Introduction

Guatemala is a Central American nation with a large indigenous Maya population. According to recent surveys by the National Bureau of Statistics, 38 percent of Guatemalans self-identify as indigenous (MSPAS et al. 2009), although many groups contest that this number is far too low and reflects survey bias. Guatemala is also one of the most impoverished nations in Latin America, with the third lowest Human Development Index in the Americas (UNDP 2009). The indigenous segments of the population shoulder the brunt of this poverty. National health surveys show large disparities in health outcomes between the indigenous and non-indigenous populations (e.g., MSPAS et al. 2009). The World Bank has reported that although approximately 55 percent of the general population lives in poverty and 15 percent in extreme poverty, these numbers increase to nearly 80 percent and 30 percent for the indigenous population (Gragnolati and Marini 2003).

Of particular importance as a health indicator in Guatemala is the rate of child malnutrition. Guatemala has one of the highest rates of stunting (low height-for-age) in the world, and fully 56 percent of all malnourished children in Central America reside in Guatemala (World Bank 2010). In a recent national survey, 43 percent of children between three and 60 months of age were stunted, and the prevalence was 50 percent higher than this average in some rural indigenous areas (MSPAS et al. 2009). According to one independent estimate, the rate of stunting in indigenous children is twice that of non-indigenous children (World Bank 2008).

The Normalization of Childhood Disease: An Ethnographic Study of Child Malnutrition in Rural Guatemala

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Guatemala has one of the highest rates of child stunting in the world; the indigenous Maya population, who constitute a majority, are disproportionately affected in comparison to the general population. Nevertheless, research on the social dynamics of malnutrition in Maya communities is lacking. To address this deficiency, we present here an ethnographic study of caregivers’ experiences of child malnutrition in two rural indigenous towns, supplemented by quantitative data collection on rates of child malnutrition in both study sites. Our research documents the ways in which child malnutrition is a “normalized” total experience for communities and caregivers, heavily influenced by local and structural inequalities, and we explore the policy implications of our findings for effective child nutrition programming.

Key words: Guatemala, malnutrition, child health, ethnography, Maya, indigenous

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Child Malnutrition Research and Policy in Guatemala

Child malnutrition research in Guatemala is well respected in the academic community worldwide, largely due to the efforts of the large Instituto de Nutrición de Centroamérica y Panamá (Nutrition Institute of Central America and Panama or INCAP) cohort study, which began as a supplementary feeding program in several rural Guatemalan communities running from 1969-1977 (Martorell, Habicht, and Rivera 1995). Excellent longitudinal follow-up from the study has permitted a clear delineation of the intergenerational health and socioeconomic effects of early childhood supplementary feeding (Stein et al. 2008; Stein et al. 2009). One important outcome of the study has been
the definitive demonstration that the problem of child malnutrition in Guatemala is primarily one of chronic, endemic undernutrition (stunting or low height-for-age), rather than more acute wasting (low weight-for-height) or overweight (low weight-for-age). Similarly, the study demonstrated that the onset of faltering in height velocity occurs extremely early, often in the first year, and that full catch-up growth is often impossible to achieve (Ruel, Rivera, and Habicht 1995). In our own work, we have described how the onset of growth faltering is closely associated with the transition to complementary feeding around 6 months of age and is negatively correlated with caregivers’ financial stability and the availability of high quality infant foods (Chary et al. 2011; Chary, Messmer, and Rohloff 2011).

Effective child nutritional programs in Guatemala have been hampered over the years by a historical programmatic focus on school feeding programs (e.g., Nutrinet 2009), despite a lack of evidence as to the efficacy of these approaches for reducing rates of malnutrition. The roots of this emphasis on school nutrition date to the 1950s, paralleling efforts by wealthier countries to develop school-based domestic programs (Gunderson 2009) as well as the subsequent exportation of these programmatic priorities to Guatemala by major donors (Nutrinet 2009). However, the last decade has seen important changes in nutrition policies. For example, the World Food Program (WFP n.d.) has provided a corn and soy-based fortified supplement (Vitacereal) targeted primarily to infants and toddlers in rural communities. Additionally, there have been strong policy reformulations by major international donors, including USAID (2010, 2011a) and WFP, in favor of early childhood programs—“the first 1,000 days of life.” These reformulations have caught public interest (Gamazo 2011; Prensa Libre 2010a, 2010b), and they underpin the official efforts of the new presidential administration to formulate a national multisectorial early child nutrition policy (SEGEPLAN 2012).

These policy shifts clearly necessitate a renewed research focus on the knowledge, attitudes, and practices of caregivers and community leaders in their approach to child nutrition and illness. This is because the new attention given to infant and toddler nutrition programming will require more direct contact with individual caregivers than did school-based programming. Prior research in other areas of health programming, such as emergency medical services and obstetrical care, has clearly demonstrated how the acceptance and utilization of health programs by indigenous communities in Guatemala is strongly affected by local models of wellness, language barriers, and medical paternalism (Annis 1981; Berry 2006, 2008; Glei and Goldman 2000; Kestler 1995; Roost Mattias, Liljestrand, and Essen 2004). With one notable exception (Bennett 2009), the qualitative literature on indigenous child health in Guatemala is extremely limited and is focused almost exclusively on the elaboration of folk taxonomies of childhood disease (Burleigh, Dardano, and Cruz 1990; Pebley, Hurtado, and Goldman 1999; Scrimshaw and Hurtado 1988).

Aims and Scope of this Research

Against this background, we take up an ethnographic investigation of caregiver perceptions and experiences of child malnutrition in two rural indigenous communities. Our ethnographic data is supplemented by quantitative data collection on rates of child malnutrition in both communities, which helps to triangulate themes that emerge in the ethnography and also provide a concrete estimate of the magnitude of the “problem” around which the qualitative inquiry pivots. The proximal goal of the research presented here is to explore the social constellations in rural indigenous communities which shape views of child health and illness and which influence health care access behaviors. Ultimately, the programmatic goal of our research program is to improve community-based pediatric health programming in rural Guatemala. With this in view, here we demonstrate that the normalization of childhood disease and malnutrition in rural settings, as well as continued malfeasance and paternalism in the medical referral structure, are the major logistical barriers to effective pediatric programming.

Methodology

Site Description

Chi Poqol (see Table 1) is a rural agricultural community located in the department of Chimaltenango. The largest nearby city is San Juan Comalapa, a two-hour walk down a road which does not have any regular transportation. All 325 residents of the community are indigenous Maya who speak Kaqchikel and Spanish. Most inhabitants have small land holdings and grow a mixture of household staples and commodities for local sale. Men often supplement income through employment in construction or as unskilled laborers. Fifty percent of the population lives on less than $2 per day.2

K’exel (see Table 1) is a rural agricultural community located in the Piedmont region of the department of Suchitepéquez. The largest nearby city is Mazatenango, which is located a half-hour bus ride away. The majority of the 500 village residents are indigenous Maya who speak a mixture of Spanish, Kaqchikel, and K’iche’. Nearly all local land belongs to plantation owners, and the majority of K’exel’s residents work as day laborers, either on plantations or as construction workers. Frequent unemployment is common with 28 percent of households living on less than $2 per day.2

Ethics

All work was conducted under the auspices of Wuqu’ Kawoq, a health services NGO working in both K’exel and Chi Poqol at the request of the respective communities to establish child nutrition programs. The authors are all current or former staff or volunteers for Wuqu’ Kawoq, Chi Poqol, K’exel, and names of informants are all pseudonyms. Local site approval and ethics review was provided by Wuqu’
Kawoq’s institutional review board. The project was also approved by the institutional review board of Partners Healthcare (Boston, Mass.). Verbal informed consent was obtained prior to data collection, and particular attention was paid in the consent process to advising participants that failure to participate in the study did not jeopardize inclusion in Wuqu’ Kawoq’s programs.

**Anthropometry**

Anthropometric data were collected with the help of trained community assistants using standardized methodologies (Cogill 2003). Data were collected in November 2008 in K’exel and in January 2010 in Chi Poqol. A dedicated team of community assistants in each of the two sites participated in an intensive three-day training led by the authors, in which they learned how to obtain accurate weights and heights on study participants. Anthropometric data collection was supervised and verified at all times by one of the study authors. Weights were collected using either an electronic infant and toddler scale (Salter model 914, Salter Brecknell, Fairmont, Minn.) or a hanging scale (Salter model 235, Salter Brecknell, Fairmont, Minn.). Heights were obtained using a stadiometer constructed locally according to established guidelines (Contreras Rojas and Palomino Hamasaki 2007). Anthropometric data were obtained on children aged six to 59 months, and 100 percent coverage of all children in both study sites was obtained. Height/length-for-age (HAZ) and weight-for-age (WAZ) Z-scores were calculated using the World Health Organization (WHO) Growth Standards Database for children under five years of age (De Onis et al. 2006) using the WHO Anthro program (WHO, Geneva). According to WHO standards, stunting was defined as a height-for-age z-score (HAZ) of more than –2 standard deviations and underweight as a weight-for-age z-score (WAZ) of more than –2 standard deviations from the international reference population.

**Poverty Scores**

The Quick Poverty Score (QPS) Toolkit for Guatemala (MEASURE Evaluation/USAID) was used to obtain relative poverty scores, and the accompanying look-up table was used to convert scores to poverty likelihood based on the World Bank poverty lines of $1 per day and $2 per day. Although simple measures of poverty are never ideal, particularly in a partial subsistence economy like rural Guatemala, the QPS has previously been validated against a large national poverty data set (INE 2007) and is widely used by development organizations in Guatemala, especially in the microfinance industry.

**Ethnography**

From July 2008 to July 2009, study investigators conducted in-depth interviews with 73 mothers in K’exel and engaged in community events as participant-observers on a nearly daily basis. From January 2010 through June 2010, this work was replicated in Chi Poqol with all 38 mothers. Interviews were unstructured and open-ended, ranged from 40 to 180 minutes, conducted in participants’ homes, and covered the following topics: child care and feeding practices; food security and diversity; understandings of child malnutrition, health, and illness; patterns of health care seeking for children’s illnesses; and experiences of infrastructure lack and poverty. Additionally, the two study investigators who are physicians (SD and PR), conducted clinical intake interviews in Wuqu’ Kawoq’s clinical facility with all female caregivers to discuss child feeding practices and medical status. Most interviews were not recorded due to the preferences of participants. Transcripts of recorded interviews, field notes from participant-observation, and extensive notes taken throughout and immediately after non-recorded interviews form the basis of the ethnographic data. Authors coded these texts using an inductive approach to search for themes relating to structural and social determinants of child malnutrition (Bernard 2011).
Results

Quantitative Assessment of Child Malnutrition in K’exel and Chi Poqol

The frequency distribution of HAZ and WAZ for all child residents of K’exel \((n=87)\) and Chi Poqol \((n=39)\) between six and 59 months of age are represented in Figures 1A and 1B, respectively. Mean WAZ score was \(-1.25\) (95 percent confidence interval \(-1.48\) to \(-1.01\)) in K’exel and \(-1.47\) (95 percent confidence interval \(-1.68\) to \(-1.27\)) in Chi Poqol, giving a prevalence of underweight of 24 percent and 34 percent respectively. Mean HAZ score was \(-2.32\) (95 percent confidence interval \(-2.59\) to \(-2.05\)) in K’exel and \(-3.09\) (95 percent confidence interval \(-3.30\) to \(-2.89\)) in Chi Poqol, giving a prevalence of stunting of 71 percent and 87 percent respectively. There were no cases of wasting (low weight-for-length) observed. Data are summarized in Table 2.

Malnutrition in the Home: The Deprioritization of Child Health in Resource-Poor Conditions

Elvia is a shy young woman in her late twenties from Chi Poqol. She tends to avoid group interactions, always hanging on the edge of the crowd of other women when they gather for social events. When she was a small girl, a pot of boiling water fell on her head. Lacking adequate access to medical care, her burns were never adequately treated. She now wears a low head scarf to conceal the extensive, disfiguring scars on her scalp and forehead.

Elvia has five young children and is several months pregnant with another. Together with her children, she lives in a poorly constructed dwelling with an earth floor and an open hearth that fills the home with smoke. Her home lacks a toilet or latrine, leaving her family to perform their necessities in the campo abierto (open field). Although Elvia is married, her husband has recently taken up with another woman in the nearby town of San Juan Comalapa; he splits time between the two homes although increasingly spends more time away from Elvia. The amount of money that he provides to Elvia for household expenses (gastos) has now almost entirely dried up, given that he is now providing for another household as well.

Based on our anthropometric survey, Elvia’s children are some of the most severely stunted children in Chi Poqol. She admits that food is limited at times, and she relies heavily on Incaparina (a gruel-like food supplement) that she receives from the development program in Chi Poqol. However, even cooking Incaparina for her children has recently become a challenge, as her husband no longer provides sufficient money to her to buy fuel for her wood fire or sugar to sweeten the Incaparina and make it more palatable. Indeed, on a recent trip home, her chronically cash-strapped husband confiscated her monthly allotment of Incaparina that she had just received and took it into town to sell. When we asked her how her children’s health was holding up under this stressful situation, she replied, “Okay. They are okay. They are not coughing. They don’t have fever.”

Other women in difficult situations akin to Elvia’s approached their children’s health in similar ways. Berta, an 18-year-old mother of two, was successively abandoned by two husbands. Unable to work while raising her three-year-old son and one-year-old daughter, she resorted to living with her parents, who, though embarrassed of her status as an unwed single mother, took Berta into the one-room house in which they live with their other six children. To contribute to the household, Berta alternates between gathering firewood and tending to the children.

On many days, Berta and her children subsist on café de tortilla, the liquid portion of day-old stale corn tortillas boiled in water. Berta’s two children frequently contract acute illnesses. Over the course of repeated household visits and clinical consultations, we noticed that Berta’s children were often listless and did not engage in vigorous play like the children from the neighboring home. Berta seemed to have accepted her children’s lethargy as their baseline of health: when asked how her children were faring, she responded, “They haven’t had diarrhea today.”

Although both Elvia’s and Berta’s trying social circumstances and stigmatized positions severely circumscribed the possibilities they envisioned for their children’s health, similar dynamics existed also in households that were comparatively well-off. For example, Bartola, the respected leader of a women’s group in K’exel, has a stable marriage with her regularly employed husband. In order to supplement his wages and help feed their eight children, Bartola has become involved with many microfinance projects. She and her children can often be found dekerneling vast quantities of corn, blending plants to make shampoos, and making handicrafts for sale in international markets. “Sometimes I think it’s not

| Table 2. Height-for-Age (HAZ) and Weight-for-Age (WAZ) Z-Scores in K’exel and Chi Poqol for Children Aged 6-59 Months |
|---|---|
| **K’exel \((n=87)\)** | **Chi Poqol \((n=39)\)** |
| HAZ | \(-2.32\) (95% CI: \(-2.59\) to \(-2.05\)) | \(-3.09\) (95% CI: \(-3.30\) to \(-2.89\)) |
| WAZ | \(-1.25\) (95% CI: \(-1.48\) to \(-1.01\)) | \(-1.47\) (95% CI: \(-1.68\) to \(-1.27\)) |
worth the effort,” she explained, of spending so much of her time and resources to constantly engage in these projects, “but we need to eat.”

For how economically stable the family outwardly appears, Bartola’s children are surprisingly malnourished. On several occasions, when local staff members have informed Bartola of her children’s checkups with physicians, she has suggested that other village children see the doctors instead: “But why? Mine are not sick right now. They haven’t had diarrhea or cough.” When her children do attend the clinic, they often do so accompanied by an older sister, as Bartola is frequently too occupied with her various micro-lending-related entrepreneurial activities.

Gender Inequalities and Constraints on Caregiver Agency

Florentina’s only child had chronic diarrhea and had stopped growing. His case frustrated the physicians involved in his care, who ordered tests and provided medicines each time Florentina brought him to the clinic in K’exel, but Florentina and her son would miss their follow-up appointments. Months later, Florentina would reappear, explaining that the diarrhea had persisted since the last visit. Several local staff members remarked that they initially interpreted Florentina, a quiet woman in her early 20s, as indifferent and irresponsible. However, after about one year of participating in the program, she stoically disclosed to one of the authors: “My husband does not want me to go to the clinic. He does not want me to leave the house,” not even to bring their son to the doctor. Florentina periodically managed to slip away when her husband was gone. As she relies on her husband’s salary to buy food and lives in his parents’ home, she must obey in order to guarantee economic security for herself and her child.

Florentina’s situation is by no means the exception. In K’exel and Chi Poqol, mothers rely on husbands to provide gastos, a portion of their salary, to buy everything from beans to firewood. However, from both our observations and as endorsed during interviews with female caregivers, many men spend their week’s wages on extramarital affairs, alcohol, and sports (cf. Ehlers 2000; Menjivar 2011). Delmi, for example, resorted to selling her own clothes in order to feed the children. “I don’t care if I have nothing to eat. But what about the children?” she asked us. Remarking about the tragedy of the situation, Delmi’s sister Lidia showed us an aging photograph of a plump and rosy-cheeked 18-year-old Delmi, a stark contrast to the gaunt 23-year-old we knew.

“We Didn’t Know We Were Malnourished”: The Normalization of Childhood Disease

There is a small women’s cooperative in Chi Poqol, dedicated to improving living conditions and economic prospects in the community. Through the cooperative’s contacts in the nearby municipality of San Juan Comalapa, they reached out to our NGO in late 2009, which had a presence in Comalapa, soliciting help for their community. The authors of this paper participated at those initial meetings, at which time mutual interest in maternal-child health was articulated. We suggested performing a baseline assessment of child nutrition as a way to begin defining need; those results are presented in part here (Figure 1, Table 2). After the baseline assessment, we held a series of informational sessions with the cooperative, in which we explained the overall problem of stunting and described its overwhelming prevalence in Chi Poqol. At one of these sessions, Teresa, the leader of the cooperative expressed the group’s consensus of alarm and surprise: “We didn’t know we were malnourished. We thought it was normal to have short children, and no one told us differently.”

This was a common sentiment in both Chi Poqol and K’exel. During interviews, when women were asked if they thought their children were malnourished, many stated that Guatemalan children are simply short compared to children in other parts of the world, but not necessarily malnourished. “A little sweater for a 6-month-old baby in the United States is what fits a 1-year-old child here,” one woman told us. “Porque somos chapines, asi son nuestros cuerpos.” (“Because we are Guatemalans, that’s how our bodies are”). Many caregivers of K’exel were shocked, as Teresa was, to find out that their children were considered “malnourished” as we explained their children’s growth curves during clinical consultations. One mother, whose infant son was severely stunted, traced her finger between the data point that plotted her son at several standard deviations below average. “You mean he’s below this red line, but he’s supposed to be at this black line?” she asked in disbelief.
Chi Poqol’s cooperative, in response to the newfound knowledge that the children of the village were indeed malnourished, suggested the development of a community-based nutrition campaign to aggressively screen for stunting in young children. With our technical assistance, Teresa and the other women in the cooperative learned how to weigh and measure children, and they conduct monthly screenings of all children in the community that are coupled with educational sessions on breastfeeding, infant care, and dietary diversity. This community-based program is complemented by monthly visits from physicians, who perform well child checkups and examine children who have been identified by Teresa and others as not growing well.

Early on in this clinical setting, which has been ongoing since early 2010, clinical questions designed to sort out the cause of malnutrition and acute disease, such as “How long has the child had a cough?” or “How often does the child have loose stools?” were often met with blank stares. At first, we assumed that this was because this line of biomedical inquiry was unfamiliar to caregivers, as others have claimed (Pebley, Hurtado, and Goldman 1999); however, we quickly came to realize that it was rather the notion of a period of time without

Figure 1. Frequency Distribution of Height-for-Age (Gray Bars) and Weight-for-Age (Black Bars) Z-Scores for Children 6-59 Months of Age in K’exel (A) and Chi Poqol (B)
symptoms that was completely foreign. Similarly, in K’exel, we found that caregivers were often stumped by the question, “When did your child’s diarrhea begin?” While mothers could provide nuanced descriptions about their children’s diarrhea regarding color, texture, smell, consistency, and volume, they were rarely able to pinpoint the onset of sickness. A common response this question elicited was, “Hace ratos,” a phrase that, in this context, means anything from “moments ago” to “since a long time ago [for months].” Notably, the tone of clinical encounters has changed dramatically as the incidence of acute childhood disease has dropped, through the efforts of both community-based programs and water sanitation projects. Now, typically, a question like “How have things been since the last time we saw your child?” will provoke a brief summary of major health events over the last few months (colds, fevers, diarrhea) before the mother quickly turns to the pressing issue at hand, “But that’s not so important. How is my child growing?”

“Not Being Attended”: Health Care Inadequacies and Untreated Childhood Disease

“No me atendieron,” Diana charged, “I waited all day, and they didn’t attend to me.” Her child had stopped eating after two weeks of diarrhea and a cough; she had taken the bus to the government health center closest to K’exel at 7:00 a.m. and had returned home eight hours later. She was upset that the doctor had not performed a physical exam of her child; instead, after a brief interview, he had sent her off to the pharmacy to buy an expensive medicine, “infant cough syrup.”

The complaint that one has “not been attended” is a common expression reflecting dissatisfaction with services at health posts and national hospitals. Mothers describe spending all day waiting in line at the health center, only to be sent home at the end of the day. Sandra, a K’exel mother of six, no longer took her son to the health center for his repeated ear infections because if she had the luck of making it into a consultation, the outcome would be a prescription for an antibiotic, which she would have to purchase at a nearby pharmacy. “What’s the point of losing my time? It’s better to just go straight to the pharmacy,” she said.

Others report bringing sick children to the hospital, only to be turned away. “It’s not worth it,” one woman noted. “Last time, the security guard at the front gate didn’t even let us in.” Some interviewees pointed to the recent case of a four-year-old girl from the community who had died of appendicitis. Her mother had taken great pains to hire a driver to take her to the hospital in the middle of the night, but hospital staff sent the pair home because no surgeons were available. Another one of our informants made an appointment for specialized testing for her severely malnourished child in Guatemala City. After spending more than a day’s salary to travel to the capital city, she was told that her appointment had been cancelled. Despite the fact that her contact information was on file for months before the appointment, no one in the hospital had bothered to inform her.

Berry (2008) describes how, in the department of Sololá, indigenous patients’ complaints of “not being attended” reflect long waiting times and unfilled therapeutic expectations due in part to lack of awareness of hospital and biomedical protocols. The prohibitive expenses of transportation, food, and medicine associated with “free” government health care also factor into this idiom of distress. However, in addition to the phenomena which Berry describes, in K’exel, “not being attended” especially refers to not being attended well or with dignity. Many women elaborate on the phrase with descriptions of how they are reprimanded or “shouted at” in health centers for their children’s illnesses—scolding which we have witnessed when accompanying patients to health centers and hospitals.

In one case, Joaquina, a mother who went to the hospital with a low birth weight newborn was scolded by the ladina (mixed racial descent) head nurse: “You didn’t take care of yourself during your pregnancy. Look at this malnourished baby! Why didn’t you eat anything while you were pregnant?”

Loudly, for the benefit of all the patients and family members in the waiting area, the nurse yelled at Joaquina for dressing the baby’s umbilical stump with ash—a common custom in the area—and pronounced the child critically ill.

Another young mother, Nanci, related that she had taken her baby to the hospital for seizures and severe weight loss. Upon her arrival, two nurses told Nanci it was her fault her baby was dying. Despite Nanci’s insistence that she had had monthly prenatal care, the hospital staff wrote in her record (as viewed by one of the authors) that she had never seen a doctor during the pregnancy. After these incidents, Nanci avoided taking her daughter to the hospital, fearing that clinical staff would again blame her for being a “bad mother.”

Many caregivers characterized health center and hospital staff as “very angry” people who “scold you.” One interviewee shared with us that she had taken to lying about her economic circumstances and child feeding practices to health center and hospital practitioners to avoid being scolded and shamed in public. Another mother, commenting about “not being attended,” stated: “Nosotras como mujeres indígenas somos muy discriminadas.” (“We as indigenous women are heavily discriminated against.”)

Discussion

In this paper, we provide new ethnographic data on child malnutrition from two indigenous hamlets in Guatemala, supplemented by a comprehensive anthropometric survey. Regarding the quantitative data, as demonstrated in Figure 1 and Table 2, rates of chronic undernutrition (stunting) were extremely high at 71 percent and 87 percent in K’exel and Chi Poqol, respectively, whereas rates of underweight were much lower and no cases of wasting were detected. These results are consistent with the contemporary understanding of the dynamics of malnutrition in the rural highlands of Guatemala: chronic malnutrition is a significant public health burden, but acute forms of malnutrition are relatively absent.
At the same time, the women of Chi Poqol and K’exel are much higher than the national average of 43 percent (MSPAS et al. 2009) and three times higher than rates in one recently published contemporary non-indigenous cohort (Stein et al. 2009). These quantitative results are an important prequel to the ensuing ethnography, serving to set the stage and focus lines of inquiry. The sheer pervasiveness of the problem serves as an internal quantitative validation of the themes of hopelessness, restricted agency, and normalization of illness that emerge in the ethnography.

Our ethnographic case studies explore the social constellations that influence the poor child nutritional outcomes described by our quantitative data set. First, we demonstrate how local factors conspire to deprioritize child health in the home (cf. Biehl 2005). Elvia and her children live in low quality housing in a state of extreme poverty and food insecurity, a situation strongly influenced by her husband’s behavior. Beset by her own pregnancy, as well as the diseases of her many children, the pressing needs of gathering food and fuel compete for her limited physical and emotional resources. She is further isolated by the shame of her disfiguring burn scars, avoiding the company of other women who might otherwise serve as a source of solidarity and logistical support. Berta is similarly situated at the nexus of extreme poverty, chronic hunger, and a marginalized position as an unwed single mother, which severely restricts her interpretation of the possibilities for her children’s health. The case of Bartola, who is relatively better positioned in terms of community standing and social support from her husband, demonstrates how, nevertheless, child health becomes deprioritized in the home as women find themselves overwhelmed by other domestic and economic needs.

Second, we explore how narrowly circumscribed gender roles negatively impact child health. Florentina cares deeply for her son and is invested in improving his health, but the priorities of ensuring a tenuous economic and physical security subsume her ability to attend to her child’s chronic diarrhea. There is an extensive literature in Guatemala on the ways in which women’s choices are restricted by their relationships to men (e.g., Carey 2001; Chary et al. 2011; Chary, Messmer, and Rohloff 2011; Ehlers 2000; Menjivar 2011; Metz 2006). The cases of women like Florentina and Delmi are extreme in some ways, but broadly normative at the same time. Indigenous women in rural Guatemala often struggle to fulfill multiple roles—wife, homemaker, caregiver—and to take care of their own health in the face of microlocal inequalities, or “everyday violence” (Scheper-Hughes 1993), as well as the trickle-down effects of supra-local structural inequalities (Farmer 2005). Political-economic inequalities and neoliberal restructuring—which occasion the burgeoning of informal economies, severe underemployment, and a retraction of social services—underpin the endemic poverty that restricts women’s effective agency in these very roles (cf. Farmer 2004; Galtung 1990; Scheper-Hughes and Bourgois 2004). At the same time, the women of Chi Poqol and K’exel are routinely subject to unequal power relations at the local level of the community and the household and endure husbands’ infidelities, addictions, and abuse. In the zero-sum game of limited maternal energy inputs and multiple demands, child health is relatively deprioritized, vis-à-vis other equally urgent needs (see also Menjivar 2011). Expectations for child health are necessarily lowered: “They are not coughing. They don’t have fever.”

As Sen (1994:125) writes, among the world’s poor, there is “acceptance of greater discomfort and illness as part of the prevailing mode of living.” Such attitudes reflect what Bourdieu (2000) refers to as “symbolic violence,” through which traditional arrangements of inequality become inscribed in oppressed people’s ways of thinking and behaving such that they no longer question injustices of the existing social order. In the Guatemalan setting, this dynamic becomes apparent as childhood disease is normalized as part and parcel of the everyday landscape of poverty and struggle. Women like Elvia and Berta come to accept their children’s poor health as a baseline, and because their children have never been any healthier, they do not aspire for a model of child health beyond the limits of their daily experience (see also Cassidy 1980; Nations and Rebhun 1988; Scheper-Hughes 1993).

In our third case study, the theme of the normalization of chronic malnutrition emerges once again, but this time at the community level. Here, however, childhood disease is not normalized only because of low expectations of health in a resource-poor setting (Elvia, Berta) or constrained agency (Florentina, Delmi). Rather, disease is normalized also because of a generalized unawareness: “We didn’t know we were malnourished. We thought it was normal to have short children, and no one told us any differently.” Indeed, as our quantitative data validate, in Chi Poqol it is entirely “normal to have short children” (Figure 1, Table 2). Wholesale routinization of continual low-level childhood illness is the rule, as evidenced by the initial bewilderment on the part of caregivers in both Chi Poqol and K’exel when we attempted to tease out intercurrent disease timelines.

This finding is particularly important. Although others have documented an apparent failure of indigenous caregivers in Guatemala to grasp standard biomedical concepts, this has typically been interpreted as evidence of an alternative nosology among the Maya (Harvey 2008, 2011; Pebley, Hurtado, and Goldman 1999) and has given impulse to a large literature attempting to document folk etiologies of childhood illness (e.g., Burleigh, Dardano, and Cruz 1990; Pebley, Hurtado, and Goldman 1999; Scrimshaw and Hurtado 1988). As revealed here, however, at least in the case of child malnutrition, both our ethnography and quantitative data point to a more parsi-monious, sober, and less idealizing conclusion: namely, that pervasive social abandonment of the rural indigenous population and the widespread underdiagnosis and undertreatment of child malnutrition create a situation in which, quite simply, the absence of childhood illness cannot be imagined or articulated.

At the same time, the third case study also importantly demonstrates the ways in which the rural community serves as a productive social space for its inhabitants. Women in...
Chi Poqol are successfully filling the vacuum created by the sublimation of state services, effectively making linkages to private sector extralocal resources (cf. Biehl 2007). Their collective participation in child health projects has contributed to positive sociality and a greater sense of responsibility for the improvement of the whole community. For Chi Poqol, self-organization at the community level has even helped to overcome some of the isolating effects of the home; even Elvia, from our first case study, has now begun to participate in the cooperative’s activities, interacting and laughing with other women and sharing stories about her children.

Finally, we delineate the contributions of the peremptory treatment of child malnutrition in government health clinics to caregivers’ experiences of childhood disease. By analogy to the extensive ethnographic literature from Guatemala on indigenous women’s health and obstetrical care utilization (Berry 2006, 2008; Glei and Goldman 2000; Villatoro 2001; Walsh 2006), we document the ways in which caregivers and their children experience “not being attended” at the hands of the medical community. At the same time, our analysis extends the literature in new directions. In contrast to Berry (2006, 2008), who, from an analytic framework of multiculturalism, locates the phenomenon of “not being attended” primarily at the intersection of conflicting sets of therapeutic expectations, our data strongly corroborate the phenomenon of “being mis-attended” or malfeasance by health care providers. We interpret such malfeasance as a manifestation of both structural and everyday violence, as the “petty brutalities” (Bourgois 2004:426) of reprehending patients and denying them care emerge at the intersections of an underresourced, often inaccessible, biomedical system and a legacy of anti-indigenous discrimination encoded in national and local level hierarchies of race and class. Endemic medical mis-attention disincentivizes caregivers to seek medical care through fear of scolding, inattention, and accrued expenses, further reinforcing the normalization of childhood disease and malnutrition.

Conclusions

In this paper, we set out to analyze new data on child malnutrition from two indigenous communities in Guatemala. We have adopted here a combined qualitative and quantitative approach to illustrate the absolute significance of the phenomenon of child malnutrition and to explore social constellations that are important determinants of child health. Our case study highlights the ways that structural, everyday, and symbolic violence normalize childhood disease. Local power differentials, often taking the form of gender inequalities, as well as the competing priorities of quotidian subsistence struggles and systematic mis-treatment at the level of the medical referral infrastructure reinforce the normalization of child malnutrition. This setting dampens the social imagination of caregivers and communities, who struggle to conceptualize and articulate a vision of child wellness. As the women of the Chi Poqol cooperative demonstrate, communities remain resourceful and, when given the opportunity, can initiate the process of renormalizing wellness. Mutually respectful collaborations within communities and with extralocal private sector groups can challenge harmful ideologies, potentially leading to robust community-based actions that are a prerequisite for effective child malnutrition interventions in Guatemala.

Based on the findings of this study, the NGO we are associated with instituted several changes to its health programs. First, it increased social work staff and home-based visits in an effort to identify more quickly and respond to cases of social isolation among female caregivers. Second, it increased utilization of caregiver peer support groups as a method to improve social supports and “denormalize” child illness. Third, it instituted a program of medical accomplishment for cases referred to hospitals or other treatment facilities. Outcomes research on the effects of these measures on caregiver supports and child health are ongoing.

Notes

1 A high rate of endemic stunting is a distinct pattern of child malnutrition seen in certain areas of the world, like Guatemala, where health care and infrastructure are poor but where there are not particularly high burdens of periodic food insecurity (famine, drought, or armed conflict) or fatal infectious disease (malaria, tuberculosis, HIV). These latter factors are more likely to produce high rates of acute wasting or underweight, as seen in much of sub-Saharan Africa.

2 We used the Quick Poverty Score to calculate these numbers on the poverty line, as explained below in the Methodology section.

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