

Womb to Improve: Assessing Needs for a Healthier Lifestyle During Pregnancy



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⊘ Introduction

Healthy lifestyle behaviors during pregnancy strongly influence maternal and neonatal outcomes including fetal development, gestational diabetes, pre-eclampsia, and preterm birth. The UCSD/SDSU General Preventive Medicine Residency (PMR) program partnered with Linda Vista Healthcare Center San Diego Family Care, a Federally Qualified Health Center (FQHC) to identify patients' understandings, barriers, and needs to meet the recommendations for healthy lifestyle behaviors during pregnancy.

The purpose of the social and educational assessment is to identify the predisposing and reinforcing factors leading to an unhealthy lifestyle in women of childbearing age.

⊘ Methods

The needs assessment followed the PRECEDE-PROCEED model and used a mixed-methods design combining qualitative social and educational assessments of FQHC stakeholders with quantitative assessments of walkability and the local environment.

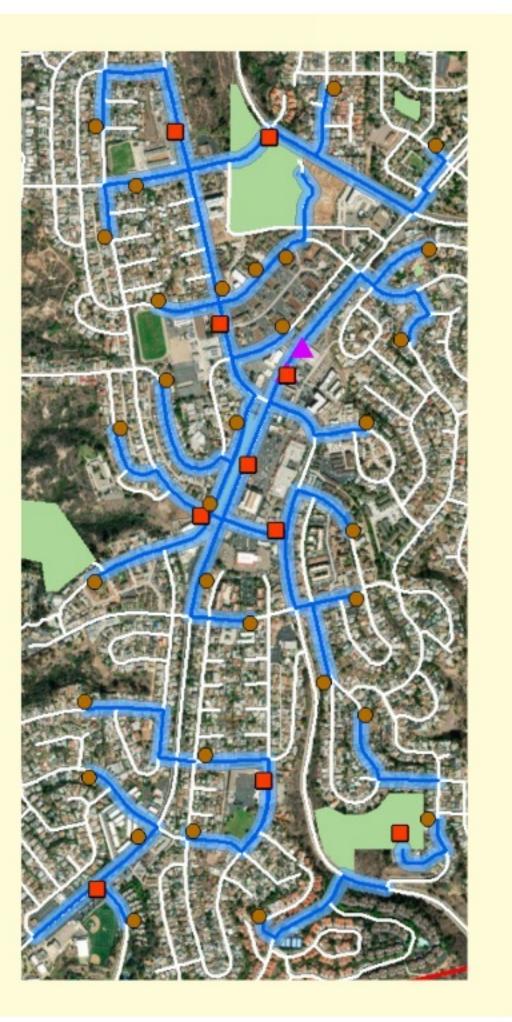
PMR residents and students conducted interviews with prenatal patients in English and Spanish and the FQHC Medical Director, as well as focus groups with clinicians and clinic staff. Transcripts underwent open and axial coding by three reviewers identifying common themes regarding barriers to maternal healthy lifestyle behaviors. Analysis concluded with selective coding when a single core category that represents the transcript data was agreed upon.

PMR redidents also partnered with Urban Design for Health and conducted an environmental survey of the clinic's catchment area. Residents surveyed twenty routes surrounding the Linda Vista Clinic assessing walkability, safety, and available amenities mimicking a patient walking to the clinic or a nearby point of interest. Two surveyors completed each route and differences in responses were considered for data accuracy



Figure 1: Google Streetview used to identify various environmental features in a residential area, such as setbacks, sidewalk quality, building typology and height, and street buffer space for survery

Figure 2: Map showing the Linda Vista routes (blue line) from participant residential addresses (brown dots) to destinations (red squares) with the Linda Vista Health Center denoted (purple triangle).



Results

Findings emphasized that improved nutrition resources during pregnancy are needed, but solutions differed between patients and staff. Clinic staff and leadership were interested in more workers to provide education, while patients requested more information directly from providers.

Priorities: "...probably 5 minutes. Talking about ... prenatal vitamins, their exercise, and... nutrition if they're gaining too much or not gaining enough [weight]."

Barriers:

"that nutrition
educator is also seeing
diabetic patients. So
it's one for everyone.

One for all
departments..."

Staff

Patients Beliefs: "For me that's organic stuff...grass fed meat." Source of information: "I think I'm gonna trust it more if my doctor would have

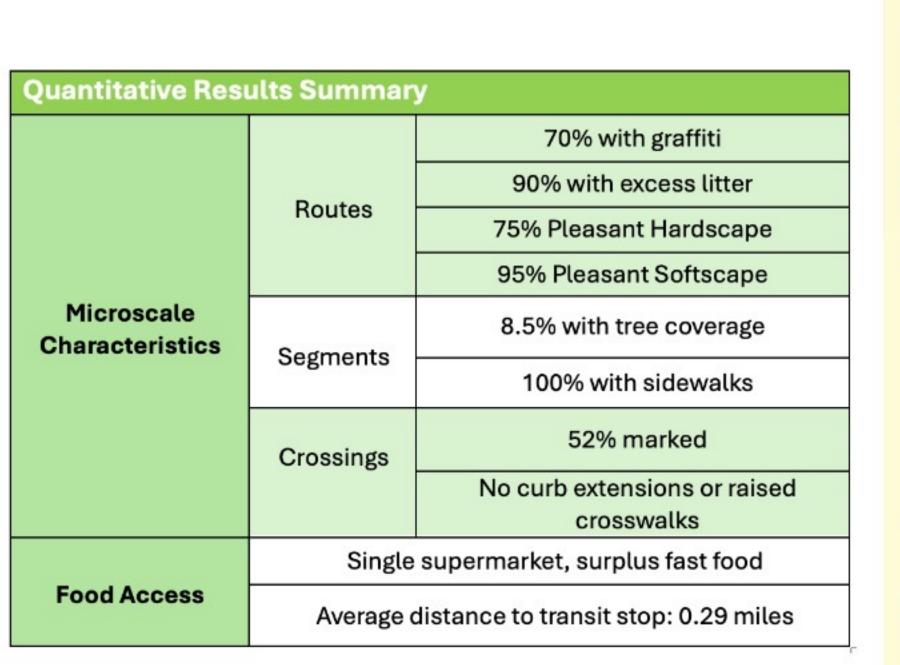
told me..."

Qualitative Results Summary		
Challenges to Educating About/Adopting a Healthy Lifestyle	Patient	Finances, anxiety, work-life
		Difficulty in signing up for certain benefits or programs
		Lack of Knowledge (especially in first pregnancy)
	Provider/Staff	Income
		Patient mindset and cultural barriers
		Limited Staffing, Bandwidth and Time
Forward Looking Ideas of Lifestyle Education	Patient	Printed materials from provider ie handouts, pamphlets
		More time with provider to ask questions
		Recommended sources like apps, websites, etc.
		Desire to speak with dietician
	Provider/Staff	Increased Staff: Health educator, social worker, home health workers
		Use of Incentives: Providing healthy food, free childcare, reward
		systems
		Variety of Education Modalities: visuals, waiting room TV programs, support groups, age, and culturally accessible materials

The ecological assessment revealed most routes had characteristics discouraging outdoor physical activity. It further showed lack of immediate access to supermarkets, but readily available public transit stops.

LINDA

VISTA



Mission Heights

Bayside Carbon Heights

Carbon Heights

Bayside Community

Center

Community

Com

Figure 3: Map of pedestrian crosswalk treatment for each intersection along walking routes in Linda Vista. Intersections crossing with two local streets crossing one another were most likely to have no marked crosswalks available.

⊘ Discussio

The qualitative results solidify the need to improve resources for prenatal nutrition at SDFC. Quantitative results reveal that the microenvironments around SDFC discourage a healthy lifestyle and must be considered with future interventions. Cumulative results are being used to design a handout that providers can provide prenatal patients with resources including recipes with locally available foods. The walkability survey results will also be shared with clinic staff and providers to aid in physical activity counseling and further have the potential to impact decisions of community or city planners when considering maintenance and future building projects.

Aknowlegments

This work was supported by a Health Resources & Services Administration (HRSA) Training Grant

UC San Diego Health