

Research Questions

If childhood overweight/obese status can be predicted from the 2016 NSCH, which risk factors (family meals, sleep, and media use) are the most significant at predicting childhood overweight/obese status in Oklahoma?

Does the inclusion of a particular risk factor increase or decrease the probability of childhood overweight/obese status in Oklahoma?

Does the exclusion of a particular risk factor increase or decrease the probability of childhood overweight/obese status in Oklahoma?

Childhood Obesity: National Trends

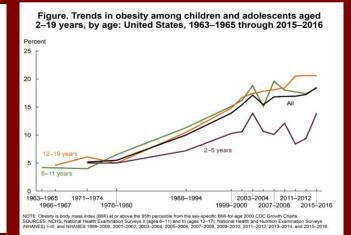
Obesity Rate, Youth Ages 10-17, 2016-2017

Select years with the slider to see historical data. Hover over states for more information. Click a state to lock the selection. Click again to unlock.

Obesity rates, children ages 10 to 17

0 - 9.9% **1** 10 - 14.9% **1** 15 - 19.9% **2** 0 - 24.9% **2** 5 - 29.9% **3** 0 - 34.9% **3** 35%+





U.S. Department of Health and Human Services [DHHS], Centers for Disease Control and Prevention [CDC] & National Center for Health Statistics [NCHS], 2016; Ogden et al., 2016; The State of Obesity, 2018a; CDC, 2018

Childhood Obesity: Oklahoma – Youth Ages 10-17

20	2016-2017: 18.7%	
Rank 🔺	State	Obese 10-17s 2016-2017
1	4 Mississippi	25.1%
2	🕐 West Virginia	20.3%
3	 Kentucky 	19.3%
4	Louisiana	19.1%
5	Oklahoma	1675
6	V Ohio	18.6%
7	Texas	1894
8	b Georgia	184
9	Alabama	1825
10	Iowa	17.7%
11	J Indiana	17.5%
12	1 Michigan	17.3%

2018: 18.0%

Rank 🔺	State	Obese 10-175 2018
1	4 Mississippi	25.4%
2	✔ West Virginia	20.9%
3	 Kentucky 	20.8%
3	Louisiana	20.8%
5	3 Michigan	18.9%
6	 Oklahoma 	18.0%
7	 South Carolina 	17.9%
8	٦ Florida	17.8%
9	 Pennsylvania 	17.4%
10	♥ Ohio	17.1%
11	New Mexico	16.9%
12	 Tennessee 	16.7%
13	J Indiana	16.6%

The State of Obesity, 2018a, 2019

Current Prevention Effort

National Level

Florida

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- Centers for Disease Control and Prevention (CDC)
 - better health education
 - more physical education and physical education programs
 - healthier school environments
 - better nutrition services

- Oklahoma Ste Department of Health (OSDH)
 - Consumption of nutritious foods and beverages
 - At least 60 minutes of physical activities

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- Less television
- ▶ 8 to 10 hours of sleep
- Implementation
 - Data at the school level
 - Lack of data at the home level
- Need
 - Research on factors that significantly increase risk within home environment

CDC, 2017a; OSDH, 2019d

Childhood Overweight/Obese Status

Obese Status

- Excessive body fat
- Measurement
 - Body weight > Body Mass Index (BMI) ≥ 29.9 kg/m2
 - ▶ BMI-for-age \geq 95th percentile



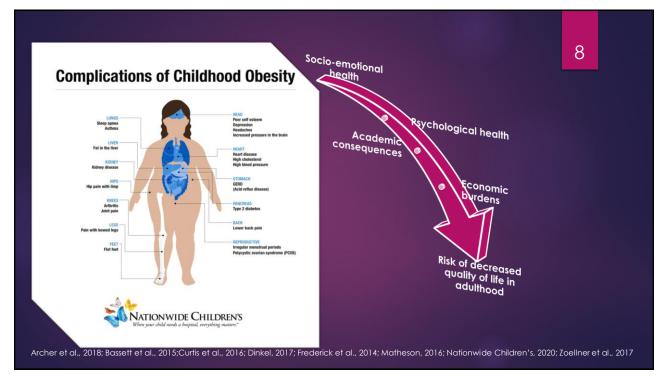
Overweight Status

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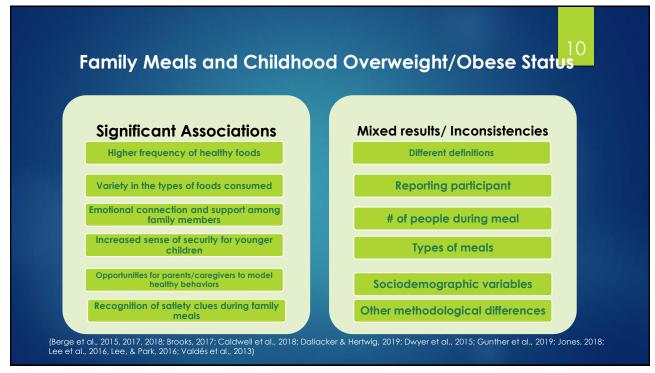
- With or without excess fat
- Measurement
 - Body weight > BMI standard, 25.0 kg/m2 and < 29.9 kg/m2</p>
 - BMI-for-age ≥ 85th and < 95th percentile

CDC, 2016, 2018a; National Library of Medicine [NLM], n.d.a; Obesity Action Coalition [OAC], 2018; The Triological Society, 2020

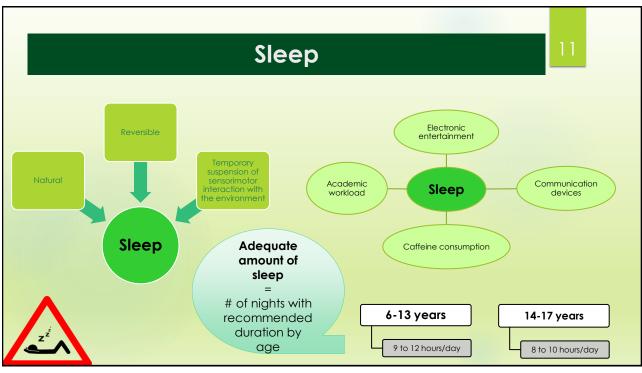


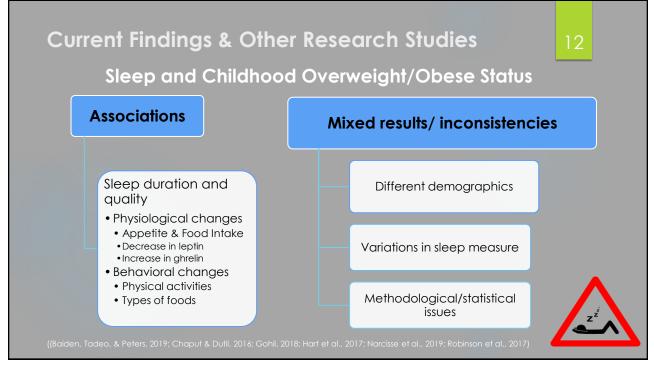


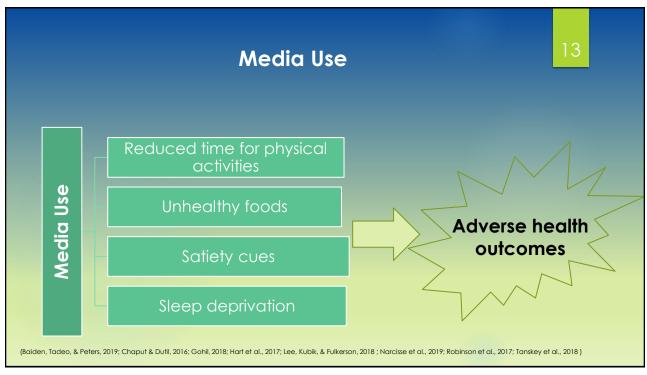
Modifiable	Non-Modifiable	Challenges
 High energy foods/beverages consumption Sedentary lifestyle Television Video/electronic games Socio-economic Low Income Food insecurity Inadequate consumption Lack of sleep Neighborhood disadvantages Parenting style 	• Genetics	 Variation Multifactorial No single solution to p and management

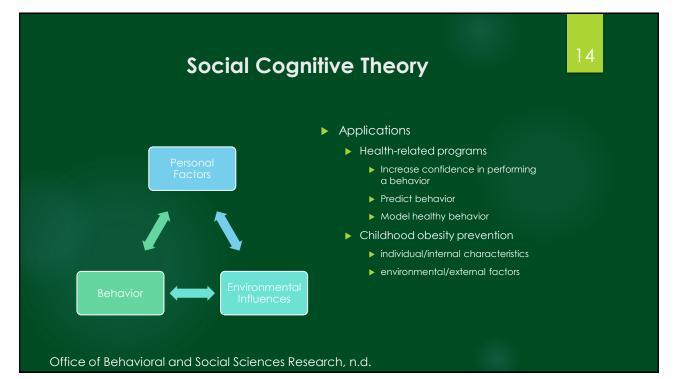


prevention

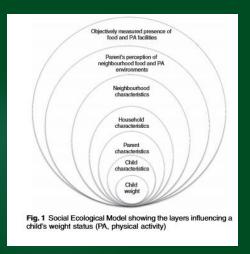








Socioecological Model/Ecological Model (SEM)



Ohri-Vachaspati et al., 2015

Applications

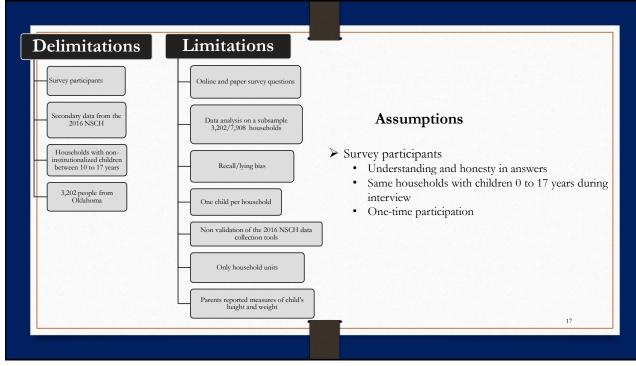
 Childhood obesity-related studies or interventions 15

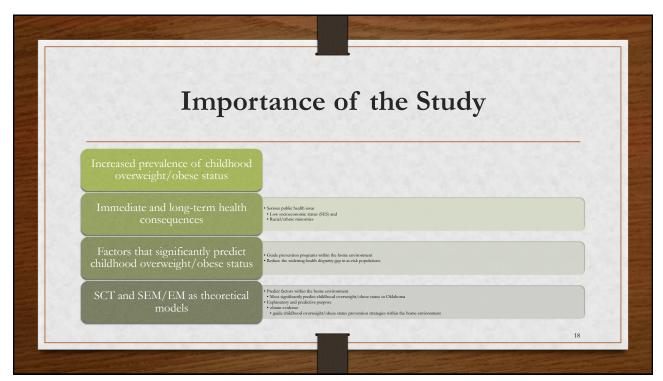
- Family-based behavioral change program
- More complex

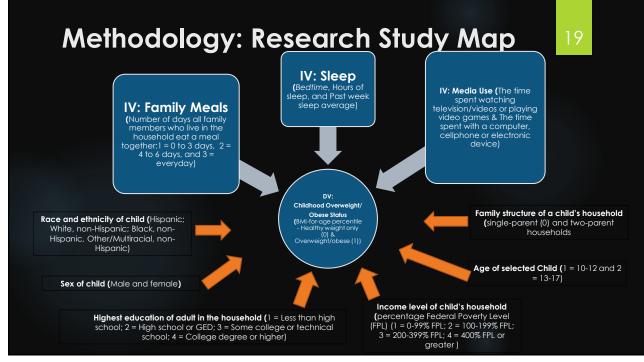
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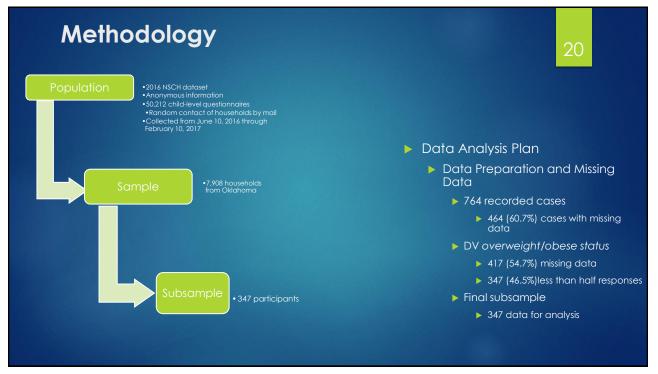
- H₀₃. Family meals, sleep, and media use will not significantly differ by age groups (10-12 years and 13-17 years) in predicting childhood overweight/obese status in Oklahoma.
- H₀₄. Family meals, sleep, and media use will not significantly differ between children who are male and children who are female in predicting childhood overweight/obese status in Oklahoma.

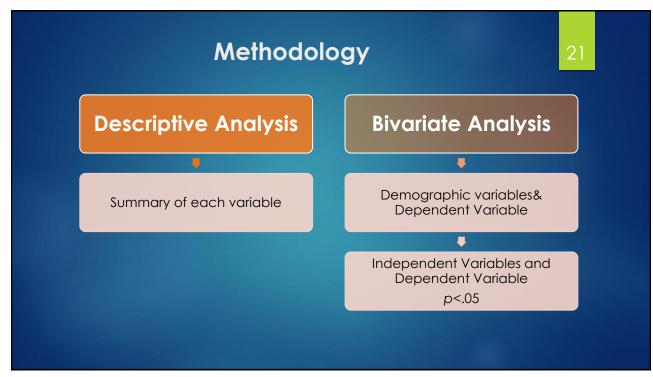


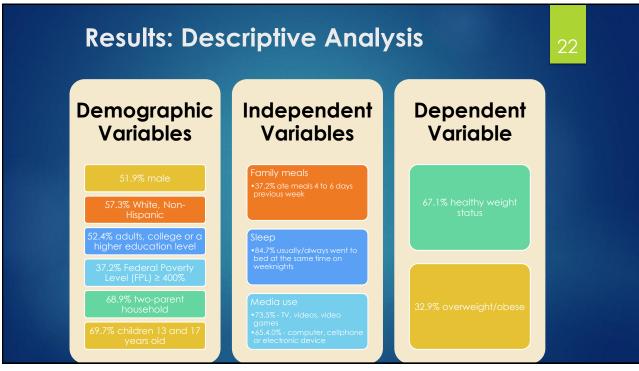


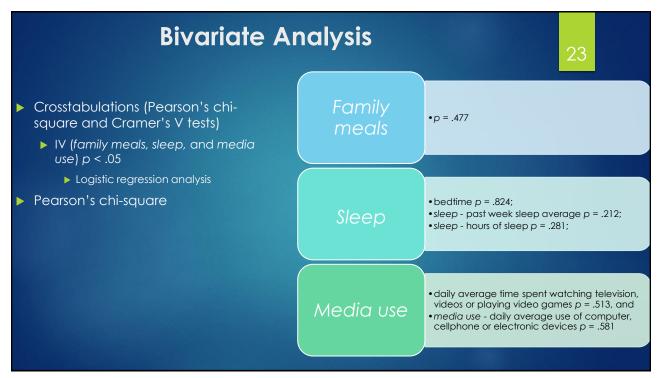


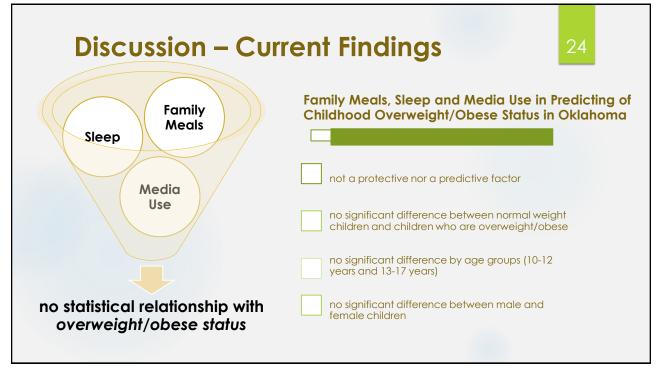


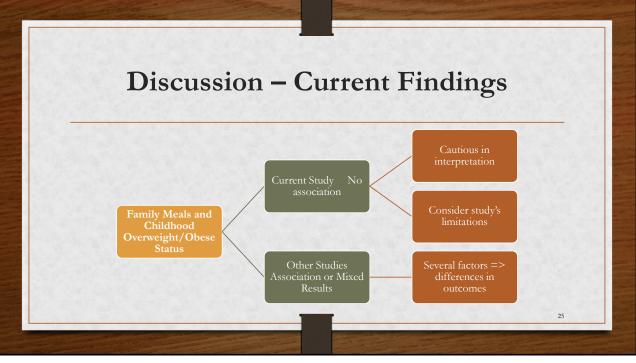




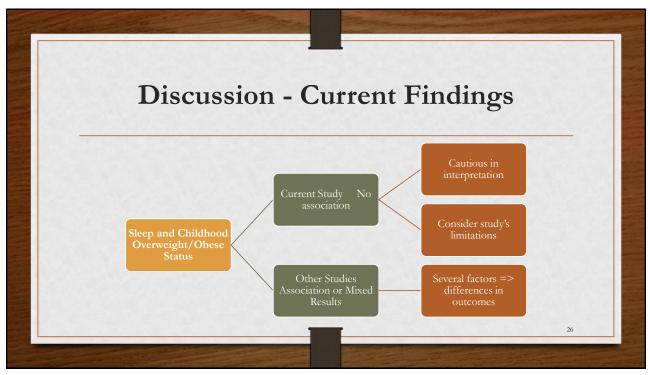


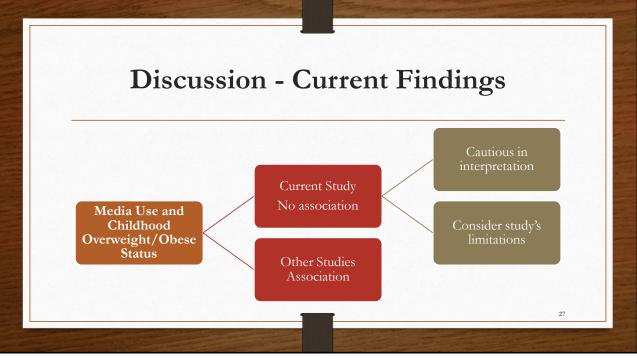


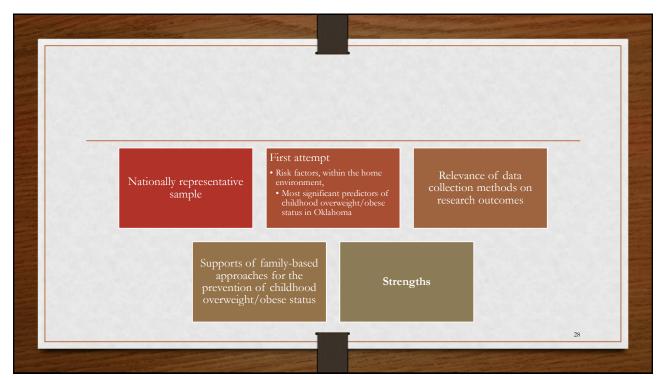




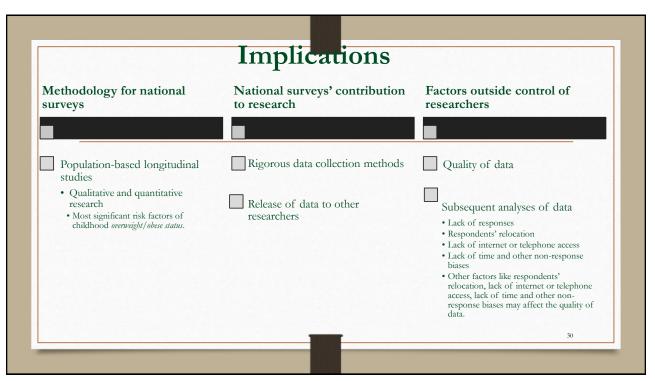




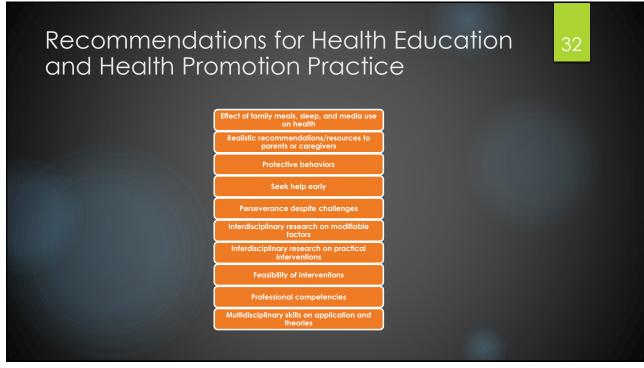




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References

Centers for Disease Control and Precention. (2016). Nativition, Physical activity, & sheary data & statistics. Retrieved from https://www.cell.gov/healthyyouth/data/topics/npauchtm Centers for Disease Control and Precention. (2018). Prevalence of Overweight, Obesity, and Secrer. Obesity Annog Children and Adolescents Agad 2-10 Years: United States, 1963–1965. Through 2015-2016. Retrieved from https://www.cell.gov/nchs/data/besity_child_15_16/ob esity_child_15_16.htm Data Resource Center for Child and Adolescent Health. (n.d.b). *Child health and health are quality means from the XSCH and NISCHCN endored for us by national quality from*. Retrieved from http://www.childhealthdata.org/docs/dtc/endored-nq6-measures-1-pager-10-13-1-pdf.pdf?sfvrs=3



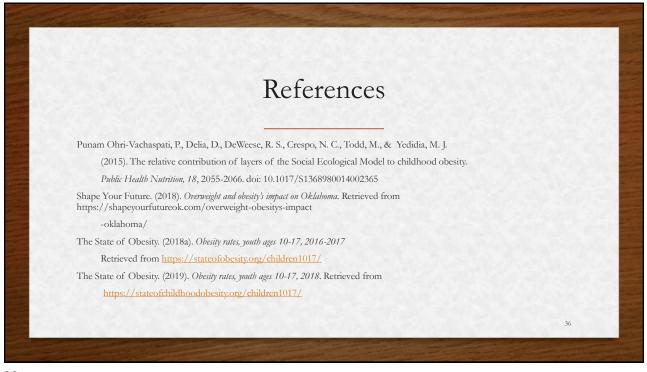
References

Nationwide Children's Hospital. (2020). Complications of childhood obesity. Retrieved from https://www.nationwidechildrens.org/family-resourceseducation/700childrens/2015/08/complications-ofchildhood-obesity

Office of Behavioral and Social Sciences Research. (n.d.) Social and behavioral theories. Retrieved from

http://www.esourceresearch.org/Default.aspx?TabId=734

Ogden, C. L., Carroll, M. D., Lawman, H. G., Fryar, C. D., Kruszon-Moran, D., Kit, B. K., & Flegal, K. M. (2016). Trends in obesity prevalence among children and adolescents in the United States, 1988-1994 through 2013-2014. *Journal of the American Medical Association, 315*, 2292-2299. doi: 10.1001/jama.2016.6361



References

The Triological Society. (2020). Obesity resources. Retrieved from

https://www.enttoday.org/article/how-obesity-can-impact-otolaryngology-patient- care/

U.S. Department of Health and Human Services, (2017). Prevalence of obesity among adult and youth. Retrieved from

https://www.cdc.gov/nchs/data/databriefs/db288.pdf

U.S. Department of Health and Human Services [DHHS], Centers for Disease Control and Prevention [CDC] & National Center for Health Statistics [NCHS], 2016

White, R. O., Thompson, J. R., Rothman, R. L., Scott, A. M. M., Heerman, W. J., Sommer E. C.,

& Barkin, S. (2013). A health literate approach to the prevention of childhood overweight

and obesity. Patient Education and Counseling, 93, 612-618.

doi:http://dx.doi.org/10.1016/j.pec.2013.08.010