

United States-Mexico Border Health:

Challenges and Opportunities

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Background

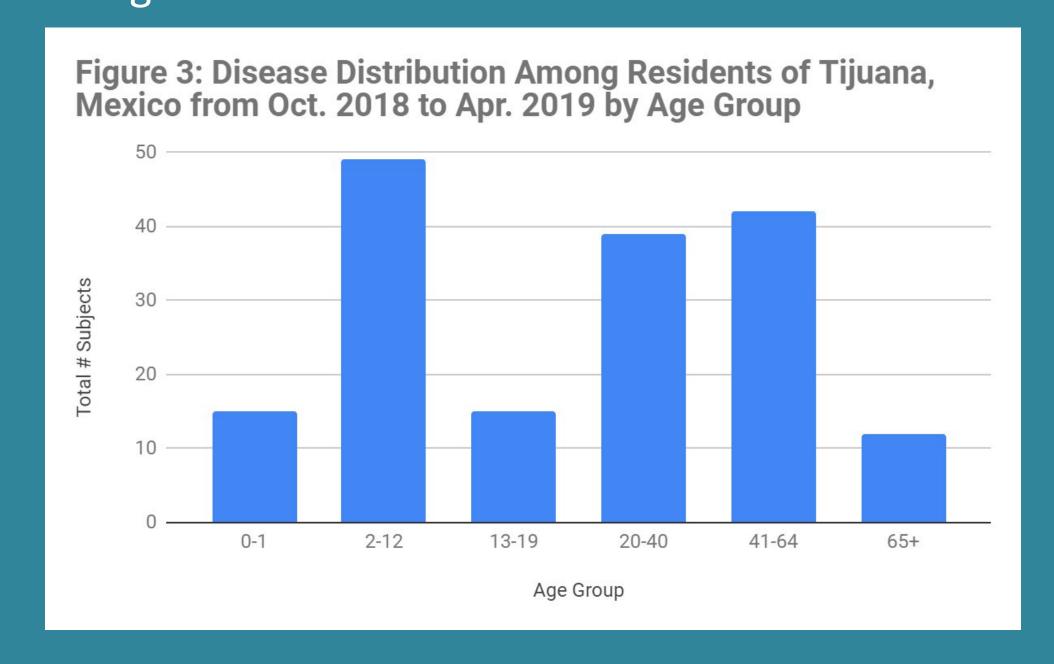
- There are currently 11 million people residing along the U.S.-Mexico border.
- The U.S. border is among the poorest areas in the United States with about less than 30% of families are living at or below the poverty level.
- Border residents living with chronic diseases are more likely to be unaware of their status.
- ♦ Obesity prevalence among the U.S. border population was higher than among the Mexican border population (57.5% vs. 45.5%)

Objective

The purpose of our study is to determine body mass index (BMI) distribution among the residents of Tijuana, Mexico, and to assess the distribution of comorbidities that comes with having certain BMI status.

Study Design/Subjects

- A cross-sectional design was used for our study.
- The International Health Collective (IHC) is a clinic run by students from UCSD that serves the communities in Tijuana, Mexico.
- ❖ We acquired data from 173 subjects who sought medical treatment from IHC between October 2018 to April 2019 (56 Males and 117 Females).
- The study subjects were randomly chosen, utilizing only their gender, age, BMI status, and diagnoses.

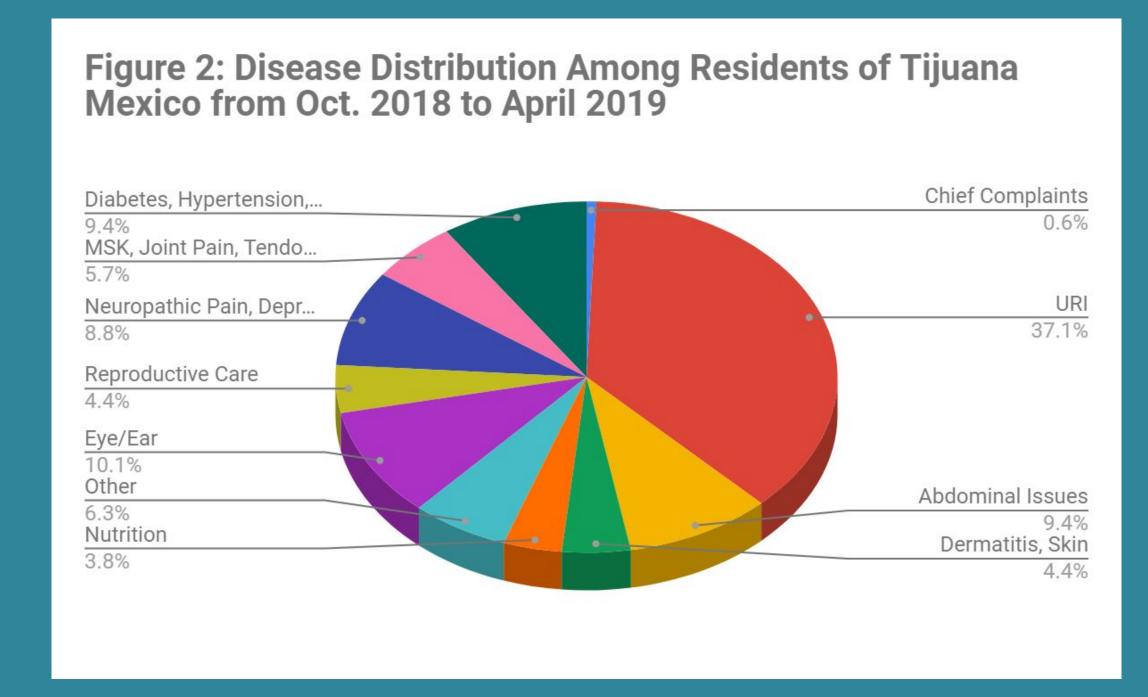


Operational Definitions

- ❖ BMI status was determined via calculated BMI based on subject's recorded height and weight categorized into 5 levels:
 - 18.5% and under = Underweight
 - 18.5% 24.9% = Healthy
 - 25.0% 29.9% = Overweight
 - 30.0% + = Obese
 - 40.0% = Class 3 Obese
- Health status was determined according to subject's recorded diagnoses.

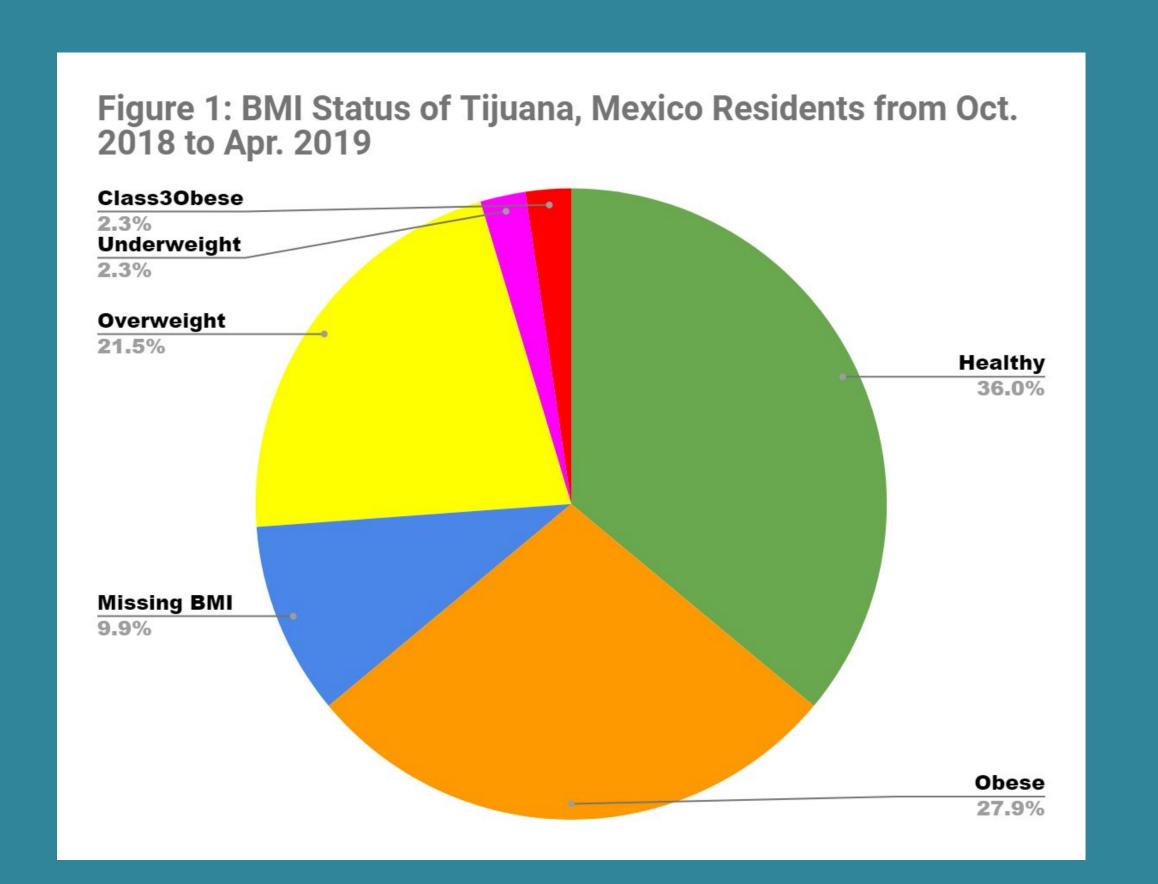
Results

- Among IHC patients reported nutrition and physical activity as their major health concerns, and are the main two behaviors affecting most of the adult population.
- **BMI** status distribution is as follow:
 - 2.3% (4) = Underweight
 - 36.0% (62) = Healthy
 - 21.5% (37) = Overweight
 - 27.9% (48) = Obese
 - 2.3% (4) = Class 3 Obese
- Subjects who measured a BMI greater than 25.0% were diagnosed with upper respiratory and nutritional issues. Fifteen (9.4%) of these subjects were diagnosed with diabetes and hypertension.



Policy Implications

- Instilling affordable healthcare options at the US Mexico border. This option grants healthcare to immigrants who are crossing the border by having their employer cover costs for workers and their families.
- Foundation initiatives to fund binational health activities. This policy takes funds from foundations and allocates them toward binational health insurance.
- ❖ Invest in prevention and health promotion to address the high prevalence of high BMI in vulnerable populations. This policy would spread information about the issue through a series of programs.



Conclusion

- As subjects age, their BMI status increases.
- Addressing nutritional needs and physical activity can greatly improve the health of the residents of Tijuana.
- Access to an affordable healthcare system would also benefit the vulnerable populations of Tijuana by offering low-cost insurance policies.

Acknowledgements

We would like to thank International Health Collective for providing us with data that we utilized for our policy brief. We would also like to thank Professor Sarah Linke and our teaching assistants, Haley Ciborowski and Emily Eshraghian, for the opportunity and guidance they provided for our study.



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