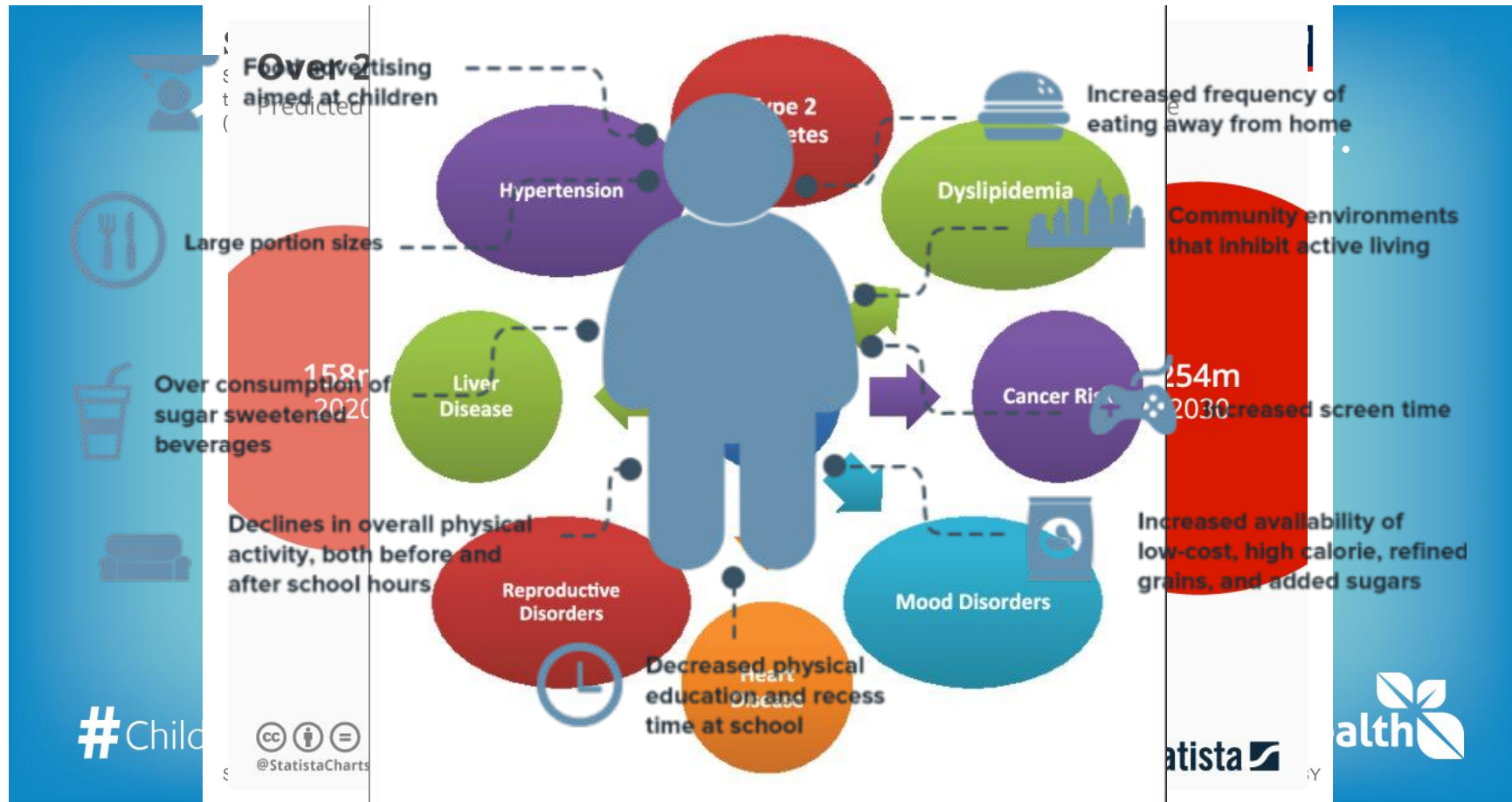


UCLA Undergraduate
RESEARCH WEEK

Review on Global Trends and Risks for Childhood Obesity

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Introduction



Introduction - Purpose

- Recognition of childhood obesity as a significant health issue
- Focus on epidemiology and primary causes
- Compare childhood obesity in US and other countries
 - Examine specific trends in US compared to global trends
- Find correlates of childhood obesity
 - Macro level correlates/moderators

Methods

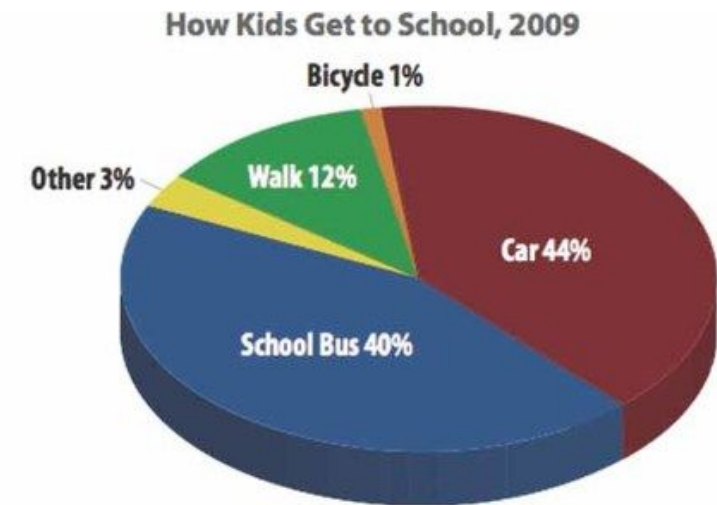
- A scientific literature review was conducted
- Key search terms were identified and then used to gather articles through online databases
- Articles were synthesized by drawing connections between the data, states, environments, and policies of different countries

Results

- Cross sectional study in Japan found relationship between frequency of home cooking and childhood obesity
 - Other studies found home cooking to be associated with higher vegetable consumption amongst children
- Lower SES neighborhoods in the US are particularly vulnerable, less access to healthy affordable options

Results

- In Mexico, childhood obesity was lower in rural areas, less movement by public transport
- Less physical activity in New York and London has been linked to fewer recreational areas, fears of crime, and heavy traffic in poor neighborhoods



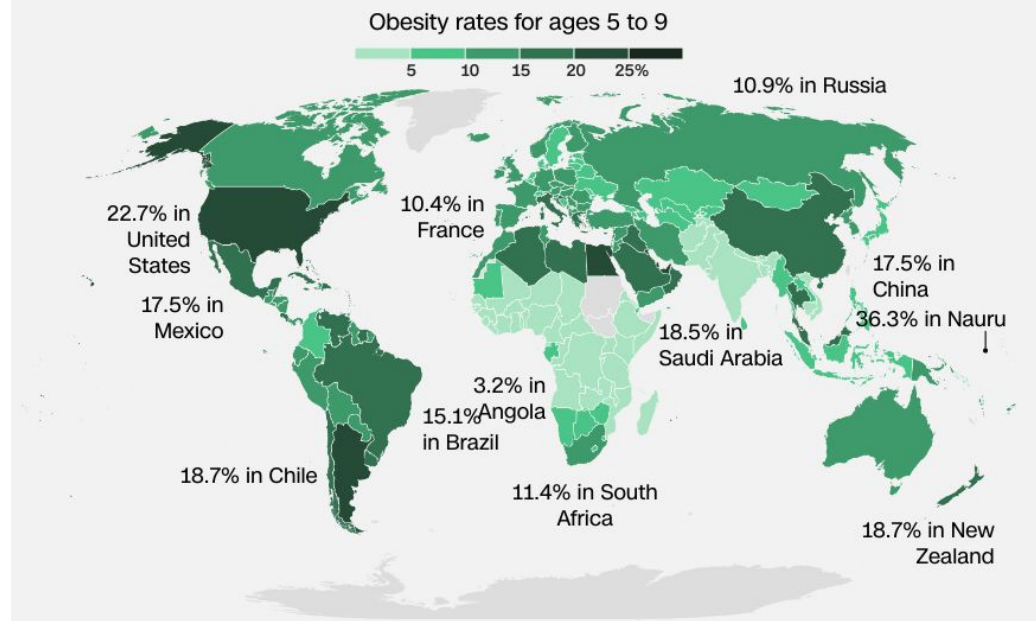
Source: U.S. Department of Transportation, Federal Highway Administration Office of Policy, National Household Travel Survey, 2009.

Results

Source: CNN

Obesity rates in younger children around the world

Data from 2016 shows the prevalence of obesity in kids between ages 5 and 9.



- Pacific Islands have highest obesity rates among children (ages 5-19)
- Cultural differences: “Obese” is not universal, obesity is measured on different scales
- Processed food in place of traditional food contributed to high obesity rates in the Pacific Islands

Conclusions

- By comparing international data, the effects of nutrition and physical activity on childhood obesity are made clear
- However, it is also important to be cognizant of the fact that not everyone can make simple lifestyle changes, there are larger structural factors at play
- Oftentimes it is low SES groups that are most impacted
- To address this countries should work with impacted groups to develop policies like increasing access to supermarkets and recreational areas or adding biking lanes and safe walking routes
- To address childhood obesity, it will be important to focus on the nutrition and physical activity of impacted groups by providing accessible and available solutions

Acknowledgements/Works Cited

Acknowledgements:

- Community Medicine in Los Angeles

Works Cited:

Freudenberg, N., Libman, K., & O'Keefe, E. (2010, September 2). *A tale of two obescities: The role of municipal governance in reducing childhood obesity in New York City and London - Journal of Urban Health*. SpringerLink.

Retrieved April 9, 2023, from

<https://link.springer.com/article/10.1007/s11524-010-9493-x>

Acknowledgements/Works Cited

Works Cited:

Howard, J. (2019, February 13). *Why these Pacific Island nations have world's highest childhood obesity rates*. CNN. Retrieved April 10, 2023, from <https://www.cnn.com/2019/02/13/health/child-obesity-parenting-without-borders-intl/index.html>

Rahman, T., Jackson, R. J., & Cushing, R. A. (2011, January 21). *Contributions of built environment to childhood obesity*. Wiley Online Library. Retrieved May 7, 2023, from <https://onlinelibrary.wiley.com/doi/full/10.1002/msj.20235?globalMessage=e=0>

Acknowledgements/Works Cited

Works Cited:

- Shamah-Levy, T., Cuevas-Nasu, L., Gaona-Pineda, E. B., Valenzuela-Bravo, D. G., Méndez Gómez-Humarán, I., & Ávila-Arcos, M. A. (2022). Childhood obesity in Mexico: Influencing factors and prevention strategies. *Frontiers in public health, 10*, 949893. <https://doi.org/10.3389/fpubh.2022.949893>
- Tani, Y., Fujiwara, T., Doi, S., & Isumi, A. (2019). Home Cooking and Child Obesity in Japan: Results from the A-CHILD Study. *Nutrients, 11*(12), 2859. <https://doi.org/10.3390/nu11122859>
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