioritized community health needs.

Two areas of focus through 2025: Mental Health & Obesity



Societal Effects of Nutrition

Healthcare costs

Economic factors

Productivity

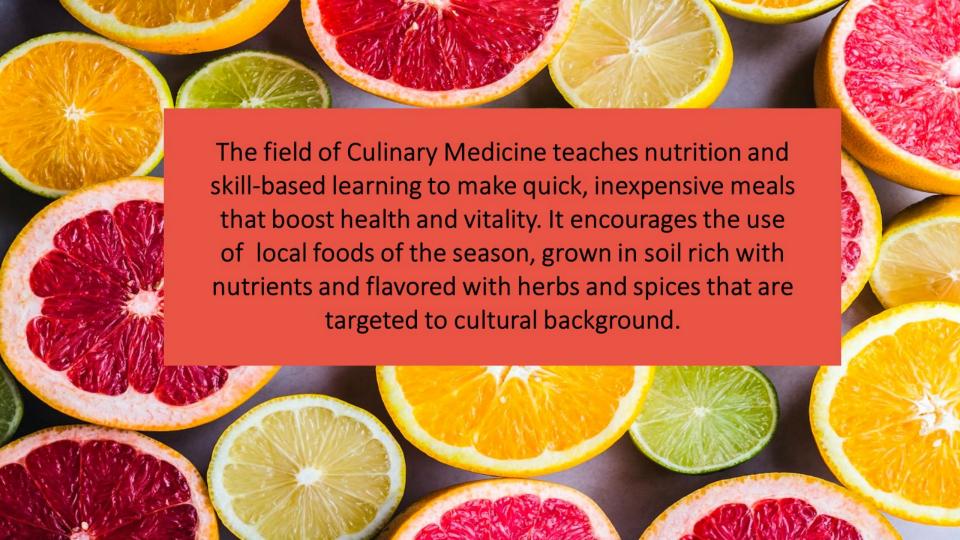


Health Equity

U.S. National Security

The Planet

Overall wellbeing



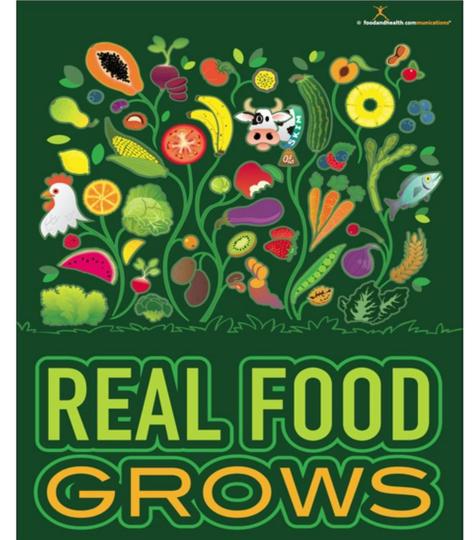


The Healthy Active Living (HAL) program is a multidisciplinary program for kids ages 2-18 who struggle with excess weight gain. With a personalized focus on a family's needs, HAL helps patients establish and achieve specific goals for creating healthy habits.

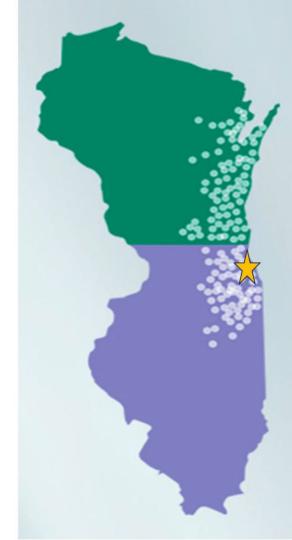








The Bigger Picture



Farm to Hospital Locations







Smart Farm?

Our Mission:

To provide high-quality produce to our communities and those in need who are at risk of food insecurities, while being an educational resource on sustainable gardening and farming practices, healthy eating and strategies to help people Live Well.

In partnership with our Integrative Medicine Medical Director and team, our goal is to improve chronic disease management and utilize food as a preventative tool to decrease the prevalence of chronic disease. We will engage patients, community members as well as our clinicians and hospital team members.







Produce Grown

Produced 8 tons or 16,800 lbs. of produce or about 14,500 meals.



Community Impact

Produce was donated to 4 local food pantries, hospital food farmacy, and sold at our farm and hospital stands.



Farm Future

Aim to expand our 2-acre operation to 10-15 acres in the next 3-5 years.



Expand Partnerships

Develop partnerships with external and internal organizations to expand impact to our patients and greater community.

Why Smart Farm?



Industry Wide Shift

- 80% of health outcomes determined by non-direct medical care
- 40% influenced by Social Determinants of Health (SDoH)
- Food insecurity impacting more than 50 million people since COVD-19



Chronic Disease Management – Diabetes, Heart Disease, and Cancer

- Role of food in managing chronic disease
- Fewer than 1 in 10 adolescents and adults eat enough fruits and vegetables



Addressing Food Insecurity

- 9.5% of residents are food insecure in state of II.
- 10% of residents in North IL PSA experience food insecurity
- 13% of residents in South Chicagoland PSA experience food insecurity
- Adds \$53B annually in healthcare costs



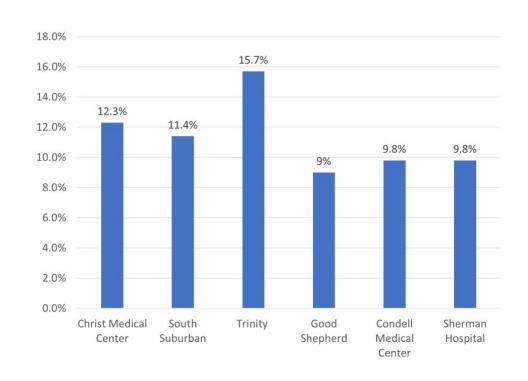
Advocate Health 6 Areas of Impact

- Advance Health Equity
- Lead Environmental Sustainability

Food Insecurity

- Rate of food insecurity continues to rise
- 9.5% of Illinois residents are food insecure
- Food pantries need support
- Not enough produce available
- Community members waiting in lines2+ hours long

Food Insecurity Rate by Advocate Hospital



Food Insecurity

Christ Medical Center		South Suburban		Trinity				
Food Insecurity rate	12.3 percent of residents	Food Insecurity Rate	11.4 percent of residents	Food Insecurity Rate	15.7 percent of residents			
The Zip codes within the hospital geography with the highest food insecurity rate								
Neighborhood	Food Insecurity Rate	Neighborhood	Food Insecurity Rate	Neighborhood	Food Insecurity Rate			
West Englewood (60636)	18.7 percent of residents	Harvey (60426)	17.0 percent of residents	South Shore (60649)	20.4 percent of residents			
Justice (60458)	16.8 percent of residents	Chicago Heights (60411)	14.7 percent of residents	Grand Crossing (60619)	17.0 percent of residents			
Chicago Ridge (60415)	16.2 percent of residents	Dolton (60419)	12.8 percent of residents	Auburn Gresham (60620)	16.1 percent of residents			

Trinity Food Farmacy Pilot



Trinity Hospital

Highest rate of food insecurity at 15.7% of residents



Healthy Living Food Farmacy

Bringing fresh produce to food insecure patients



Pilot Goal

Provide 10-20% of Smart Farm produce



Benefit to Organization

Opportunity to test the distribution process, expand impact, and track success





"Healthy Soil, Healthy Food, Healthy People." -J Rodale



Soil vs The Cereal Box











Rodale Institute
Regenerative Health
Care Conference
September 2024

BARRINGTON health & wellness summit

A curated group of experts bringing the health & wellness movement to Barrington



3-5 Year Growth Plan

Objectives	Year 0	Year 1	Year 2	Year 3	Year 4 & 5
	(2022-23)	(2024)	(2025)	(2026)	(2027-2028)
Acreage Total	2 acres (Current State)	5-6 acres	8-9 acres	10-12 acres	15+ acres
Produce	16,800+ or 14,500+	49,000lbs or 29,000	98,000 lbs. or	126,000 lbs. or	180,000lbs. or
	meals	meals	81,600+ meals	105,000 meals	150,000 meals
Community Impact	Partner with local community orgs Food pantries AH Hospital partnership – Trinity Food Farmacy HMC Chronic illness pilot Farm and hospital stands	Incorporate Culinary Medicine & Educational Programming Cooking demonstrations Increase # of food farmacy sites Partner with AMG clinics and hospital depts to identify food insecure pts	Pilot education programming with schools in GS community Continue tracking clinical outcomes Residency partnerships	Explore FQHC collaboration Fartner with EAP resident Continue tracking clumber Expand educational schools within comments on tinued education	sources inical outcomes programming with munity nunity partners for

Smart Farm Food Voucher Pilot Program Health Manager Center

- Multidisciplinary chronic disease management center
- Services include:

Anticoagulation clinic

Bariatric Surgery

Diabetes Education

Diabetes Medication Management

Medical Weight Management

Nutrition counseling

Wound clinic

- Screening process:
 - Clinician screens pt for food insecurity using questionnaire in Epic
 - Provides food resources and voucher to pts identified as food insecure



Food Farmacy Ingredient Spotlight

Collard Greens

1 teaspoon salt

RECIPE

Ingredients

- 2 cloves garlic
- 1 bunch collard greens
- 1 large yellow onion
- 1 teaspoon dried herbs
- 2 tablespoons vegetable oil
- ½ cup stock or water

- 1 can diced tomatoes
- · 3 cups cooked brown rice
- 3 cups cooked brown no
- 2 cups cooked beans
- · 1 lime





Steps

- 1. Dice the onion and garlic. Chop or tear the greens into bite-sized pieces.
- 2. Heat the saucepan on medium-high heat for 1 minute and add 1 tablespoon oil, half the garlic, and the greens. Sauté until tender, about 4 minutes. Remove the greens from the pan and setaside.
- 3. In the same pan, heat the remaining 1 tablespoon of oil. Add the chopped onion and the remaining garlic and sauté until brown, stirring occasionally with a spoon or spatula. Add the stock a couple tablespoons at a time. Continue to cook to reduce the liquid until the onions are soft and caramelized, about 10 to 15 minutes.
- 4. Add the can of tomatoes and its juices to the pan. Heat the mixture to a simmer, with small bubbles coming up to the surface gently. Allow to cook at this heat for 8 to 10 minutes.
- 5. Add cooked greens, herbs, and 1 teaspoon of salt. Continue to simmer, stirring occasionally, for 3-5 minutes.
- 6. Fold the cooked rice and beans into the pan and heat through. Garnish with a squeeze of lime juice and extra herbs, if desired.

Lessons Learned



