

The function of the botánica as a health care option in The Bronx

Jeanette Rodriguez, Department of Ecology, Evolution, and Environmental Biology, Columbia University Research Mentor: Ina Vandebroek, Ph.D., The New York Botanical Garden

Seminar Advisor: Matthew Palmer, Ph.D., Department of Evolution, and Environmental Biology, Columbia University



THE NEW YORK BOTANICAL GARDEN

Abstract

Plants and traditional medicine are used exclusively or in addition to conventional health care in immigrant communities. Immigrants may opt for traditional healers and plants for several reasons including familiarity, legal issues relating to immigrant status, and lack and/or cost of health insurance. The botalnica, a healing and religious shop, is a part of the traditional medicine practice but not well studied. A systematic survey of shops advertised as botalnicas was conducted across several neighborhoods in The Bronx. 12 botalnicas was conducted. across several neighborhoods in The Bronx. 12 botánicas were selected and surveyed through convenience and purposive sampling while scouting botánica locations to identify active shops. The botánicas surveyed had a mainty Latino background but service a mixed clientele, including different Latino groups and non-Latino groups. Only four of the most commonly mentioned plants (hierba buena, albahaca, menta, romero), which were common herbs, were easily accessible both fresh and dry in NYC grocery markets. The plants sold in botánicas are acquired in New York, from other states, and from different countries. Lastly, the most common conditions of well-being that clients seek help with at the botánica were orimarily spiritual related (ex. neadive enerox), followed with at the botánica were primarily spiritual related (ex. negative energy), followed by physical (ex. diabetes) and mental (ex. depression). Of the health conditions by physical (ex. diabetes) and mental (ex. depression), of the health continuous reported by the 2010 Community Health Survey, only depression and diabetes overlap with the conditions mentioned at the *botánicas*. Understanding how *botánicas* function as a health care option and who they service can lead to better patient-provider communication and a more holistic approach to health care

Introduction

Many immigrants settling in urban areas will retain their cultural patterns, values, and beliefs, including traditional or folk medicine practices. Urban ethnobotany is and beliefs, including traditional of not medicine practices. Orone enhibotions of an increasingly important area of study considering the growth in immigration and urbanization in the last few decades. With the potential contribution of traditional healers to health care in urban settings if essential to understand the state of traditional medicine knowledge and participation in this alternative to conventional health care. One aspect of this alternative health care is the botharios. Despite the reality that botharios are perior of health care for many people, particularly in Latino communities, studies rarely focus on them except to say they are suppliers of healting nordivers.

The first goal of this study was to characterize botánica staff and their clients. I expected that the botánica owners and staff would have a variety of backgrounds, including different Latino groups and non-Latino groups. Likewise I expected that these botánicas service a mixed clientele of various Latino groups and non-Latino groups. The second goal was to investigate the most commonly sold plants and groups. The second goal was to investigate me most commonly soil plants and their uses as well as the most common conditions of well-being for which people seek treatment. I expected that the majority of the most commonly mentioned plants would not be easily accessible in NVC outside of the botafnica. Lastly, I predicted the most common health conditions mentioned would be a combination of physical and folk illnesses (illnesses with a strong cultural component, ex. mal de ojo, susto). The latter would not overlap with conditions people seek conventional biomedical treatment for.



Methods

- Institutional Review Board protocol submission (IRB-AAAK4551; approved

- December 2012)

 Consent forms and a questionnaire were created in English and then translated into Spanish

 A survey of 12 botánicas was conducted throughout The Bronx, using convenience and purposive sampling

 Samples of the most commonly reported plants in each botánica were purchased, then were curated and identified at the New York Botanical Garden testionnaire.
- Characterize botánica according to the ethnicity or nationality background of its staff and clients, the types of products sold, the presence of a specialist or healer, and types of consultations offered
- Reasons for going to botánica Most commonly sold plants, their origin and uses
- Most common health conditions for which people seek treatment, plants used
- for treatment
 Comparisons:

 Visited 12 supermarkets and grocery markets around The Bronx using a check
 list compiled from interviews of all plants mentioned (116)

 Used data gathered by the NYC Department of Health and Mental Hygiene in
 a 2010 Community Health Survey to compare against information gathered on
 health problems

Results

- Characterization of the botánica
 Seven participants reported their botánica as specializing in "mainly spiritual/religious"
- issues, some physical complaints" Six botánicas had a plant specialist present, all 12 had a spiritual consultant present
- Demographics

 10 of the botánica staff were foreign born. Nine of the 12 participants were Dominican.

 Top reported nationalities of the majority of botánica clients were Dominican, Puerto
- Rican, and Mexican, top non-Latino nationalities or ethnicities reported include African Americans, Africans, white Americans, and Jamaicans

- Plants

 11 botánicas sold dry plants and nine sold fresh plants (Figure 2)

 Ruda, hierba buena, and albahaca were some of the most commonly sold plants for medicinal and/or spiritual uses (Table 1)

 All of the most commonly sold plants were reported as used in baños espirituales (spiritual baths) for spiritual cleansings (Figure 2). Some were used for physical ailments as well (hoja de narnaja), others were solely used in baños (abre camino). Outside of the botánica only 21 plants (of the 116 plants mentioned) were available fresh at a market, while 24 plants were available dry at a market. The following commonly sold plants were available both fresh and dry: romero, albahaca, hierba huena mente. buena, menta.

- . Health
 Culture, belief, and faith were among the primary reason for going to the botânica instead of a physician, along with lack of health insurance and cost of health care, number of times mentioned for these reasons varied between 3 and 7 Spiritual problems were the most common issue of well-being for which clients sought help (Table 2), including problems with luck, love, negative energy, and brujeria Only five health conditions were included in the Community Health Survey. Depression and diabetes overlap with the most commonly mentioned conditions at the botânica. High blood pressure and high cholesterol were each only mentioned once during the interviews and asthma was never mentioned.

Table 1. Most commonly sold plants and the number of times it was reported as a top common plant.

Plant Common Name		Scientific name	# of times
Spanish	English	(Family)	mentioned
Ruda	Rue	Ruta chalepensis L. (Rutaceae)	8
Hierba buena	Spearmint	Mentha spicata L. (Lamiaceae)	7
Albahaca	Basil	Ocimum basilicum L., Ocimum spp. L. (Lamiaceae)	6
Abre camino	"	Lantana camara L. (Verbenaceae)	5
Menta	Mint	Mentha piperita L. (Lamiaceae)	5
Quita maldición	"	Caesalpinia cf. bonduc (L.) Roxb. (Caesalpiniaceae)	5
Rompe saragüey	"	Chromolaena odorata (L.) R.M.King & H.Rob. (Asteraceae)	5
Espanta muerto		Baccharis cf. halimifolia L. (Asteraceae)	4
Hoja de naranja	Orange	Citrus cf. aurantium L. (Rutaceae)	4
Romero	Rosemary	Rosmarinus officinalis L. (Lamiaceae)	4

Table 2. Most commonly mentioned conditions of well-being for which people seek treatment or help at the botánica and the number of times it was reported as a top condition.

Conditions of Health and Well-being		
Spanish	English	mentioned
Problema espiritual/no físico	Spiritual/non-physical problem	17
Artritis/huesos/articulación	Arthritis/bones/joint	7
Ansiedad/nervios/problemas para dormir	Anxiety/nerves/trouble sleeping	5
Dolor de cabeza/migraña/ mareo	Headache/migraine/dizziness	5
Diabetes	Diabetes	4
Problemas renales	Kidney problems	4
Cáncer	Cancer	3
Depresión/problema mental	Depression/mental problem	3
Dolores musculares/músculos apretados	Muscle pain/muscle spasms	3
Embarazo/fertilidad	Pregnancy/fertility	3
Gripe	Flu	3
Problemas de la piel	Skin problems	3





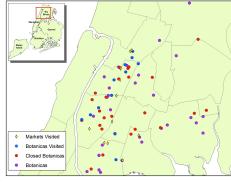


Figure 1. Map of The Bronx showing a total of 48 open botánicas (purple & blue dots), 20 closed botánicas (red dots), and 12 interviewed botánicas (purple dots). Grocery markets and supermarkets visited for comparison are

Discussion

While the nationality and ethnicity background of clients was varied, the owners and staff's backgrounds varied less so (mostly Dominican), which was no completely unexpected due to the small number of interviews conducted.

still often present, which is reinforced by the fact that a plant specialist or curandero was not always present but a spiritual consultant was a constant. Still most botaincas sell plants, either fresh androf dried. Those plants used purely for spiritual baths were not found in any of the markets. Those herbs common in cooking were easily found dry in the markets, but when found fresh they were often sold in small plastic packages that contained a couple of sprigs. Some of the more important plants are clearly not as accessible in NYC outside of the botánica, especially fresh plants.

Many participants reported spiritual problems as the main issue people have, including problems with luck, love, negative energy, and brujeria (witchcraft). With the exception of brujeria, no other folk illnesses were mentioned, which was unexpected.

Compared to the common conditions of well-being for which people seek treatment at the botánica, the NYC Dept. of Health and Mental Hygiene focuses more on chronic conditions, infectious disease, and the behavioral aspect of health (i.e. smoking, getting vaccinated). As such there is not much overlap between the two. With the exception of depression, the Community Health Survey does not focus on non-physical illnesses or conditions. This means that there is a whole area of health and well-being that the city is not examining, which is being addressed in part by traditional medicine and the *botánica*.

Conclusion

Cultural ties, strong beliefs and faith appear to be the primary reason why people access the botánica. Many of the clients have been raised around and are familiar with traditional medicine. The botánica is a place where they can find religious products and inaccessible plants, while receiving help and advice from community

It is important that conventional health care providers understand this approach to health, especially due to disparities in the health care people receive according to ethnicity and income level. An enhanced understanding of traditional medicine can lead to better patient-provider communication, as well as a more culturally sensitive and appropriate approach to health care.

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