

Tulane research team examines the relationship between food insecurity and food assistance programs in Peru

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Blanca Delgado with Asociación Benéfica PRISMA, Jessica Brewer, a SPHTM alumna and was a Fulbright Scholar at the time of the study, and Rafael Duran and Nelly

Briceño with Asociación Benéfica PRISMA review maps of Lima, Peru.

A Tulane team of researchers examined the relationship between food insecurity, the limited access to foods due to economic constraints, and the use of food assistance programs (FAPs), such as community kitchens and the school breakfast program in Lima, Peru.

The Tulane research team was made up of [Dr. Pia Chaparro](#), an assistant professor in the Department of Social, Behavioral, and Population Sciences, [Dr. Valerie Paz-Soldan](#), director of the Tulane Health Office of Latin America, Jessica Brewer (MPH GCHB '18), Maria Patrizia Santos (BSPH '19, MSPH BIOS '20), and Miguel Angel Lopez, a doctoral student in Social, Behavioral, and Population Sciences. The study entitled "[Use of Formal and Informal Food Resources by Food Insecure Families in Lima, Peru: A Mixed-Methods Analysis](#)," with lead author Jessica Brewer, was recently published in *The Journal of Community Health*.

In 2019, 200 billion (over 25%) people worldwide experienced moderate or severe food insecurity. Food insecurity is linked to several adverse nutritional outcomes, such as wasting and underweight, stunting, and overweight/obesity. The type of food assistance that families have access to can mitigate the effects of food insecurity.

In Peru, food insecurity is not routinely measured in national health surveys. However, studies have shown that severe food insecurity has increased in recent years, particularly among urban low-income families. The Peruvian government funds several FAPs to address food insecurity and other nutritional concerns. These operate primarily in low-income neighborhoods and are partly managed by community members.

In June and July 2019, the Tulane team collected data from 329 randomly selected households in Villa El Salvador, a low-income district in Lima, Peru. They found that 77.2% of these households experienced food insecurity, 38.3% of which experienced severe food insecurity. In addition, the percentage of households using FAPs increased with increasing levels of food insecurity. Still, the community kitchen program and the school breakfast program were heavily used by families regardless of degree of food insecurity. Similarly, informal food resources, such as buying food on credit or receiving food from someone outside the household, were incrementally used with increased levels of food insecurity.



Photo - Front Row: Nelly Briceño -- Asociación Benéfica PRISMA, Blanca Delgado -- Asociación Benéfica PRISMA, and Maria Patrizia Santos, MSPH -- currently PhD student in Epidemiology (MSPH student in Biostatistics at the time of the study).

Back row: Rafael Duran -- Asociación Benéfica PRISMA, Jessica Brewer, MPH -- currently Monitoring, Evaluation & Learning Coordinator at the Louisiana Public Health Institute (was a Fulbright Scholar at the time of the study), and Miguel Angel Lopez, MPH, RD, LDN -- currently PhD student in Social, Behavioral, and Population Sciences.

The main reasons families use FAPs included financial need, already being signed up in the program, and believing that the food was nutritious. Conversely, the main reasons for non-use were finding the program unnecessary, dislike or perceived poor quality of the food, and not being able to sign up for the program.

The study clarifies the relationship between the level of household food insecurity and FAP use – FAPs more commonly used by food-insecure households were used

because of financial need. In contrast, the FAPs most frequently used by secure food households were those with automatic enrollment.

The results suggest opportunities to make food assistance programs more effective in addressing food insecurity, including providing nutritious and preferred foods and standardizing the application of program enrollment criteria. This research is increasingly pertinent as food insecurity has increased in Peru during the ongoing COVID-19 pandemic.

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