Otterbein University

Digital Commons @ Otterbein

Masters Theses/Capstone Projects

Student Research & Creative Work

Spring 4-30-2023

Prevention of Obesity-Related Morbidity & Mortality in Adults

Rachelle Virgin virgin1@otterbein.edu

Follow this and additional works at: https://digitalcommons.otterbein.edu/stu_master

Part of the Cardiology Commons, Cardiovascular Diseases Commons, Community Health and Preventive Medicine Commons, Endocrine System Diseases Commons, Endocrinology, Diabetes, and Metabolism Commons, Family Medicine Commons, Family Practice Nursing Commons, Higher Education Commons, Interprofessional Education Commons, Medical Nutrition Commons, Nutritional and Metabolic Diseases Commons, Preventive Medicine Commons, and the Primary Care Commons

Recommended Citation

Virgin, Rachelle, "Prevention of Obesity-Related Morbidity & Mortality in Adults" (2023). *Masters Theses/Capstone Projects*. 118.

https://digitalcommons.otterbein.edu/stu_master/118

This Project is brought to you for free and open access by the Student Research & Creative Work at Digital Commons @ Otterbein. It has been accepted for inclusion in Masters Theses/Capstone Projects by an authorized administrator of Digital Commons @ Otterbein. For more information, please contact digitalcommons07@otterbein.edu.

Prevention of Obesity-Related Morbidity & Mortality in Adults

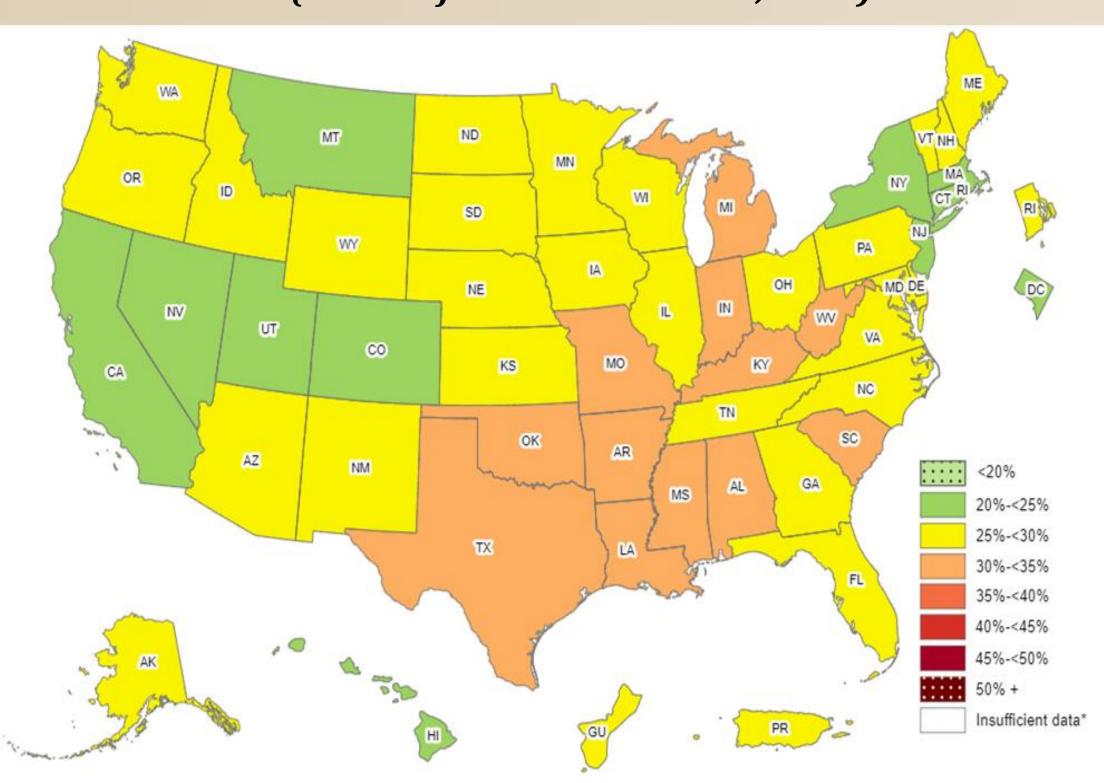
Rachelle Virgin, BSN, RN

Otterbein University, Westerville, Ohio

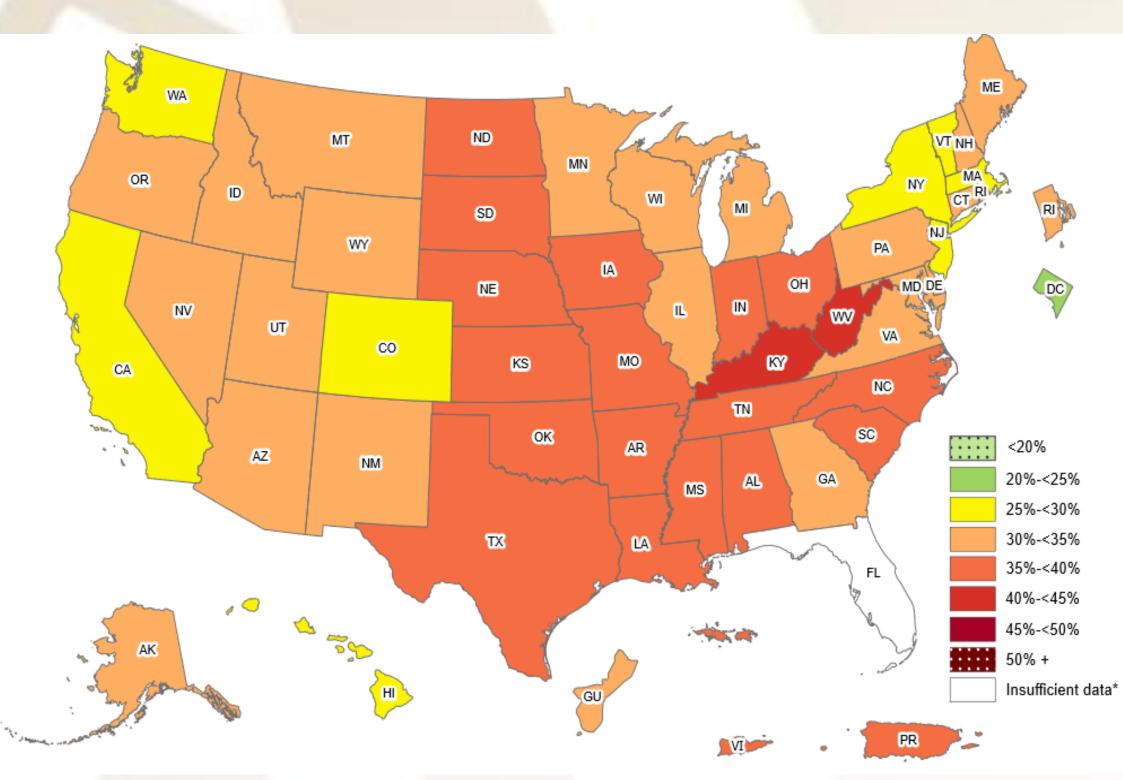
Standards of Care

United States Preventive Services Task Force Grade B recommendation: Providers should offer or provide intensive, multicomponent behavioral recommendations to adults with a body mass index (BMI) of 30kg/m² or higher (United States Preventive Services Task Force, 2018)

Figure 1. Comparison of the prevalence of self-reported obesity among U.S. adults by state and territory, BRFAA, 2011 & 2021 (Centers for Disease Control, 2022)



Prevalence of Self-Reported Obesity Among U.S. Adults by State and Territory, BRFSS, 2011



Prevalence of Self-Reported Obesity Among U.S. Adults by State and Territory, BRFSS, 2021

Intensive, Multicomponent Behavioral Recommendations

- Programs last 1-2 years
- Plans involve 12 or more sessions in first year
- Methods achieve or maintain ≥ 5% weight loss
- Providers encourage selfmonitoring

Pedometers

Food scales
Exercise videos

Patients utilize technology
 Smartphone
 applications

Social networking

Visits include sessions
 with interventionists
 (United States Preventive
 Services Task Force, 2018)

Helpful Resources for Providers

- Diabetes Prevention
 Program (DPP)- successful,
 longstanding, through CDC
- CDC National Registry list recognizes evidence-based local DPP programs
- Local hospitals often offer shorter behavior-based programs (Tello, 2018)

Obesity Treatment & Management

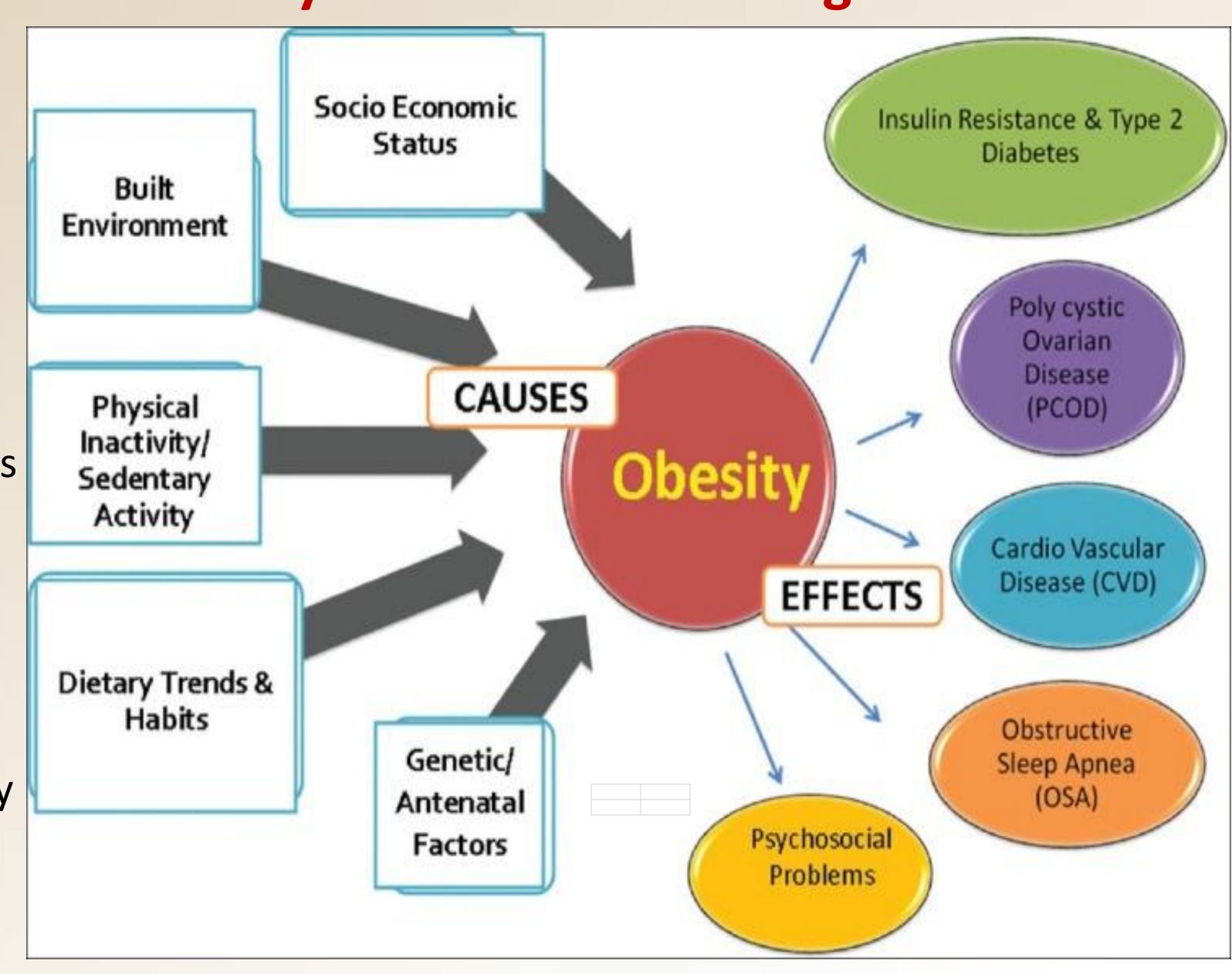


Figure 2. Obesity-complex condition with multiple causes and consequences (Ranjani et al., 2014)

Importance of Treating Obesity in Primary Care

- Strongly associated with chronic diseases such as coronary heart disease, type 2 diabetes, cancers, (liver, kidney, reproductive, and colon), disability, and an increased risk of death before age 65 (United States Preventive Services Task Force, 2018)
- Strong evidence that the onset of type 2 diabetes and cardiovascular disease can be delayed or prevented with lifestyle interventions and risk factor modifications (Patterson et al., 2020)
- Primary care providers report knowing lifestyle behavior change is important but cited a lack of skills, training, and uncertainty about effective and appropriate strategies for managing obesity (Patterson et al., 2020)

Quality Improvement Project: Management of Obesity

Clinical setting:

- Midwestern integrative adult health clinic
- Staff: physicians, nurses, dieticians, chiropractor, massage therapists, acupuncturists, and psychologist
- 123 electronic health records of returning patients were reviewed from dates 8/29/22-10/14/22

Summary of audit findings:

- 0.88/month: Mean number other integrative visits
- 0.19/month: Mean number dietician visits
- Gain of 0.035%/month:
 Median weight change

