

Bolivian forager-farmers with amazing heart health are split over what makes a good life

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A Tsimane' man floats palm thatch roof panels on a balsa wood raft down the Maniqui River for sale in the market town of San Borja, Bolivia (2013). Credit: Juan Pablo Ticona-Contreras



A small Bolivian society of indigenous forager-farmers, known for astonishingly healthy cardiovascular systems, is seeing a split in beliefs about what makes a good life. Some are holding more to the traditional—more family ties, hunting and knowledge of forest medicine—but others are starting to favor material wealth, a Baylor University study finds.

The timing of the divided beliefs among the Tsimane' people coincides with a shifting, more <u>market</u>-driven lifestyle over the past decade. That includes new forms of livelihood, rapid nutrition transition and increasing overweight and obesity, said study author Alan F. Schultz, Ph.D., M.P.H., assistant professor of anthropology at Baylor University.

"For the Tsimane', lifestyle may be at the heart of health," he said.
"Considering the changes underway, studying the role of culture and social life for the maintenance of health in this group matters more now than ever."

In his study, published in the journal *PLOS ONE*, Schultz spent more than a year collecting ethnographic and mixed-methods data in Bolivian Amazonia to understand the social and cultural lives of this heart-healthy group.

The Tsimane' are in the early stages of market integration with limited participation in the regional market economy. One of the most isolated of 36 Bolivian indigenous groups, their population has grown rapidly, from an estimated 6,000 people in the late 1990s to about 16,000 in 2015, according to national censuses. Their livelihood has stayed almost entirely subsistence-based, but as migrants and ranchers have moved into the area, Tsimane' have more opportunities to make occasional income from contract and day labor. That money is spent on things like medical care and tools but also on processed foods.



Market integration is not limited to purchasing market items but extends to most other aspects of lifestyle, such as entertainment (listening to outside music over traditional flute music); health care (using biomedicine vs. forest medicine); and seeking out Western education, rather than staying in one's birth community.

Schultz sampled residents from two pseudonymous Tsimane' communities: Ají (a village near a highway and river, located roughly two hours from the nearest market town) and Serrucho, a river village located eight-plus hours up-river by motorized canoe from Ají.

He interviewed 101 individuals ages 15 to 75 in their native language (about one quarter of the qualified population in the two communities), first collecting lists of everything needed for "the good life" in each community, then merging these and getting participants to rate which items mattered most to them.





A Tsimane' mother, Carolina, with her infant child after painting him with plant dye in a practice believed to help protect children from sickness (2012). Credit: Juan Pablo Ticona-Contreras

These ratings produced a lifestyle model that includes 38 wide-ranging items, among them child care, education, listening to radio news, electronics, gas stoves, weaving cotton carrying bags, home-brewed beer, cultural ceremonies, traditional flute music and implanting a pebble charm under the skin, believed to aid the senses for success in hunting.

In the study, three dimensions proved key to understanding Tsimane' differences in beliefs about lifestyle: gender; traditional versus market-based items; and the types of wealth that respondents deemed necessary for a good life.

- In the first dimension, women tended to have more accurate knowledge of market lifestyle ideals but were more likely to reject aspects of social life that promote market integration such as getting help from people outside of the family or being friends with outsiders who may know how to help find paid work. These differences may be a result of lower rates of Spanish language skills among Tsimane' women.
- In the second dimension, despite being a largely subsistence-based society, 40 percent of participants top-rated lifestyle items were market-related, including manufactured tools, purchased livestock and education. When there was overlap with traditional approaches and customs, market alternatives typically were rated higher—for example, rifle hunting over bow hunting and Western education over staying in one's own community. Only traditional food items like crops, wild game and fish were



consistently valued over market alternatives.

• In the third dimension—forms of wealth viewed as necessary for a good life—Schultz identified a subgroup who deemed most traditional items just as important as market items, resulting in a blend of modern and traditional ideals he labeled a "syncretic" lifestyle. These participants tended to live farther from the nearest market town and come from households with less material wealth. For them, wealth is not only about money. Forms of non-monetary wealth rated higher by the syncretic group included social wealth and embodied wealth. Social wealth included larger family size, more shared support among family members and helpful neighbors. Embodied wealth included ethnobotanical medicinal knowledge and spiritual knowledge and practices, among them a yearly ritual to give thanks for the Peach Palm, which provides fruit and wood for traditional bows.

Schultz noted that even seemingly minor changes in lifestyle regarding types of wealth valued could lead quickly to disparities in material wealth and health in mostly egalitarian groups like the Tsimane'. An example is learning enough Spanish to sign a work contract or find wage labor.

"With the money earned, you can buy a small, inexpensive outboard canoe motor, making it easier to take part in more market activities and buy more processed foods," Schultz said.

The study benefits from a depth of investigation not always possible in other health and social surveys, Schultz said. While the Tsimane' are one of the most intensively surveyed small-scale societies of the past two decades—with more than 400 peer-reviewed articles published during that time—most are focused on large sample sizes and universal measures, rather than insider perspectives from the Tsimane.'



This new research considers Tsimane' worldview, revealing a greater complexity not possible in surveys alone, Schultz said. His future research will build on that foundation.

"Can the Tsimane' maintain their health if their lifestyle ideals change too much?" he said. "And does their <u>lifestyle</u> provide clues for how to lower cardiovascular disease risk, the leading cause of death worldwide?"

More information: Alan Frank Schultz et al, Status determinants, social incongruity and economic transition: Gender, relative material wealth and heterogeneity in the cultural lifestyle of forager-horticulturalists, *PLOS ONE* (2019). DOI: 10.1371/journal.pone.0220432

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