Promoting Sustainability in Food Service: a Qualitative Exploration of Barriers, Facilitators, and Best Practices in Veterans Affairs Hospitals



Prepared by the NOPREN Food Service Guidelines Work Group



- **71%** (n=10) used vendors other than their prime vendor (US foods)
- Served in their current role for **~6.5 years** (range 6 months 21 years)
- Facility has been implementing practices for ~5 years (range 0 - 12 years)



- Low Success (2-3)
- Moderate Success (4-5)
- High Success (6+)

Barriers, Facilitators & Best Practices

(1) Increasing plant-forward and plant-based dishes



BEST PRACTICES...

- 1. Take familiar dishes and make them plant-based (n=8)
- 2. Accommodate your demographics (i.e., marketing strategies, taste tests) (n=6)
- 3. Increase offerings of vegetarian options (n=6)
- 4. Blend plant and meat proteins, offering seafood, altering portion sizes of proteins vs. veggies (n=5)

d dishes	Barriers	Facilitators
TICES es and make (n=8) ur ., marketing ests) (n=6) s of s (n=6) neat proteins, altering roteins vs.	Patient preference for meat dishes, non-meat dishes not ordered enough, patient demographic (n=10) Time needed to plan menus, staffing issues (n=4) Supply chain issues, cannot find meatless products (n=2) Does not work with current meal prep operations (i.e., not a room service menu, cook chill) (n=2)	Testing recipes in the cafeteria first, taste testing (n=5) Working with chef/cooks to develop recipes (n=4) Newer/younger patients have more preference for vegetarian dishes (n=4) Staff-perceived importance, goal-setting (n=3)
	"I think, our biggest challenge is [] acceptance by the patients, because even on those days where we serve the meat-free items, they're like, you know, 'Where's the meat?' So [] they're interested in eating healthier, but the percentage that still wants meat is very high."	"Just having the cafeteria where we can trial different things more [], because we can pretty much go to the cafeteria after we serve something and [] it's just easier."

Barriers	Facilitators	
Limitations with prime vendor, i.e., US foods (not available, have to purchase product on contract, not clear which products meet certifications) (n=9) Practice is not a priority to justify resources (time, cost) (n=5) Lack of patient/staff buy in (n=4) Organic foods are more expensive (n=3)	Products are easily available and/or reasonably priced (fair trade coffee, chicken Raised Without Antibiotics (RWA)) (n=6) Offered through or advertised by prime vendor (US foods) (n=5) Leadership priorities (n=2) Patient support (fair trade coffee) (n=1)	1
"I'd love to say [it] is simple, but it's, it's finding the substitute. It's changing it in computrition. It's creating a new item. It's building a new recipe. [] There's so much work to make just something very simple happen."	"Scoop is US foods like, advertisement. There's like new Scoop products and they advertise very well what are sustainable products. Um, they give all the information really well."	2

(2) Procuring and serving sustainable foods that meet organic, ecological, and/or other ethical certifications



BEST PRACTICES...

- 1. Choose products that are easily available and/or reasonably priced (n=4)
- 2. Work with prime vendor (ServeGood report or US foods representative) (n=4)
- 3. Work with other local VAs (coordinate what products you choose to ensure they're prioritized and stocked) (n=1)

Barriers	Facilitators		
Burden setting up contracts with local farmers (time, contract language, finding examples) (n=8)	Having someone with time/passion to champion the effort (n=4)		
Lack of consistency or standardization of the product (n=6)	Local options are better compared to the prime vendor (less expensive, easy to work with, better quality, lasts longer)		
Finding farmers whose production meets the needs of the facility	(n=4)		
(n=5)	through US foods (n=4)	1	
Difficulty working with US foods for local products (n=5)	Inherited a long-established contract (n=2)	established lo n=2) 2.Co	
"Going through the process of becoming a vendor and, just complying with the way invoices need to be submitted. It's not something that was of perceived as something of value to [the farmers] and more of an investment. So, we can try, but we didn't get very far."	"I've renewed the [contract] a couple of times because [local vendors] are cheaper than our prime vendor. And the service is fantastic []. The product is better, the milk is fresher. The expiration dates are way further out."	3	

3) Procuring & serving ally/regionally produced foods



BEST PRACTICES...

- in with the most used or ferred product to purchase ally (i.e., milk, chicken) (n=4)
- nmunicate importance of al food purchasing to staff /or leadership (n=2)
- vide community outreach assistance with contracting)
- rk with vendors and VA tracting to help set up the contracts (n=1)

(4) Reducing food waste	Barriers	Facilitators
	Time commitment too large (n=4)	Staff support (motivation, time/effort) (n=4)
	Food waste and usage is difficult to assess	Switching to selective menu. (n=3)
1. Implement food tracking/plate waste studies to prevent	(staff decisions, tracking) (n=3) Cost (n=2)	Leadership support and/or passion (n=2)
overproduction (n=6) 2. Monitor/rotate product to use leftovers and/or use products	Issues with biodigester (smell, sanitation, frequent breakdowns) (n=2)	Practice is cost/time efficient (n=2)
 before they expire as per safety guidelines (n=5) 3. Engage food donation programs (n=5) 4. Use equipment to reduce carbon footprint of waste (pulper, biodigester, oil recycle, and/or compost) (n=3) 	"I don't think anything has been necessary difficult once we do it, it's more finding the time to, take on a project. [] Definitely the food pantry has been the bigger project that took a lot more time, and a lot more effort from other people."	"We are actually working on a project that allows us to, serve our leftover food to patients that are food insecure. I have a supervisor that, this is kind of his passion. So, he's worked really hard on this project."
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(5) Reducing energy consumption and/or reducing non-food waste



BEST PRACTICES...

- 1. Apply practices to use less plastic/Styrofoam (reducing use of straws, biodegradable disposables, etc.) (n=6)
- 2. Replace old equipment with energy saving options (automatic lights, etc.) (n=6)
- 3. Research studies to support practices (i.e., infection control, plate waste) (n=2)
- 4. Communicate to leadership budget justification of energysaving (n=2)

In summary...

Important barriers exist that are specific to imple each of a broad variety of sustainable food service practices.

For practices that impact the patient, it is pertinent to consider patient demographics, preferences, and involvement in decision-making.

This study was able to identify and summarize the "low-hanging fruit" for implementing sustainability practices with time and resource limitations.



Facilitators

Leadership support (n=3)

Prioritization &

goal setting, personal

investment (n=2)

Practice doesn't impact the customer (n=2)

Work with prime vendor to

identify compostable products

(i.e., US foods



Next steps...

Action can be taken by interested organizations, Workgroups, & advocacy groups to inform resources and policy promoting hospital's sustainability practices.

Future research is warranted to determine implementation of sustainable food service practices in a larger, representative sample including VA and non-VA healthcare facilities.

References: [1] Food and Agriculture Organisation, editor Sustainable diets and biodiversity: direction and solution for policy, research and action. Proceedings of the International Scientific Symposium: Biodiversity and Sustainable Diets United Against Hunger; 2010; Rome: FA. [2] Eckelman MJ, Sherman J. Environmental impacts of the US health care system and effects on public health. PloS one. 2016 Jun 9;11(6):e0157014.

Barriers

Feeling that they are unable to

influence energy usage or is out of

their control (food service uses a

lot of energy, not sure how,

building is old, would be up to facilities, not a priority) (n=7)

Investment of time/effort/money

(for technical upgrades, staffing

problems) (n=7)

This lay summary was prepared on behalf of the NOPREN Food Service Guidelines Workgroup by: Bethany D. Williams, Stephanie Jilcott Pitts, Steve Onufrak, & Emma Sirois.

Support for this [product] was provided in part by Cooperative Agreement Number (U48DP006374/ACL/ACL HHS/United States) funded by the Centers for Disease Control and Prevention's Division of Nutrition, Physical Activity, and Obesity (DNPAO) and Prevention Research Centers Program, which includes the Nutrition and Obesity Policy Research and Evaluation Network (NOPREN). The findings and conclusions in this product are those of the author(s) and do not necessarily represent the official position of the CDC or DHHS.

COVID-19 (disposables to prevent spread, labor shortage) (n=3)	(i.e., US foods representative) (n=1)
"Yeah, we're limited on what we can purchase. Covid, is exactly you know. Yeah, we were Styrofoam free until that's all you could buy."	"Yeah, a lot of facilities have a capital planning committee, and you kind of go there and, like, pitch an idea. [] I think every year that I pitched something for equipment or electrical upgrade, they did it and it may not have happened the next year, but they approved it."
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