Local Perceptions of Barriers to Optimal Health in South Texas Colonias PREETI DAVE, MD1*, ELIZABETH LOSADA MD1*, AND MARSHA GRIFFIN MD2

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BACKGROUND

- · Colonias are impoverished, unincorporated Latino communities found in border counties of Texas and other border states.
- · These communities are medically underserved and have high rates of obesity and diabetes.
- ARISE is a non-profit, non-partisan women's empowerment organization that serves families living in colonias in Hidalgo County, Texas.
- Since women play a key role in the dissemination of health information to children, ARISE offers health education groups to enable women to help prevent diabetes and obesity in their children
- · This aims of this study were to:
 - · Assess the knowledge of diabetes and obesity.
 - · Identify the health needs of families in the colonias.
 - Disseminate these findings to ARISE and other community groups so that future interventions may be designed to target these issues.

METHODS

Study design:

- 24 Spanish-speaking women were interviewed in Spanish by 2 researchers (Drs. Dave and Losada).
- · Potential interviewees were identified by ARISE staff as:
 - · Mothers or grandmothers with children in their households
 - · Residence in a colonia served by ARISE
 - · Utilizing services provided by ARISE for themselves and/or their children.
 - · Available during business hours for interviews
- Interviews used a standard script with open-ended questions regarding obesity, diabetes and community health.
- · General responses were collected and compiled into groups based on
- Once dangerous dogs were identified as a major community problem, local hospitals were contacted to obtain data on incidence of visits for dog bites.
- Data were obtained from hospital administrators in the Rio Grande Valley.
- Approval from the UTHSCSA Institutional Review Board was obtained.

RESULTS

- · Several themes regarding the health of the women and children in the colonias emerged from the interviews:
 - The presence of dangerous dogs in the streets of the colonias prevents children and families from exercising outside.
 - · Mothers and grandmothers are unclear about how active their children are while at school.
 - · Residents of colonias lack access to fresh produce and other healthy choices and generally consume a culturally specific high-fat, highcarbohydrate diet.
 - · Many impoverished residents of the colonias have no access to medical care and lack health insurance due to immigration status.
- The increase in violence along the U.S.-Mexican border has added additional barriers to health access for colonias residents by preventing travel across the border to obtain low-cost healthcare in Mexico.
- Women who attended "grupos de salud" at ARISE obtained education about healthy lifestyles that they felt they could implement for their families.
- The interviewees felt that lack of education about diet and lack of access to exercise contributed to childhood obesity in their community.





Table 1: Number of Dog Bites Each Month Seen In 3 ERs of the South Texas Health System 8

Month	Year	#Bites
Nov	2011	20
Dec	2011	32
Jan	2012	31
Feb	2012	17
Mar	2012	28
Apr	2012	24
May	2012	27
Jun	2012	31
Jul	2012	26
Aug	2012	36
Sep	2012	28
Oct	2012	21

Photo: A roaming pack of dogs 3

Table 2: Number of Dog Bites per month in 2012 seen in ED by age at Rio Grande Regional Hospital 5

	# Dog Bites by Age		
Month	<11yrs	11-17yrs	>17yrs
Jan	3	2	9
Feb	2	2	6
Mar	2	1	4
Apr	5	0	2
May	3	3	6
Jun	4	1	3
Jul	5	1	2
Aug	3	2	2
Sep	4	1	2
Oct	4	2	3

CONCLUSIONS

- · Our study indicates that women in colonias desire better access to healthcare and education about healthy lifestyles for their families.
- This population faces difficulty in accessing healthy foods, safe places for exercise, and basic medical care for their children.
- · A high-fat, high-carbohydrate diet, lack of knowledge about how active children are at school. and the presence of dangerous dogs in the streets are culturally specific challenges for this community.
- Interventions that could be beneficial in reducing obesity in this community include: offering nutrition classes and structured exercise programs for children, reducing dangerous dogs in the streets, and expanding access to care at local clinics.

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