Access to Spanish Prescription Medication Labels from New York City Pharmacies

Linda Weiss,¹ Elana Behar,² James Egan,¹& Peri Rosenfeld³

¹The New York Academy of Medicine ² Department of Urban Affairs and Planning, Hunter College ³Visiting Nurse Services of New York

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Study Focus

- Descriptive research focused on the availability of translated prescription medication information for limited English proficient (LEP) New Yorkers
 - □ This presentation is focused on the need for and availability of medication information in Spanish
- Specific concerns:
 - Translated prescription medication labels
 - Translated medication instructions (patient information sheets)
 - Medication counseling provided at pharmacies
 - □ Factors affecting language access in pharmacy settings

Background 1: Prescription Medications

- Prescription medications are an essential part of effective medical care
 - 1.3 billion medications were prescribed or provided during medical visits in 2002 alone
- Medication instructions may be complex, including:
 - Dosing, frequency, duration, and special instructions regarding food, liquids, and storage
 - Information on side effects
- Medication errors can have serious implications, including:
 - □ Reduced efficacy, increased adverse events, drug resistance
- Patients have day-to-day responsibility for medication management and recognition of adverse events

Background 2: Spanish Speaking/LEP Population

- According to the 2000 Census, 21.4 million people, or 8.1% of the U.S. population, are LEP*
 - □ This represents a significant increase from 1990 (6.1%) and 1980 (4.8%)
- 64.5% of the LEP population are Spanish speakers
- In New York City, 23.6% of the population are LEP
- Over half of LEP New Yorkers are Spanish speaking

^{*} LEP is defined as being unable to speak English "very well."

Background 3: Legal Considerations

- As recipients of federal funds in payment for medications, pharmacies are subject to the requirements of Title VI of the 1964 Civil Rights Act.
- Pharmacies in New York State may be required to provide language access services to comply with the branding and counseling provisions governing pharmacy practice.

Branding: Medical labels or printed information must be rendered in a way that "is likely to be read and understood by the ordinary individual under customary conditions of purchase and use."

Counseling: A pharmacist or pharmacy intern providing prescription services shall be required to personally counsel each patient or person authorized to act on behalf of a patient.

 Hospital-based pharmacies in New York would be required to follow the directives of the NYS Language Access and Patients Rights regulations adopted in September 2006

Study Methods

- Telephone survey of 200 randomly selected pharmacies from a list of all licensed NYC pharmacies (2100+) provided by the Office of Professions, NYS Education Department.
- Interviews were conducted with a pharmacist on duty between February and August 2006 and took about 5 minutes each to complete.

Study Methods (continued)

- Survey included questions on:
 - Frequency and language of LEP customers
 - Languages spoken by pharmacy staff
 - Ability to print translated medication labels and leaflets
 - Frequency of translations
 - Other policies and practices regarding multilingual medication information

Pharmacist & Pharmacy Characteristics

Pł	narmacy Type		
	Independent	119	(59.5%)
	Chain	71	(35.5%)
	Clinic/Hospital outpatient	10	(5.0%)
Pł	narmacist Birthplace		
	USA/Canada/Puerto Rico	76	(38%)
	Africa/Middle East	10	(5%)
	Asia & Pacific Islands	75	(38%)
	Caribbean/Latin America	11	(6%)
	Europe	20	(10%)
	Missing	8	(4%)

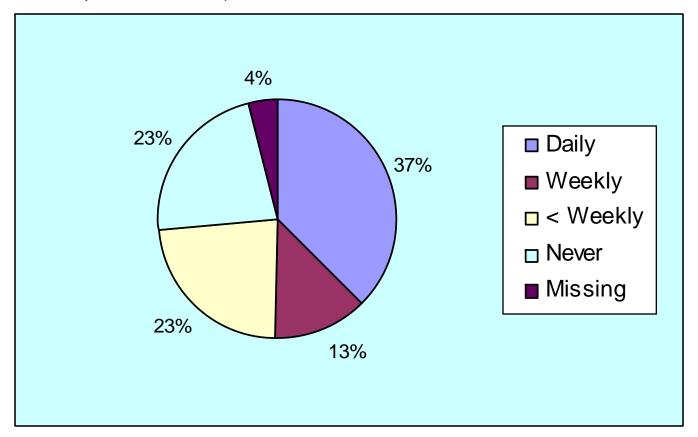
Limited English Proficient Pharmacy Patients

Pharmacist Self-Report

Daily LEP, any language	176	(88%)
Daily Spanish	<i>155</i>	(78%)
Daily Chinese	31	(16%)
Daily Russian	<i>27</i>	(14%)
Less than daily LEP	14	(7%)
No LEP customers	10	(5%)

- Percent Spanish speaking LEP in pharmacy census tract
 - □ Mean 12.6%
 - □ Range 0 49.8%

Frequency of Translation of Medication Labels (n = 155)*



^{* 155} pharmacies with Spanish speaking LEP patients daily

Adjusted Odds for Daily Translation of Medication Labels (n = 155)*

Adjusted Odds Ratios for Translation of Medication Labels on a Daily Basis (with

	Adjusted Odds Ratio &				
Characteristic	(Confi	(Confidence Interval)			
Pharmacist birthplace					
USA/Canada/Puerto Rico	1.00				
Asia/Pacific Islands	1.17	(0.48, 2.85)			
South America/Caribbean	0.16	(0.01, 2.26)			
Africa/Middle East	0.30	(0.04, 2.22)			
Europe	1.03	(0.24, 4.35)			
Pharmacy type					
Chain	1.00				
Independent	3.40	(1.25, 9.28) ^a			
Clinic/Outpatient hospital	5.43	(1.09, 27.01) ^a			
Pharmacy neighborhood characteristics					
LEP in pharmacy neighborhood, Spanish speaking	1.08	(1.04, 1.12) ^b			

^ap <.05 in multivariate logistic regression ^b p < 0.01 in mutivariate logistic regression

^{* 155} pharmacies with Spanish speaking LEP patients daily

Pharmacy Capacity to Provide Medication Information in Languages other than English

	Spanish n (%)			Chinese n (%)			Russian n (%)			Any Language n (%)		
Translated labels & patient												
information sheets												
Main label	143		(71.5%)	24		(12.0%)	19		(9.5%)	159		(79.5%)
Patient information sheet	103		(51.5%)	9		(4.5%)	8		(4.0%)	103		(51.5%)
Warning label										88		(44.0%)
Verbal information in												
languages other than English												
Yes	149		(74.5%)	28		(14.0%)	24		(12.0%)	177		(88.5%)
By pharmacist		44	(22.0%)		23	(11.5%)		17	(8.5%)		86	(43.0%)
By other staff		117	(58.5%)		6	(3.0%)		10	(5.0%)		133	(66.5%)
Telephone interpretation												
Yes										27		(13.5%)
No										172		(86.0%)

Most pharmacies (75%) have dispensing software with translation capabilities. 2 respondents said they developed their own translation software. Other respondents said they handwrite the translations.

Translated Medication Labels: Determining Who Gets Them (n = 155)*

Can tell through interaction	87	(56.1%)
 Language in customer record 	19	(12.3%)
 Customer requests translation 	56	(36.1%)
Indicated on the prescription	13	(8.4%)
Sign in pharmacy	13	(8.4%)
Word of mouth	19	(12.3%)

Three pharmacists reported that translated labels are provided to all patients except those requesting English only.

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Barriers to Increased Language Access

- Pharmacists concerned about translating into languages they don't understand – concerned about liability if there is an error
- Inadequacies in translation software
 - □ Programs generally print only one language at a time. May need to print two labels to have English (which is required) and a second language
 - □ Translations may be awkward, not grammatically correct
- Demands on pharmacists' time are already very high. Some feel there is not time for translation
- Shortage of qualified bilingual staff
- Pharmacists' attitudes and level of awareness. Relatively limited concern for the results in inadequate systems for identification and appropriate response to language access needs.

Project Next Steps

Improvement in language access at pharmacies through:

- Continuing education classes for practicing pharmacists
- Pilot interventions at selected pharmacies

Summary: Language barriers in pharmacy settings...

- A little (although increasingly) recognized problem
 - Within pharmacy education or practice
 - By practitioners and advocates working to improve language access in health care settings
- A lot of possibility for change
 - Technology exists to dramatically improve language access in pharmacies
 - Significant improvements can occur with relatively simple changes in systems and behaviors

Project Staff and Collaborators

Community Advisory Board

- Emily Ambizas, St. John's University, College of Pharmacy and Allied Health Professions
- Elana Behar, Hunter College
- Sebastian Bonner, The New York Academy of Medicine
- Olveen Carras quillo, Columbia University Department of Medicine
- John Chin, Hunter College
- Frances ca Gany, New York University School of Medicine
- Adam Gurvich and Maysoun Freij, The New York Immigration Coalition
- Holly Lee, Charles B. Wang Community Health Center
- Robert A. Mangione, St. John's University, College of Pharmacy and Allied Health Professions
- Megan McAllister, Program Officer, Altman Foundation
- Theo Oshiro, Make the Road by Walking
- Sandhya Parathath, NYC Health and Hospitals Corporation
- Priti Patel., St. John's University, College of Pharmacy and Allied Health Professions
- Peri Rosenfeld, Visiting Nurse Services of New York
- Linda van Schaik, Bellevue Hospital Center
- Lauren Schwartz, NYC Poison Control Center
- Iman Sharif, Albert Einstein College of Medicine/Montefiore Medical Center
- Mara Youdelman, National Health Law Program

Project Staff

- Sebastian Bonner
- Jon Gass
- Linda Weiss

For more information, contact:

Linda Weiss

Center for Urban Epidemiologic Studies,

The New York Academy of Medicine

email: <u>lweiss@nyam.org</u>

tel: 212-822-7298