The UnProcessed Pantry Project Framework to Address Nutrition in the Emergency Food System

Low-income populations suffer a greater burden of chronic diseases and food insecurity, are more likely to consume ultra-processed food, and are less likely to meet dietary recommendations than the general population.1,2 Ultraprocessed food is manipulated with artificial ingredients and can be high in sodium, caloric sweeteners, and saturated fats and, thus, has deleterious health effects.3 The NOVA framework, created by Monteiro and colleagues,3 is commonly applied to public health research to characterize food processing at different levels (unprocessed, minimally processed, processed culinary ingredients, processed, ultraprocessed).3,5 In the United States, ultra-processed food typically is accessible, affordable, and convenient, whereas minimally processed food typically is more difficult to access, expensive, and less convenient.1,4

Over time, the availability of ultraprocessed food has increased across the global food supply and in the diets of individuals worldwide, especially among low-income populations.3,5,6

NUTRITION IN THE EMERGENCY FOOD SYSTEM

From a social–ecological perspective, addressing food insecurity and preventing chronic disease requires targeted efforts from various sectors to achieve positive dietary and health outcomes.4 The emergency food program and over time incorporate the cost of those activities into their education sector plans. For 65 of the poorest countries, education sector plans are eligible to receive resources from the Global Partnership for Education, a multibillion-dollar fund.

The use of CHWs is a key strategy used to address the acute shortage of health workers. EYElliance will work with ministries of health to position these CHWs as frontline providers of primary eye care. They can be trained to screen for presbyopia, the most common vision problem and, when appropriate, dispense ready-made near-vision glasses for free or at low cost. Individuals with more advanced vision problems are referred upstream into the eyecare system.

EYElliance members have systemized best practice models to deliver eyeglasses via both school- and CHW-based models. We are actively engaged in a pilot program with the Ministries of Health and Education in Liberia to embed the models into a national plan to scale countrywide; if successful, we hope to replicate the model regionally and, ultimately, globally.

For the private sector, our strategies include creating an inclusive optical sector and mass distribution via last mile retailers: those final destination points where billions of the rural poor source all manner of products. EYElliance is working with these retailers and those that serve them—last mile distributors—to ensure ready-made near-vision glasses are ubiquitously available. Our members have proven models of how to ensure these distributors and retailers successfully integrate eyeglasses into their product offering.

Our long-term objective is to help create a significant number of profitable inclusive optical businesses. This will demonstrate to investors that they can simultaneously make a profit and support development. If that can be achieved, international finance institutions and impact- and market-based investors will deploy greater amounts of capital to catalyze growth of the optical sector.

It is possible to create a world where no child falls out of school or adult loses his or her livelihood because of a lack of eyeglasses. With 60 committed members, budding interest from the US and UK governments, and private sector actors stepping in to play primary roles in solving the problem, there is promising evidence that uncorrected refractive errors can be eliminated as a leading cause of visual impairment and blindness. 

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CONFLICTS OF INTEREST
The author has no conflicts of interest to report.

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system operates as a sophisticated network of food banks, food pantries, soup kitchens, and other emergency food programs to provide food for millions of food-insecure and low-income Americans (Figure A, available as a supplement to the online version of this article at http://www.ajph.org). Food banks and food pantries acquire food and beverages through donations and purchases from individuals, food retailers, farmers and processors, national companies and organizations, and federal commodities. Food pantries typically distribute food to clients. A food pantry client’s dietary quality relies on the food and beverages made available in the food pantry, as well as any food and beverages acquired outside the pantry setting. Food offered at food pantries can range from ultraprocessed to unprocessed, and for many food pantries, the nutrient quality of the food supply is not consistent, which has implications for a client’s ability to maintain a healthy diet.

Because of growing numbers of food pantry clients with documented health disparities, a need has been noted for more documented health disparities, a need has been noted for more consistent supplies of nutritious food in the emergency food system, both nonperishable and perishable. The “working poor” are a growing population of US households that experience food insecurity and often do not qualify for federal food assistance programs, such as the Supplemental Nutrition Assistance Program. This population increasingly relies on emergency food to make ends meet. The acute severity of this need was underscored in a different population during the 2019 US government shutdown, when an influx of furloughed government workers without paychecks turned to the emergency food system, including food pantries, to meet their food needs.

Organizations across the emergency food system have adopted nutrition frameworks to encourage the donation and purchase of more nutritious food at food banks and food pantries. These nutrition frameworks focus on encouraging food pantries to source certain food from broad categories (e.g., cereals, vegetables) and monitor levels of key nutrients in each category (e.g., sodium, saturated fat). These nutrition frameworks can be used to promote more nutritious donations and purchases of food that target broad food categories and specific nutrients, but they have lacked in their translation for use across stakeholders, including food pantry clients.

Because of the complexity of food choices, food banks, food pantries, clients, and other stakeholders in the emergency food system need a framework in which to understand the differences across the processing levels of various food types. Food pantries offer a critically important setting in which to supply a broad range of nutritious food, perishable and nonperishable, and to limit ultraprocessed food. A new framework is needed to help create a food supply in the emergency food system that limits ultraprocessed food when possible, promotes the availability of nutritious perishable and nonperishable food through acquisition and policy, and supports food justice that improves the compromised nutrition and health needs of food pantry clients.

**A NEW FRAMEWORK FOR THE EMERGENCY FOOD SYSTEM**

Ultraprocessed food has become ubiquitous across food environments, including food pantries. Consequently, low-income populations disproportionately consume ultraprocessed food, which may contribute to an increased prevalence of nutrition-related chronic diseases. To address this disparity, we developed the UnProcessed Pantry Project (UP3) framework by adapting the NOVA framework and policy, and supports the overall food system.

Organizations can use UP3 to guide changes in the food supply and inform individuals to make more nutritious food choices. UP3 (Figure 1) is different from the NOVA framework in that it divides food into unprocessed and ultraprocessed categories and labels them to help consumers and food pantries distinguish ultraprocessed food from all other food. The unprocessed food category includes fresh food, pantry staples, and prepared food subcategories. The prepared food subcategory diverges from the processed food category of the NOVA framework by highlighting lightly prepared and heavily prepared food. Differentiating prepared food aids pantries and clients in distinguishing between food that is lower or higher in sodium, added sugar, and saturated fat—key nutrients that affect dietary quality. Ultraprocessed food does not have subcategories. Consequently, the goal of UP3 is to limit ultraprocessed food, to provide a variety of unprocessed food in a food pantry’s food supply, and to be an educational tool for clients to learn about how to choose and consume more unprocessed food. UP3 provides examples of food, recommends amounts for clients to consume and for the food pantry to stock and encourage in the food supply, and was written at a reading level that can be comprehended by diverse stakeholders. Food can be classified by examining the nutrition label and ingredients list on a packaged food.

**TOWARD A MORE EQUITABLE FOOD SYSTEM WITH UP3**

To make progress on decreasing health disparities among food-insecure populations, the overall food system needs to confront equity in the nutrient quality of food in the emergency food system.

The emergency food system has evolved from an ad hoc stopgap system to address cyclical food insecurity to one that increasing numbers of households rely on to make ends meet. Food pantries may hesitate to discourage donations of any type of food because of the possibility that donors stop or decrease donations, client choice is limited, or the demand to address hunger is unmet. Clients are responsible for selecting or accepting, consuming, and preparing food. The promotion and donation of nutritious food, along with nutrition education for clients, should be seen as investments in client health.

Economic challenges and widening income disparities have led to an increased reliance on the emergency food system, especially
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C. Byker Shanks conceptualized and designed the UnProcessed Pantry Project (UP3) framework, wrote the editorial, and managed revisions. E. Weinmann, J. Holder, M. McCormick, C. A. Parks, K. Vanderwood, C. Coburn, N. Johnson, and A. L. Yaroch provided input into the design of the UP3 framework and revised the editorial for important intellectual content. A. L. Yaroch provided project mentorship.

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