

English as a Second Language Health Literacy Program: The Process of Engaging Diverse Stakeholders for a Social Practice

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Overview

Health literacy is dependent on individual and systemic factors; it requires that individuals have literacy, numeracy, and communicative skills (e.g., social, personal, and cognitive) that are necessary to master navigating one's way through the health system (e.g., health information seeking, decision making, problem solving, critical thinking, and communication). A community-based participatory research (CBPR) approach is fundamental to leveraging sectors to individually and systemically address health literacy as a social practice. English as a Second Language (ESL) Hispanic adult learners are disproportionately: (1) disadvantaged with health literacy, and (2) impacted with negative health outcomes. The public health crisis in Flint Michigan exposed people in the city to unsafe levels of lead in their drinking water; to prevent further exposure to lead in the drinking water among ESL Hispanic adult learners, a CPBR approach was undertaken to develop and evaluate an ESL Health Literacy Program. This ESL Health Literacy program aligns with goals set by the 2010 National Action Plan to Improve Health literacy. This paper describes our best-practice approach to forming and strengthening, sustainable partnerships and collaborations from diverse sectors to develop this ESL Health Literacy Program. This CBPR process involved leveraging the collective partnerships, collaborations, and efforts of community, health, research, and education stakeholders to empower ESL adult learners to identify and change their lead exposure behaviors. To our knowledge, this if the first CBPR program that has investigated an adult educational health literacy intervention with an ESL for Hispanic adult learner's component following a U.S. public health crisis.

Asset Mapping



Participating organizations: Asset mapping of services for immigrants in Flint in 2015:

- Genesee County Hispanic Latino Collaborative (GCHLC)
- Muslim American Leadership Alliance
- United for a Free Syria
- Jewish Community Services
- Chinese Association of Greater Flint.
- **UM-Flint International Center**
- **Kettering International Programs**
- Genesee Intermediate School District
- Red Cross
- Arab American Heritage Council
- Flint Public Library
- Hispanic Technology and Community Center
- Legal Services of Eastern Michigan
- Michigan Transportation Authority
- Mott Community College

Program

Health and English as a Second HELP Language Literacy Program

This program is an intervention that teaches health literacy skills and English language skills using the topic of lead exposure prevention.

Next Steps

- Program Recruitment and Implementation: With support from the stakeholders, we will: (1) recruit Hispanic participants and offer the class bilingually in English and Spanish; and (2) implement HELP.
- Dissemination: The program and modified assessments will be publicly available, alongside data on effects of the program. We will work with the community advisory group to expand this program to additional immigrant groups and/or health literacy topics.

Focus Groups and Canvassing

2016 Focus groups with immigrants in Genesee County

- 8 focus groups in English and immigrants' home language (Arabic, Cantonese, French, Mandarin, Russian, and Spanish)
- 108 individuals participated from 26 countries
- Written questionnaire followed by discussion
- Ethnographic field notes recorded by PI and co-I

2016 Canvassing Hispanic households in Flint

- Initiated by GCHLC, supported by the Kellogg Foundation
- VAN system used to interview Hispanic families living in Flint following the water crisis
- 95 households interviewed, totaling over 400 individuals
- Interviews conducted in English or Spanish

Knowledge Translation

- Knowledge exchange across knowledge inquiry, knowledge synthesis as well as knowledge tools and products.¹⁰
- **Knowledge makers** are community and academic partners, and the advisory group (identified with members from the asset mapping process). **Knowledge users** are direct and indirect audiences.

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Key Issues

- No known level of lead exposure is considered safe⁷
- U.S. Hispanic populations are at a greater risk for limited health literacy than non-Hispanics.^{3,8,9}

Needs Analysis Findings

The community-based needs analysis from asset mapping, focus groups, and canvassing identified the following:

- Need for more ESL instruction
- Need for more multilingual health-related information and increased access to healthrelated services
- Participants living in Flint needed more access to clean water (bottled water, filters), wipes, formula, and translated information to prevent lead exposure

Community and Health



Sectors

Figure 1. Academic,

Our Community Advisory Board Comprised of community members and representatives that provide information and assistance for the program.



Theoretical Framework

 The ESL health literacy program intervention will use community-based participatory research (CBPR) practices aligned with national health literacy initiatives. Theoretical frameworks include a blend of education and health models.

Table 1. Theoretical Models	
Education	Health
Adult Learning Theory ¹¹	Health Belief Model ¹⁴
Translingualism Theory ¹²	Health Literacy Model ²
Participatory Curriculum	Health Promotion
Development Pedagogy ¹³	Model ¹⁴

Table 1 Theoretical Models

References

and Human Services. Retrieved from: https://ntp.niehs.nih.gov/ntp/newhomeroc/roc11//ad-public_508.pdf Serensen, X., Man den Stroucke, S., Fullam, I., Overle, G., Pelkan, J., Stonska Z., & Brand, H. (2012). Health literacy and public health: A system review and integration of definitions and models. BMC Public Health, 12(1), 90. II S. Denortment of Jeahh and Limans Cenvices. "Rifer of Disease Pervention and Health Permention. (2010). National Action Plan to Immove

- epartment of Health and Human Services, Office of Disea I Literacy. Washington, DC: Author. Retrieved from https
- nearin Literacy. wasingtoin, DC. Aution: Retrieved nom intips./inearing.gov/commonication/intearing-retrieved normality-action/inpartas A Soto Mas, F., Cordova, C., Murrietta, A., Jacobson, H., Ronquillo, F., & Helliter, D. (2015). A multisite community-based health literacy intervention for Spanish speakers. Journal of Computing Verag, G., & Roupp, J. W. (2000). Results of language for health: Cardiova C. Elder, J. P., Candelaria, J. L. Woodruf, S. J. (Engli. Astronometry action of the second and the second anguage students. Health Education & Behavior, 27(1), 50-63. S santos. M. G., Handley, M. A., Omark, M. & Schlinger, D. (2014). ESI participation as a mechanism for advancing health literacy in Social Sciences. Sciences and Scien
- immigrant communities. Journal of Health Communication, 19(sp2), 89-105. World Health Organization (WHO), (2018). Lead poisoing and health. WHO: Fact Sheets. Retrieved from: <u>http://www.who.int/news</u> Journal Journal of Health Communication, 19(sp2), 89-105. Storm Aras Mein F, Fuentes B, Thatcher B, Balcázz H (2013). Integrating health literacy and ESL: an interdisciplinary curriculum for Hispanic immigrants. Health Promot Pract. 14(2), 263-373.
- Koskan A, Friedman DB, Hillinger Messias DK. (2010). Health Literacy Among Hispanics: A Systematic Research Review (1992–2008) Hispanic Health Care International. 8(2):65-76. Graham (D. Logan). Harrison MB, et al. (2006). Lost in knowledge translation: Time for a map? J Contin Educ Health Prof. 26(1), 13-24. Bryers, D. (2015). Participatory ESOL. Language Issues 26(2), 55-57. Retrieved from http://failondon.orx/istev/default/lite/isfocument/Participatory: 550L Janguage% 2018sues %2026- 2 Bryers.pdf. <u>http://efalondon.ore/sites/default/files/documents/Participatory-SQL-language</u> SQL262, 55-57. Retrieved from
 <u>http://efalondon.ore/sites/default/files/documents/Participatory-SQL-language</u> 20lssues %2026- 2 Bryers.pdf.
 12. Creese, A& Blackledge, A (2010). Translanguaging in the bilingual classroom: A pedagogy for learning and teaching? The Mo Journal, 94(1), 103-115. doi:10.1111/j.1540-4781.
 13. Freire, P. (1968). Pedagogy of the Oppressed Translated to the Complexity of the Compression of the Complexity of the Complexit
- Glanz, K., Rimer, B.K., Viswanath, K. (2008). Health behavior and health education: theory, research, and practice, 4th ed. San Francisco, CA: Jessay, Rece