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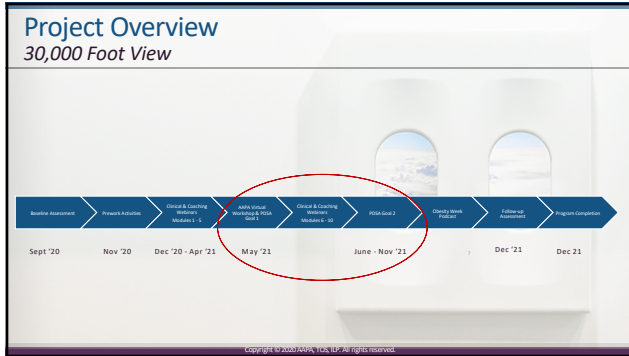
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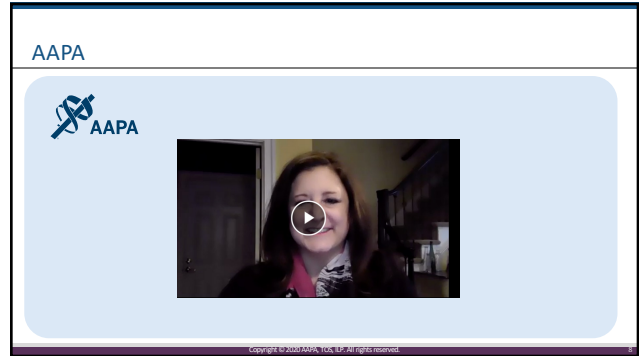
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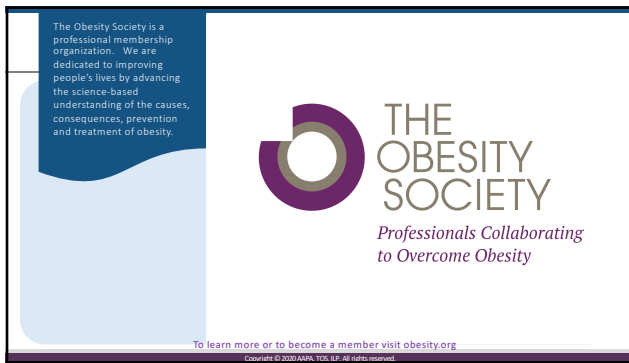
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**TOS**

- All participants have been given free student membership access to TOS so you all could get the "Obesity" journal plus much more!
  - <https://www.obesity.org/journals>
- Commitment to PAs and NPs
  - This program
  - Membership growth and committee engagement

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10

**Join Us for Obesity Week**

- ObesityWeek® is a unique, international event focused on the basic science, clinical application, surgical intervention and prevention of obesity.
- ObesityWeek® brings together world-renowned experts in obesity to share innovation and breakthroughs in science unmatched around the globe.
- ObesityWeek® is the leading conference of its kind in the world, providing an unmatched multi-track schedule:
  - Pre-conference courses (including ABOM review course)
  - Cutting-edge oral abstract and poster presentations covering bench to bedside
  - Networking, mentoring, and advancement events

November 1-5, 2021

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**ILP**

- Informing, activating, **engaging, empowering,** and sustaining
- Providing best-in-class coaching to help you transform practice behaviors
- Working with AAPA's and TOS' SMEs to bring you current evidence-based education
- Working with participants to enhance program engagement and exploring continued CPD activities for Obesity Management

The diagram shows a circular process for CPD with four quadrants: Professional Experience, Training, Self Study, and Community. The cycle is supported by 'ASSESS CAPABILITY AND PLAN LEARNING' at the top and 'ACQUIRE SKILLS AND KNOWLEDGE' at the bottom. The left side is labeled 'APPLY AND EVALUATE'.

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## PDSA Cycle Plan: Getting Started, Review Goals 1 & 2, and Small-group Breakouts

SHERLYN CELONE-ARNOLD, MS  
CHIEF STRATEGY AND ENGAGEMENT OFFICER  
INTEGRATED LEARNING PARTNERS

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## PDSA Session Agenda

- Main Session: Review CQI and PDSA Cycle Planning Basics (20 min)
- Breakout I: (20 min)
  - Preparation Exercise – Begin Planning for PDSA Cycle for Goal 1
- Main Session (22 min)
  - Each group share barriers, ideas of planning, solutions, etc.
- Breakout II: (15 min)
  - Discuss SMART goal for Goal 1 Aim Statement
  - Review PDSA homework assignment
- Main Session (10 min)
  - Next steps
  - QA

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Have you engaged in a continuous quality improvement project in your practice?



Please type your answers in the chat box.

A. Yes

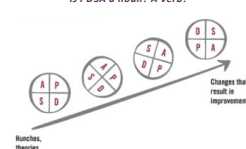
B. No

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## The Purpose of Continuous Quality Improvement (CQI)

Is PDSA a noun? A verb?



Hunches, theories, and ideas

- CQI is a method designed to enhance office processes, performance, and clinical care leading to improved patient and practice outcomes.
- The model used by the **Institute of Healthcare Improvement** is known as, "**The Model for Improvement**," which was developed by Associates in Process Improvement (Langley, et al., 2009).
- The methodology for this project will be based on **Edwards Deming's Plan, Do, Study, Act (PDSA) model** (Deming, et al. 1950).

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## How does CQI Differ From Research?

	CQI	RESEARCH
Purpose	Examines internal processes and guides action toward improvement.	Generates new knowledge, tests, hypotheses
Scope	Examines internal institution/process specific issues	May be able to generalize to other patients, situations and settings
Informed Consent	Generally, not required unless results are being shared externally	Must be obtained if human subjects are involved
Design	Focuses on process	Scientific framework Well-controlled
Subject Selection	Available patients or subpopulations of patients	Based on research purpose, study design, power analysis and statistical models
Results	Used and shared by the practice or organization	Presented and available

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## Models Used in to Measure Performance/Quality Improvement

- Total Quality Management (TQM)
- Continuous Quality Improvement (CQI)
- Lean
- Six Sigma
- Rapid Cycle Improvement (RCI)
- Plan, Do, Study, Act (PDSA)

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### Science of Improvement: How to Improve

Dr Mike Evans: An Illustrated Look at Qual...

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### PDSA Basics: Getting Started

- The **Plan-Do-Study-Act (PDSA)** method provides a straightforward, **iterative approach** to quality improvement in your practice. This approach works on many changes from improving a patient care process to executing a new workflow and practices of all sizes.
- Some questions to ask:

Langley G.J. et al. *The improvement guide: A practical approach to enhancing organizational performance.* San Francisco, CA: Jossey-Bass; 1996.

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### Four Steps to Using Plan-Do-Study-Act

- PLAN:** develop the initiative
- DO:** implement your plan
- STUDY:** check the results
- ACT:** make further improvements

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### Four Steps to Using Plan-Do-Study-Act

- Act**
  - Standardize improvement
  - Develop new plan (e.g., what changes can be made?)
  - Develop a revised plan for next PDSA Cycle
- Plan**
  - Establish aim
  - Assemble resources
  - Examine current approach
  - Identify potential solutions
  - Develop improvement plan
- Study**
  - Complete analysis
  - Compare data to predictions
  - Reflect and summarize on what was learned
  - Study the results
- Do**
  - Execute, plan, and test theory
  - Document problems and observations
  - Begin analysis of data

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### Aim Statements and Setting SMART Goals

- S** Specific → What do you want to achieve in your areas of focus?
- M** Measurable → Why is this goal important to you?
- A** Action Oriented → What steps will you take to achieve it?
- R** Realistic → How do you know that you can achieve it?
- T** Timely → By when do you want to achieve this goal?

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### Aim Statements and Setting SMART Goals

- S** Specific →
- M** Measurable → **Not SMART**  
➢ I will lose 20 lbs.
- A** Action Oriented →
- R** Realistic → **SMART**  
➢ I will lose 20 lbs., at the rate of 2 lbs. per week by July 31, 2021.
- T** Timely →

...and **always, jointly agreed upon by the team and patients**

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### Developing SMART Aim Statements

**S** Specific →

**M** Measurable →

**A** Action Oriented →

**R** Realistic →

**T** Timely →

**Not SMART**

➤ All patients diagnosed with obesity will receive a waist circumference measurement.

**SMART**


➤ All patients 18 y.o. or older, with a diagnosis of obesity (who have a BMI above normal parameters) will receive a waist circumference measurement completed and documented in the EHR at every visit over the next 6 months.

*...and always jointly agreed upon by the team and patients*

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### Measures Must be “Measurable”

- Be very detailed
- If percent or rate, specify numerator/denominator
- If average, identify calculation
- If score, describe how the score is derived
- When measuring such characteristics as “accurate,” “complete,” or “timely,” describe specific criteria




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### Our Project's Goals & Aim Statements

	GOAL 1	GOAL 2
Focus	Improve documentation of obesity diagnosis in EHR	Recommending follow-up visit for patients with diagnosis of obesity.
Objective(s)	GOAL 1: Assess and make diagnosis of obesity and document it in the EHR.	GOAL 2: After making a diagnosis for obesity, document a recommendation for a follow-up visit specifically related to obesity in the EHR.
Aim Statement	80% of all patients with a BMI equal to or greater than 30 will have a diagnosis of obesity that's documented in the EHR by August 13, 2021.	By November 15, 2021, 80% of ten chart audits for patients with a diagnosis of obesity will have a recommendation in the chart for a follow-up visit (within in one month) for the management of obesity.  Chart pull: Patients seen within the past 6 months.
Solutions to support goal.	Come up in breakout	Assignment for August Coaching Webinar
Date range to achieve goal.	June 1 – August 13, 2021	September 1 – November 15, 2021

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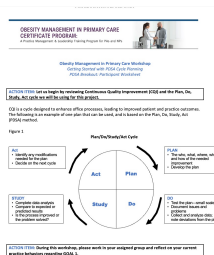
## Breakout I

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### BREAKOUT I: Preparing for Your PDSA Cycle Plans

- **Group exercise:** 20 min
- **Goal:** Discuss preparing for your PDSA Cycle Plans
- **Handout:** Download the worksheet from the chat
- **To Dos:**
  - Select one (1) person from the group to be a note taker/spokesperson for this group so when we go back into the main session, he/she can summarize responses to answers (e.g., why goal may not be met, possible solutions discussed, next steps, etc.)
  - Work through the six questions in the handout as a group. Your facilitator will moderate the discussion.

**NOTE:** you may use the solutions you come up with in the group, or you may modify your plans based on your practice's specific needs.



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## Breakout 2

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### BREAKOUT II: Goal 1 Assignment


- Group exercise:** 15 min
- Goal:** Discuss Goal 1 homework assignment
- Handout:** Download the worksheet from the chat. It will also be in AAPA's learning central for this module.
- To Dos:**
  - Review Goal 1 aim statement, SMART goal set up, the PDSA Form you'll use for this assignment, June Coaching webinars, and what to expect for support from your coaches.
- Start date:** June 1, 2021
- Due date:** Goal 1 PDSA will be completed and uploaded to AAPA's Learning Central by August 13, 2021

**NOTE:** You will receive an email the week of May 31st with more information about about details for this assignment and resources in the PDSA module.



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## Main Session

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### Pitfalls to Avoid

- Forgetting linkage of aim and measurement
- Starting too big
- Making data collection too hard
- Not using graphical displays
- Using computer generated default graphs
- Not planning to do small pretest/debugging

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### Our Project's Goals & Aim Statements

	GOAL 1	GOAL 2
Focus	Improve documentation of obesity diagnosis in EHR	Recommending follow-up visit for patients with diagnosis of obesity.
Objective(s)	GOAL 1: Assess and make diagnosis of obesity and document it in the EHR.	GOAL 2: After making a diagnosis for obesity, document a recommendation for a follow-up visit specifically related to obesity in the EHR.
AIM Statement	80% of all patients with a BMI equal to or greater than 30 will have a diagnosis of obesity that's documented in the EHR by August 13, 2021.	By November 15, 2021, 80% of ten chart audits for patients with a diagnosis of obesity will have a recommendation in the chart for a follow-up visit (within in one month) for the management of obesity.  Chart pull: Patients seen within the past 6 months.
Solutions to support goal.	Come up in breakout	Assignment for August Coaching Webinar
Date range to achieve goal.	June 1 – August 13, 2021	September 1 – November 15, 2021

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### Timing of PDSA Cycle Plans

**GOAL 1**

80% of all patients with a BMI equal to or greater than 30 will have a diagnosis of obesity that's documented in the EHR by August 13, 2021.

TASK	DUE DATE
Plan	6/01 – 6/11
Do	6/14 – 7/16
Study	7/19 – 7/30
Do	8/2 – 8/13

**Goal 2**

By November 15, 2021, 80% of ten chart audits for patients with a diagnosis of obesity will have a recommendation in the chart for a follow-up visit (within in one month) for the management of obesity.  
  
Chart pull: Patients seen within the past 6 months.

TASK	DUE DATE
Plan	09/01 – 09/15
Do	6/15 – 10/15
Study	10/17 – 10/29
Do	11/1 – 11/15

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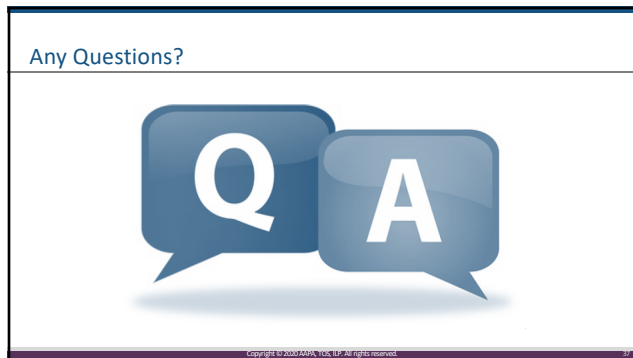
### Next Steps

- You will get a **detailed email with PDSA action items** on **May 28<sup>th</sup>**
- This **Workshop Module will launch** on **Friday, May 28<sup>th</sup>**. Be sure to check AAPA's Learning Central next weekend! To access PDSA materials go to:
  - The "assignments" tab to download your PDSA Goal 1 Worksheets
  - You will be required to upload your **completed** PDSA cycle worksheets for Goal 1 on August 13<sup>th</sup>
  - In the "resources" section you will find links to the IHI video, preparation handout, and an article for your review
- PDSA start date** for Goal 1 is **June 1<sup>st</sup>**
- June Coaching Sessions** will focus on PDSA Cycle plans for Goal 1
- Please **schedule office hours** with your coach too if needed in **June**

*This is an independent study exercise.  
Completing these assignments are required to obtain your 10 AAPA CME credits and final certificate.*

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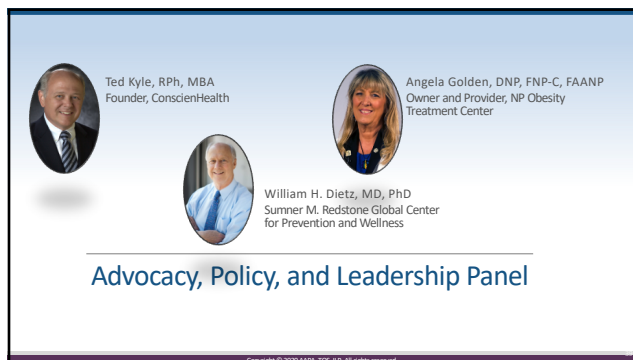
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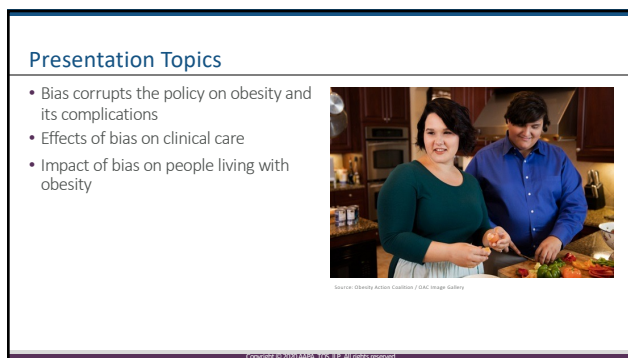
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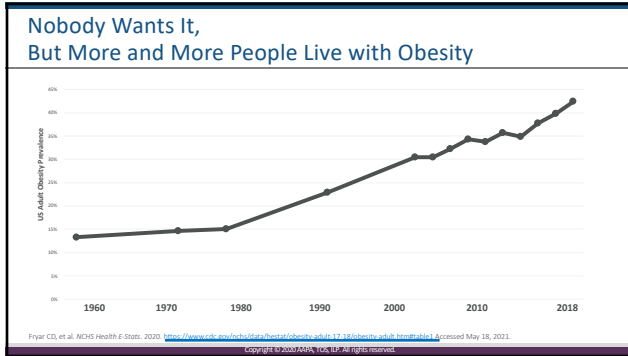
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### The Costs of Untreated Obesity Are Piling Up

- Declining US lifespan
- Reversing gains in heart disease
- Growing prevalence of diabetes, liver disease, and related cancers
- Significant effects on productivity and competitiveness
- Half of the population will have obesity by the end of the decade

Ward ZL, et al. N Engl J Med. 2019;381(25):2440-2450. Copyright © 2020 AAPA, TOS, ILP. All rights reserved.

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### Two Kinds of Bias Affect Our Response to Obesity

**Intellectual bias** favoring personal convictions

**Weight bias** directed at people with obesity

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### What Is Weight Bias?

- Negative attitudes
  - Beliefs
  - Judgments
  - Stereotypes
  - Discriminatory acts
- Based solely on weight
- Subtle or overt
- Explicit or implicit

Little Up, photograph © Obesity Action Coalition / OAC Image Gallery. Copyright © 2020 AAPA, TOS, ILP. All rights reserved.

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### Explicit Bias Is Down, But Implicit Bias Is Growing

Dimension	Explicit Bias Trend 2007-2016	Implicit Bias Trend 2001-2016
Sexuality	↓	↓
Race	↓	↓
Skin Tone	↓	↓
Age	↓	↔
Disability	↓	↔
Weight	↓	↑

CharResearch TES, et al. Psychol Sci. 2019;30(2):174-192. Copyright © 2020 AAPA, TOS, ILP. All rights reserved.

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### Living with Bias and Stigma Makes People Sicker

*Pathways from stress to obesity*

Tomiyama AJ. *Annu Rev Psychol.* 2019;70:703-718.  
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### COVID-19 Concerns for People with Obesity

- Patients avoiding healthcare
- Increased fear of being discounted
- Extreme fear of infection and hospitalization
- Concerns about changes in eating habits, exercise, weight gain

Let's Get Back photograph © Obesity Action Coalition / DMJ Image Gallery  
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### Obesity Grows from Complex, Adaptive Systems

Vandenbroeck P, et al. 2007. [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/295154/07\\_1179\\_obesity\\_building\\_system\\_map.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/295154/07_1179_obesity_building_system_map.pdf). Accessed May 27, 2021.  
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### But Bias Favors Simplistic Policy Solutions

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### Because of Bias, Self-care is Often the Only Option for Obesity Care

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### But Good Obesity Care Requires More Options

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### Is Weight Bias a Risk Factor for Poor Outcomes?

**Yes**

- Blame and shame lead to worse clinical outcomes
- Bias interferes with access to care
- Bias may lead to reliance on ineffective policies

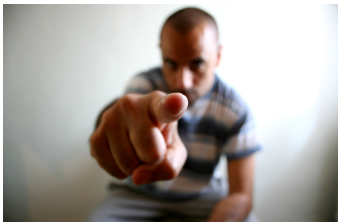


Photo: Photograph © iStock.com/Alexander / Photo


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### What's Required for Progress?

**Progress will require:**


- **Objectivity** to replace bias
- **Curiosity** about obesity and the people it affects
- **Care** for these people



Progress © iStock.com/Alexander / Photo

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### Obesity Advocacy, Policy, and Leadership

WILLIAM H. DIETZ, MD, PHD  
SUMNER M. REDSTONE GLOBAL CENTER FOR PREVENTION AND WELLNESS

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### What Works for Obesity Prevention and Control

**Federal Programs**

- Healthy Hunger-free Kids Act
- Changes in the WIC package
- Treat and Reduce Obesity Act (TROA)

**State**

- Reimbursement policies for obesity care

**Community Clinic**

WIC, women, infants, and children.

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### The Healthy, Hunger-free Kids Act (HHFKA) Legislation and Its Impact on Meal Quality and Obesity

Passed by Congress in 2010  
Implemented in schools by 2012

- 51% of grains: whole grains
- Required students to take 1/2 cup fruit and vegetable
- Offer 1 cup flavored or unflavored fat-free or 1% milk

Healthy Eating Index 2010 - Lunch			
K-12 Participants	Pre*	Post*	
Low income	42.7	54.6	
Low-middle income	40.4	54.8	
Middle-high income	42.7	55.5	
Non-participants	36.0	37.9	

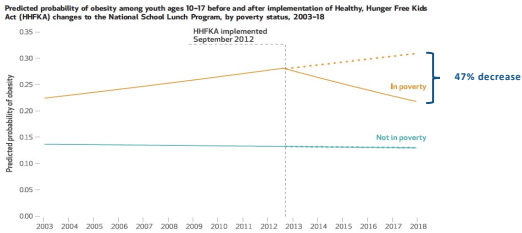
\*Pre: 2007-2010 Post: 2013-2016  
Kinderlehrer K, et al. JAMA. 2020; 324:359-368.

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### Effect of the HHFKA on Prevalence of Obesity National Survey of Children's Health

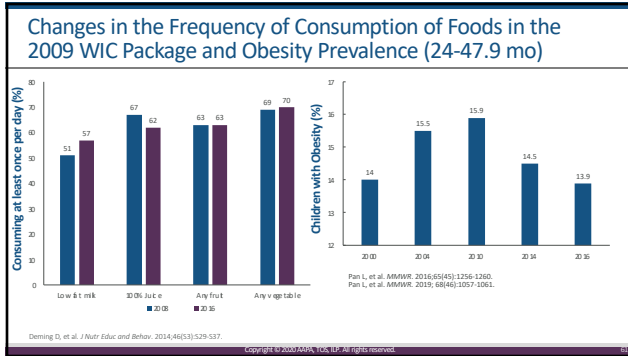
Predicted probability of obesity among youth ages 10-17 before and after implementation of Healthy, Hunger Free Kids Act (HHFKA) changes to the National School Lunch Program, by poverty status, 2003-18



Kennedy EL, et al. Health Affairs. 2020;39:1122-1129.

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### What Works for Obesity Prevention and Control

**Federal Programs**

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- Treat and Reduce Obesity Act (TROA)

**State**

- Reimbursement policies for obesity care

**Community Clinic**

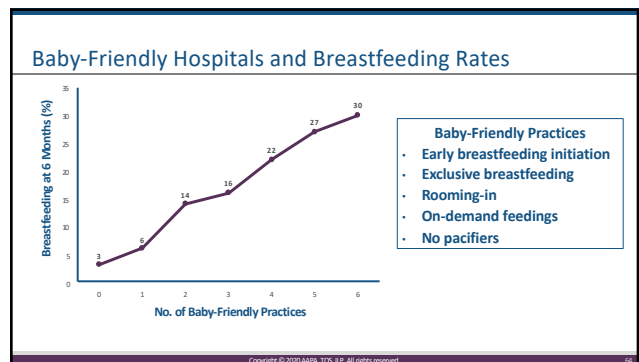
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### What Works for Obesity Prevention and Control

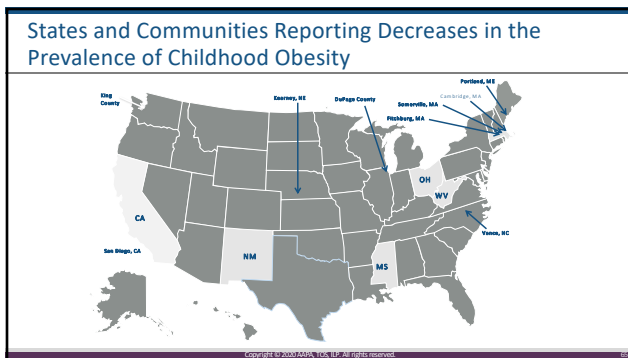
**Community**

- Local advocacy
- Baby-friendly hospitals
- Local policies including schools
  - DC Healthy Youth and Schools Amendment
  - Healthy Communities Study
- Sugary drink taxes
- Healthy neighborhoods
- Physical activity
- Physical transportation design

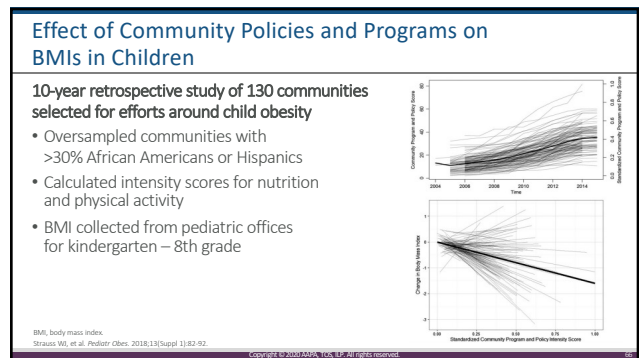
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**POLICY STATEMENT** Organizational Principles to Guide and Define the Child Health Care System and to Improve the Health of Children

**American Academy of Pediatrics**  
DEDICATED TO THE HEALTH OF ALL CHILDREN

### Public Policies to Reduce Sugary Drink Consumption in Children and Adolescents

**Recommendations**

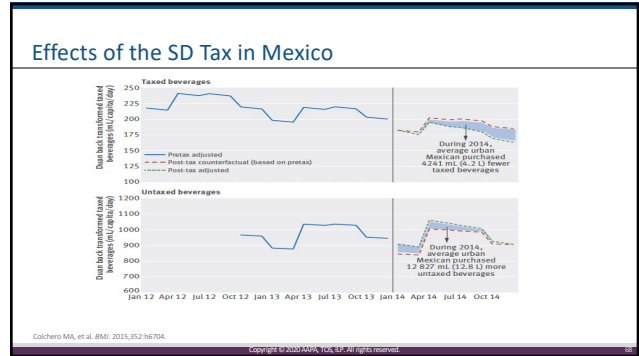
- Support policies that increase the price of sugary drinks (SDs)
- Support federal and state efforts to decrease marketing of SDs
- Hospitals should become models for strategies to disincentivize SD purchases

**abstract**  
Excess consumption of added sugars, especially from sugary drinks, poses a grave health threat to children and adolescents, disproportionately affecting children of minority and low-income communities. Public policies, such as those detailed in this statement, are needed to reduce the prevalence and consumption of added sugars and improve health.

**STATEMENT OF THE PROBLEM**  
Excess consumption of added sugars, especially from sugary drinks, contributes to the high prevalence of childhood and adolescent obesity,<sup>1,2</sup> especially among children and adolescents who are socioeconomically vulnerable.<sup>3,4</sup> It also increases the risk for dental decay,<sup>5</sup> cardiovascular

Muth ND, et al. Pediatrics. 2019;143:e20190282.  
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### Community Strategies to Increase Physical Activity

- Increase physical transport
- Build and promote public transport
- Connect parks to people
- Improve neighborhood safety
- Provide safe routes to school
- School PE and recess
- Social supports

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### What Works for Obesity Prevention and Control

**Federal Programs**

- Healthy Hunger-free Kids Act
- Changes in the WIC package
- Treat and Reduce Obesity Act (TROA)

**State**

- Reimbursement policies for obesity care

**Community Clinic**

- <https://stop.publichealth.gwu.edu/whyweightguide>

WIC, women, infants, and children.  
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**THE OBESITY SOCIETY**  
AAPA  
AMERICAN ACADEMY OF PEDIATRICS

### Obesity Advocacy, Policy, and Leadership

ANGELA GOLDEN, DNP, FNP-C, FAANP  
OWNER AND PROVIDER, NP OBESITY TREATMENT CENTER  
SCOPE CERTIFIED  
OMA ADVANCED CERTIFICATE OF EDUCATION IN OBESITY MEDICINE

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### Describe

Describe efforts PAs and NPs can take related to leadership to improve care for patients affected by obesity

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### What is Leadership?

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### What is Leadership?

- Shared influencing process to meet common purpose
- Process of social influence, which maximizes the efforts of others, towards the achievement of a goal – CEO of LEADS – Kevin Kruse<sup>1</sup>
- “Reflect the assumptions that involve a process whereby intentional influence is exerted by one person over other people to guide, structure, and facilitate activities and relationships in a group or organization”<sup>2</sup>

1. Kruse, K. Forbes. <https://www.forbes.com/sites/kevinkruse/2013/04/09/what-is-leadership/?h=363301035800>. Accessed May 13, 2021. 2. Yukl, G. Leadership in organizations. Custom ed. Pearson Custom Publishing; 2006.

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### Why Consider Leadership?

- Develop expertise
- Challenge status quo
- Enhance clinical skills
- Developing more leaders
- Make vision come to fruition
- Improve healthcare delivery and patient outcomes

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### Where Does Leadership Occur?

Clinical

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### Where Does Leadership Occur?

Research

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### Where Does Leadership Occur?

Education

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### Where Does Leadership Occur?

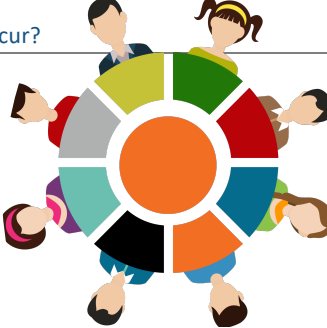
Professional organizations

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### Where Does Leadership Occur?

Community-based settings



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### Identify

Identify ways to become a leader in your practice or community for patients affected by obesity

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### Type of Leader for Organizations

- Coaching
- Commanding
- Democratic
- Visionary

Majority of leadership occurs from the middle for changes in organizations



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### Identify Process for Organizational Change


- Establish a sense of urgency
- Create a guiding coalition
- Develop a vision and strategy
- Communicate the change vision
- Empower broad-based action
- Generate short-term wins
- Anchor new approaches in the culture

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### Where Can You Lead on Monday?

- Teaching
  - Colleague
  - Class for a community organization
    - Church, Credit Union, Food store
  - Legislator
  - University class
- Advocacy letters
- Join the Obesity SPG for NPs in AANP, PAs in Obesity Medicine a Special Interest Group in AAPA



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### Key Take-aways



- 01 Leadership occurs everywhere
- 02 Start small and build
- 03 Start where you are
- 04 Use your learning to teach others

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[www.npobesitytreatment.org](http://www.npobesitytreatment.org)


**Bill Dietz**  
[bdietz@gwu.edu](mailto:bdietz@gwu.edu)  
<https://stop.publichealth.gwu.edu/>

For an additional Obesity Resource: <https://BookHip.com/ICPMFX>

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### Any Questions?



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### Faculty and Disclosure Statement



Dr. Butsch has been the Director of Obesity Medicine in the Bariatric and Metabolic Institute (BMI) at the Cleveland Clinic since 2018. Prior to this he was an obesity medicine physician at the Massachusetts General Hospital (MGH) Weight Center and an instructor of medicine at Harvard Medical School from 2008-2017. He completed a clinical nutrition fellowship at the University of Alabama at Birmingham in 2007 and was one of first two physicians in the United States to complete subspecialty fellowship in obesity medicine in 2008, established at MGH/HMS. He is a diplomate of the American Board of Obesity Medicine and a Fellow of the Obesity Society.

Dr. Butsch's clinical interests focus on the pharmacological management, specifically the use of combination therapies in patient with severe obesity, bariatric surgical patients and special populations with severe obesity. He heads clinical research in obesity medicine at the BMI, including clinical trials in obesity pharmacotherapy. His academic interests focus on obesity and nutrition education. He was the Curtis Proud Fellow in medical education at HMS in 2010, Director of Clinical Nutrition course at HMS from 2009-2018 and the Director of Education in the Division of Nutrition at HMS from 2014-2018. He is an author of numerous chapters and manuscripts and lectures nationally and internationally on the management of obesity.


Dr. Butsch is a national leader in obesity education and has been instrumental in the creation of obesity competencies in the United States and abroad. He created and is the director of the subspecialty fellowship in obesity medicine at the Cleveland Clinic. He has helped shape the current state of education and training in obesity medicine in the United States as a co-creator of obesity education programs, including HMS's Obesity Medicine Board Review course, as a creator/director of the World Federation's SCOPE Leadership Programme, which trains international physicians in obesity medicine.

He serves in leadership roles as director in Cleveland Clinic's CME training courses in obesity medicine (United States and Chile), and as Chair of several committees in professional societies (eg. The Obesity Society and the Massachusetts Medical Society). He has focused his attention in advocacy and policy in obesity and has been instrumental in writing policy to reduce weight stigma and discrimination in the state of Massachusetts, improve coverage for anti-obesity medications (OAG), and in support of the Treat and Reduce Obesity Act at the federal level.

**Novo Nordisk** consultant

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### Faculty Disclosure Statement

Ted Kyle, RPh, MBA is a pharmacist and health innovator who serves on the Board of Directors for the Obesity Action Coalition and advises The Obesity Society on advocacy.


He is a tireless advocate for people living with obesity and his widely-read daily commentary, published at [consicjenhealth.org/news](http://consicjenhealth.org/news), reaches an audience of more than 15,000 thought leaders in health and obesity.

**Gelesis, Johnson & Johnson, Novo Nordisk, Nutrisystem;** professional fees

Personal biases that favor: evidence-based interventions for both prevention and treatment, respect for people living with obesity, critical thinking about all evidence

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### Faculty and Disclosure Statement

Dr. Dietz is the Chair of the Summer M. Redstone Global Center for Prevention and Wellness and the STOP Obesity Alliance at the Milken Institute School of Public Health at George Washington University. From 1997-2012 he was the Director of the Division of Nutrition, Physical Activity, and Obesity in the Center for Chronic Disease Prevention and Health Promotion at the CDC.

In 1995 he received the John Walter award from the American School Food Service Association for his efforts to improve the school lunch. Dr. Dietz served on the 1998 Dietary Guidelines Advisory Committee. In 1997, Dr. Dietz received the Brock Medal of Excellence in Pediatrics from the New York Academy of Medicine. In 1998, Dr. Dietz was elected to the Institute of Medicine of the National Academy of Sciences. In 2000, he received the William W. Anderson Award from the American Alliance for Health, Physical Education, Recreation and Dance, and was recognized for excellence in his work and advocacy by the Association of State and Territorial Public Health Nutrition Directors.

In 2002, he was made an honorary member of the American Dietetic Association and received the Holroyd-Sherry award for his contributions to the field of nutrition. In 2003, he received the Outstanding Achievement Award from the American Academy of Pediatrics for outstanding research related to nutrition of infants and children. In 2008 he received the David Bar-Or award from the Obesity Society for excellence in pediatric obesity research. In 2012, Dr. Dietz received a Special Recognition Award from the American Academy of Pediatrics Provisional Section on Obesity, and the Outstanding Achievement Award from the Georgia Chapter of the American Academy of Pediatrics.

He was the co-chair of the Lancet Commission on Obesity's 2019 report on the Global Syndrome of Obesity, Undernutrition, and Climate Change. He is the author of over 200 publications in the scientific literature, and the editor of four books, including *Obesity in Adults and Children* (4th edition in press), and the American Academy of Pediatrics Nutrition Evidence Report series.

**Novo Nordisk;** research grant

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### Faculty and Disclosure Statement

Angela Golden, DNP, FNP-C, FAANP is a current fellow and past president of the American Association of Nurse Practitioners (AANP). Her tenure as the president of the AANP gives her a unique and overarching perspective of the multifunctional role of the Nurse Practitioner.

Angela has her own primary care practice, NP from Home, LLC, and NP Obesity Treatment Clinic, where she provides clinical services as a family nurse practitioner. Angela has a great deal of experience as a consultant in the development of patient education materials. She has given interviews on obesity treatment and authored several peer-reviewed articles and book chapters related to obesity as well as other topics for advanced practice nursing.


Angela has recently published a book, *Treating Obesity in Primary Care*, through Springer Publishing. She presents nationally and internationally on advanced practice with an emphasis on health policy, leadership and clinical care.

**Novo Nordisk;** speakers' bureau and consultant for obesity

**Unjury;** consultant for nutrition

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### Application to Practice Success Stories


AMY INGERSOLL, PA-C, MMS, FOMA  
OBESITY MEDICINE PROGRAM DIRECTOR, FORTE  
PRESIDENT, ARIZONA OBESITY ORGANIZATION

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### BREAKOUT: *Let's Share Lessons Learned*


- Group exercise:** 15 min
- Goal:** Share success stories on how you applied lessons learned from this program into practice.\*
- Breakouts:** 4
  - Amy
  - Angie
  - Sherlyn
  - Stephanie



**\*NOTE:** in addition to success stories, you may also share "glorious failures." These are the lessons learned when things did not go according to plan.

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### Addressing Cultural Diversity in Obesity Management

FATIMA CODY STANFORD, MD, MPH, MPA, MBA, FAAP, FACP, FAHA, FAMWA, FTOS  
OBESITY MEDICINE & NUTRITION, HARVARD MEDICAL SCHOOL  
AMERICAN BOARD OF OBESITY MEDICINE DIPLOMATE

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### Faculty and Disclosure Statement

Dr. Stanford practices and teaches at Massachusetts General Hospital (MGH)/ Harvard Medical School (HMS) as one of the first fellowship-trained obesity medicine physician in the world.

She has served as a health communications fellow at the Centers for Disease Control and Prevention and as a behavioral sciences intern at the American Cancer Society. Upon completion of her MPH, she received the Gold Congressional Award, the highest honor that Congress bestows upon America's youth.

In addition to numerous other honors and awards, Dr. Stanford was selected for The Obesity Society Clinician of the Year in 2020. In 2021, she has been awarded the MMS Grant Rodkey Award for her dedication to medical students and the AMA Dr. Edmond and Rima Cabbabe Dedication to the Profession Award, which recognizes a physician who demonstrates active and productive improvement to the profession of medicine through community service, advocacy, leadership, teaching, or philanthropy.

**Calibrate, Doximity, GoodRx, and Novo Nordisk:** consultant  
**Amazon:** research support

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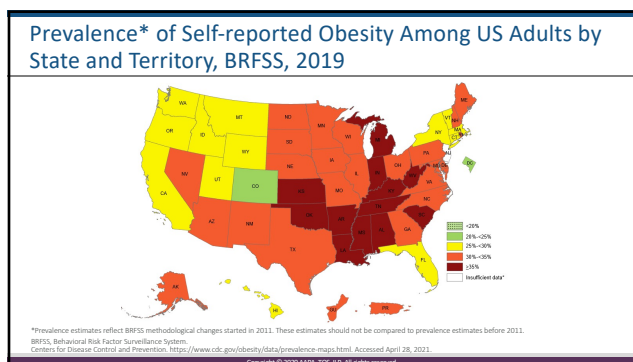
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### Objectives

<b>Discuss</b>	Discuss racial and ethnic disparities in the prevalence, treatment, and pathophysiology of obesity.
<b>Describe</b>	Describe issues surrounding obesity and socioeconomic status, education level, and provider diagnosis in obesity.
<b>Recognize</b>	Recognize differences in response to treatment of racial and ethnic minorities with regards to pharmacotherapy and weight loss surgery.

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### Test Your Knowledge Question #1

**Which group has the highest rates of obesity in the United States based upon current estimates?**

- A. Non-Hispanic White
- B. Non-Hispanic Black
- C. Hispanic
- D. Mixed Race

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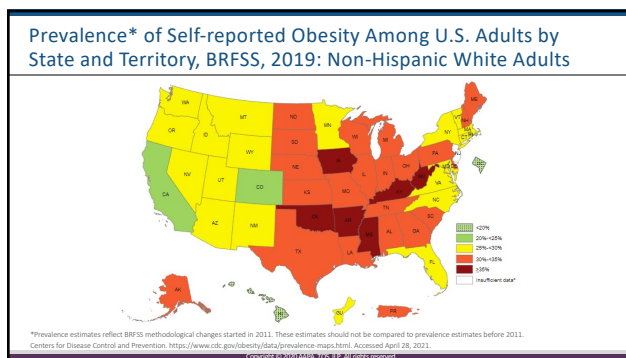
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### Test Your Knowledge - Answer #1

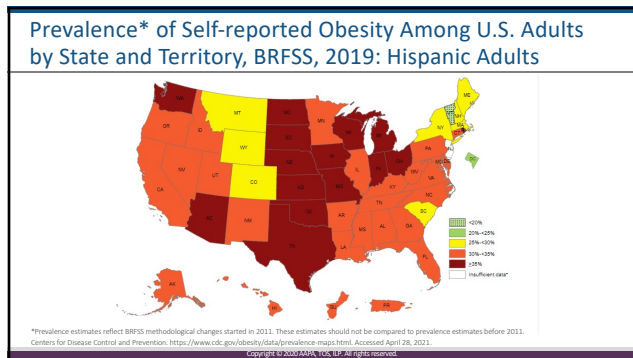
**Answer: B.**  
Non-Hispanic Blacks have the highest prevalence of obesity in the US.

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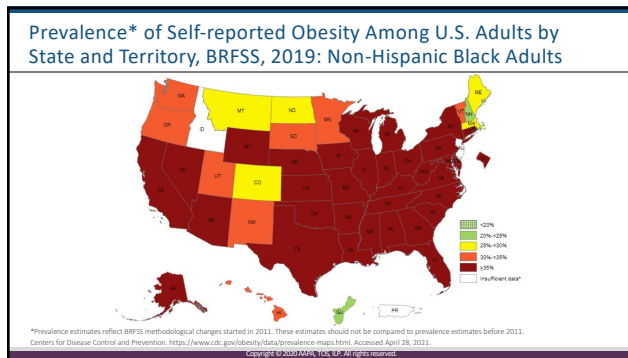
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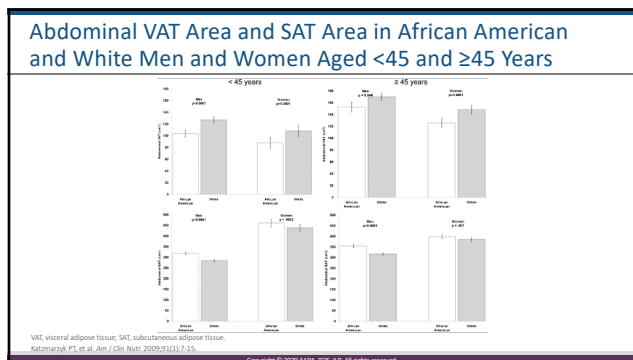
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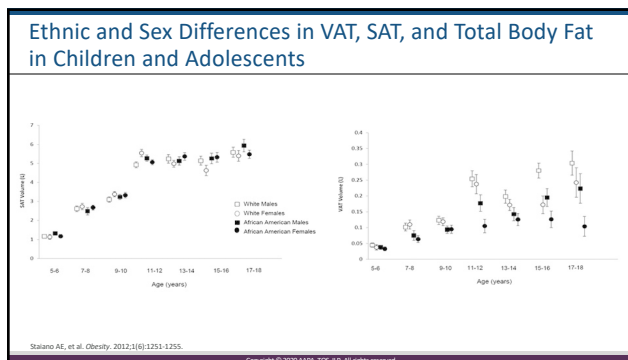
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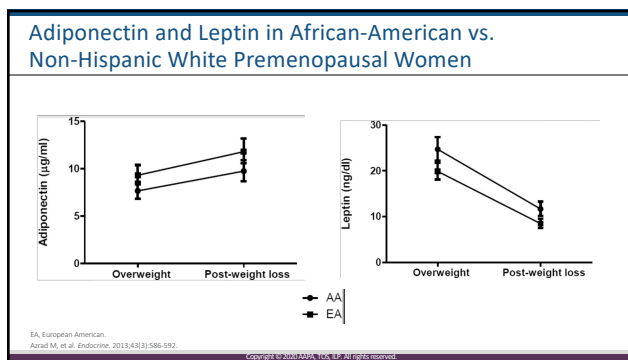
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### Markers of Inflammation in African-American vs. Non-Hispanic White Patients

- 126 healthy, premenopausal women, BMI: 27-30 kg/m<sup>2</sup>
- Placed on a weight-loss intervention consisting of diet and/or exercise until a BMI <math>< 25</math> kg/m<sup>2</sup> was achieved
- Fat distribution was measured with computed tomography, and body composition with dual-energy X-ray absorptiometry
- Serum concentrations of TNF- $\alpha$ , sTNFR-I, sTNFR-II, CRP, and IL-6 were assessed
- All markers of inflammation decreased following weight loss among NHW, whereas only IL-6 and CRP decreased following weight loss in AA

AA, African American; CRP, C-reactive protein; IL-6, Interleukin-6; NHW, non-Hispanic White; TNF- $\alpha$ , tumor necrosis factor- $\alpha$ ; sTNFR, soluble tumor necrosis factor receptor.  
 Fisher G, et al. *Obesity (Silver Spring)*. 2012;20(4):715-720.  
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### Insulin, Estrogen, and Fat Mass in African-American vs. European American Adolescent Girls

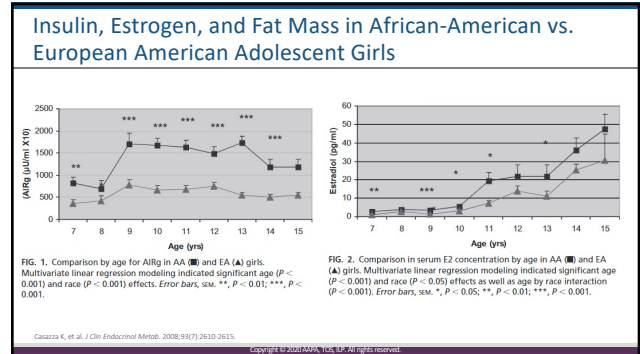
**TABLE 1.** Descriptive statistics at baseline and ages of menarche and adrenarche for all children combined and by race

	EA (n = 80)	AA (n = 57)	Total (n = 137)
Age (yr)	8.1 ± 1.4	7.9 ± 1.9	8.0 ± 1.6
Total fat mass (kg)	9.6 ± 5.6	11.0 ± 7.1	10.2 ± 6.3
Lean tissue mass (kg)	20.0 ± 4.2	20.9 ± 5.8	20.4 ± 4.9
BMI	22.39 ± 1.0	21.04 ± 0.76	21.78 ± 0.64
BMI z-score	0.87 ± 0.18	0.84 ± 0.17	0.86 ± 0.12
Height (cm)	145.25 ± 2.2	146.40 ± 2.6	145.77 ± 1.7
Fasting insulin (μU/ml)	10.5 ± 2.2*	15.4 ± 9.0*	12.4 ± 8.3
SI (x 10 <sup>-4</sup> min <sup>-1</sup> μg/μU/ml)	5.65 ± 1.4	3.42 ± 0.51	4.46 ± 0.75
AIIG (μU/ml × 10 min)	732 ± 346 <sup>a</sup>	1639 ± 361 <sup>b</sup>	1216 ± 654
E2 (pg/ml)	2.1 ± 6.2	3.8 ± 4.0	2.8 ± 5.3
Age at menarche (yr)*	11.2 <sup>a</sup>	10.7 <sup>b</sup>	11.6
Age at adrenarche (yr)*	9.3 <sup>a</sup>	8.5 <sup>b</sup>	9.1

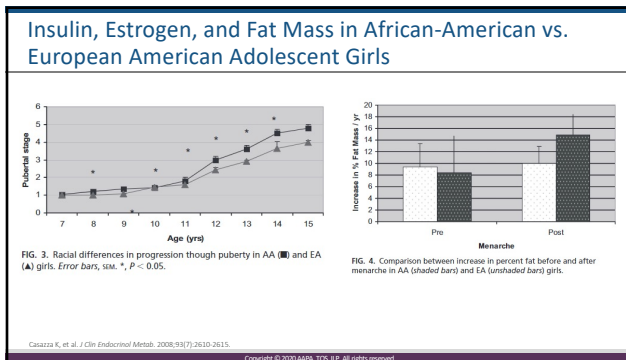
\*\* Means with different superscripts are significantly different (P < 0.05).  
\* Adjusted for age, race, body composition, E2, and AIIG.

AIIG, acute insulin response to glucose; E2, estradiol.  
Casazza K, et al. / Clin Endocrinol Metab. 2008;93(7):2610-2615.

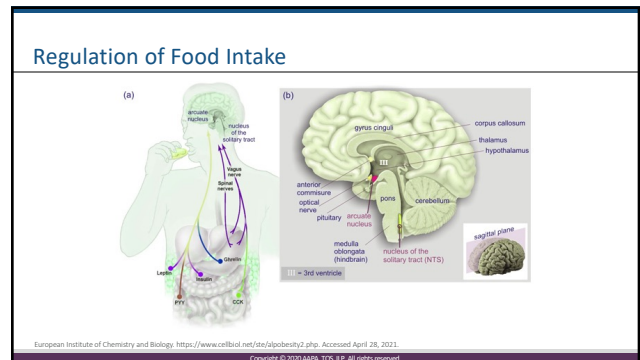
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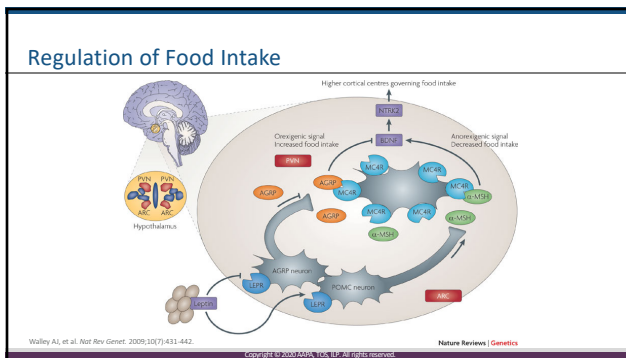
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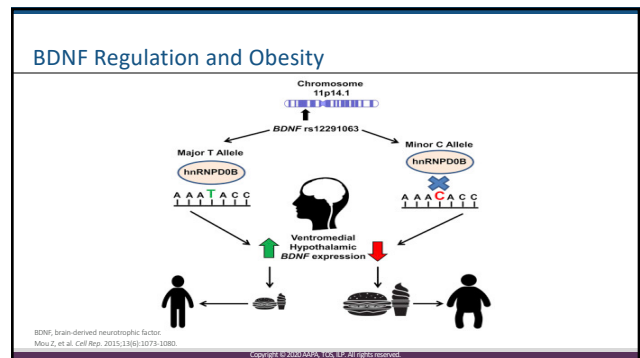
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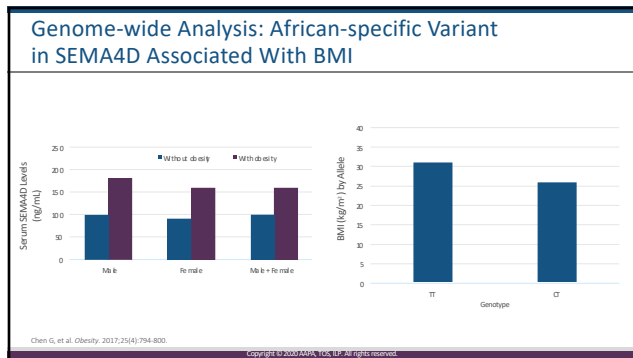
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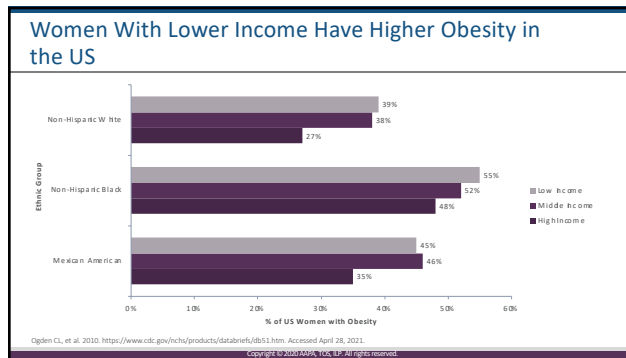
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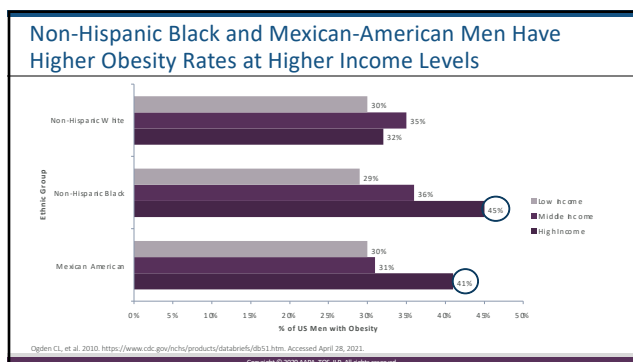
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### Ethnic Minorities are Less Commonly Diagnosed with Overweight and Obesity

NHANES 1999-2004 for Persons with BMI>30

Race/Ethnicity	Odds Ratio
Non-Hispanic White	1.0
Non-Hispanic Black	0.6
Hispanic	0.7

Davis NL, et al. Obesity (Silver Spring). 2009;17(11):2110-2113.

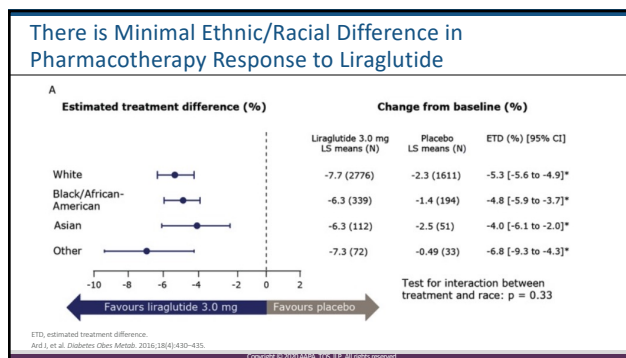
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### In Some Studies, Ethnic Minorities Have Smaller Response to Weight Loss Pharmacotherapy

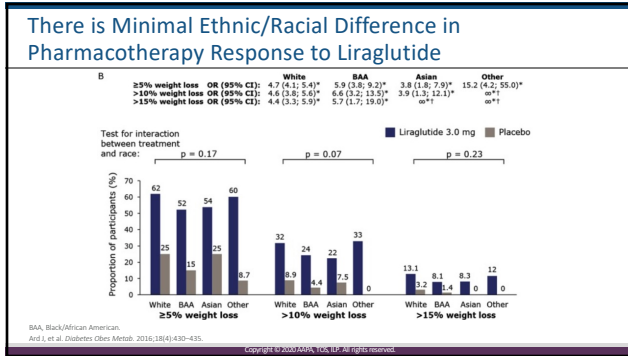
	Sibutramine	Orlistat
Non-Hispanic Whites	-4.4kg	-2.8 kg
Ethnic Minorities	-2.7 kg	-2.3 kg

Osei-Awley G, et al. Diabetes Obes Metab. 2011;13(5):385-393.

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### Test Your Knowledge Question #2

What explanation has **NOT** been posed as a reason for potential differences in weight status in racial and ethnic minority patients compared to majority patients?

- Increased energy intake
- Decreased energy expenditure
- Decreased life stressors
- Genetics

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### Test Your Knowledge - Answer #2

Answer: C.

Racial and ethnic minorities have increased life stressors to include issues such as structural racism, limited career options, and family illness/death.

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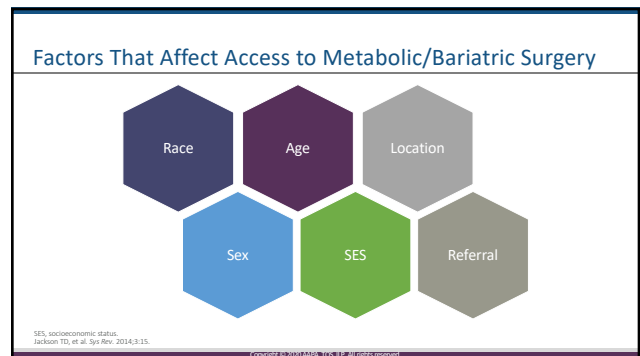
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### Potential Reasons for Ethnic Disparities in Obesity

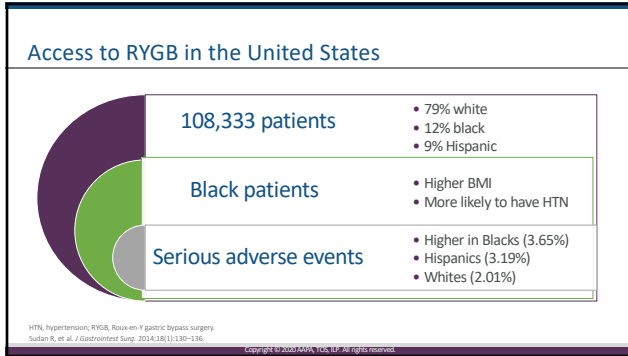
- ↑↑ energy intake
- ↓ energy expenditure
- ↑↑ life stressors
  - Racism
  - Lack of career options
  - Family illness/ death
- Cultural influences
- Genetics

Johnston DW, et al. Demography. 2011;48(4):1429-1450.  
Johnston P, et al. BMJ J. 2012;23(3):46-50.  
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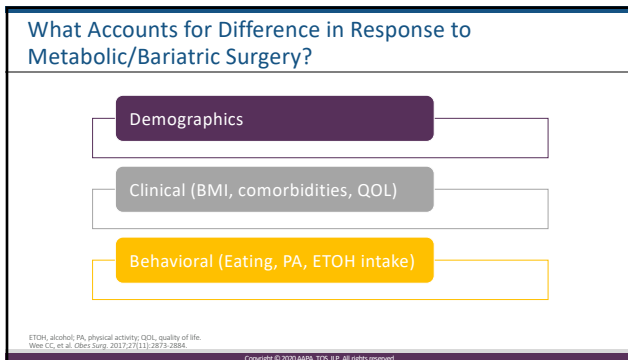
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### Are Minorities Less Likely to Proceed With Metabolic/Bariatric Surgery?

- 651 patients at 2 academic medical centers in Boston
- Evaluated whether racial and ethnic minorities were less likely to proceed with weight-loss surgery
- Once referred, racial and ethnic minorities just as likely to proceed with surgery as their White counterparts
- Comorbid illness burden was similar, but there was difference in baseline BMI

Stanford FC, et al. Surg Endosc. 2015;29(9):2794-2799.  
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### Adjustment of BMI Scale for Race, Gender, and Obesity-related Diseases

TABLE. Cutoffs for BMI Based on ROC Curve Analysis

Obesity Co-morbidity	BMI (kg/m <sup>2</sup> )					
	Men			Women		
	Black	Hispanic	White	Black	Hispanic	White
Hypertension	28	29	28	31	28	27
Dyslipidemia	27	26	27	29	27	25
Diabetes	29	29	30	33	30	29
≥2 risk factors	28	29	29	31	30	28
Average	28	28	29	31	29	27

ROC, receiver operating characteristic.  
Stanford FC, et al. Mayo Clin Proc. 2018;94(2):362-368.  
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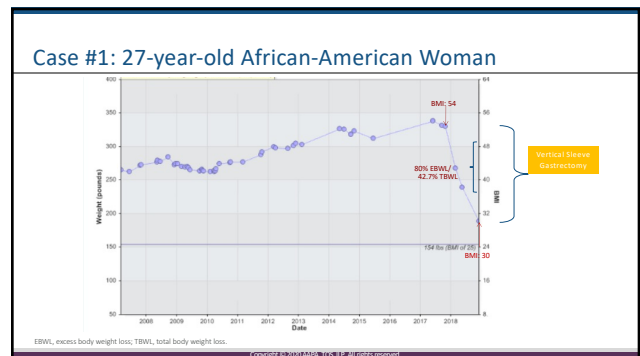
### Case #1

**27-year-old African-American woman**

- Past medical history:**
  - Mixed anxiety and depression
  - Hyperinsulinism
  - Depression
  - Hypertension
  - Asthma
- Diet:**
  - Breakfast: Oatmeal (weight controlled)
  - Snack: Dietas
  - Lunch: Chicken, sausage
  - Snack: Fruit cup
  - Dinner: Chicken, sausage with vegetables
  - Snack: Rare (fruit cup)
- Exercise:** 1/TH - gym (elliptical [50 min]; treadmill [60 min]); Fri (treadmill [60 min])
- Sleep:** 6-7 hours (feels well rested)
- Stress:** moderate
- Strong family history of severe obesity (mother, 2 aunts, and 1st cousin - underwent RYGB with variable response)**

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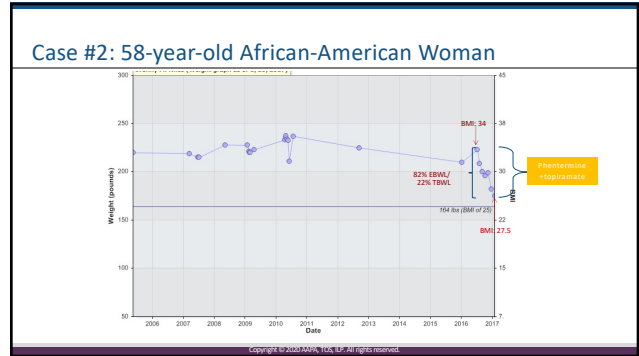
### Case #2

**58-year-old African-American woman**

- Past medical history:**
  - Hypertension
  - GERD
  - Depression
- Diet:**
  - Breakfast: Scrambled eggs with spinach, onions, peppers, or sausage; OR oatmeal with nuts/blueberries/blackberries
  - Snack: Fruit, protein bar (KIND bars) or Jif creamy peanut butter
  - Lunch: Leftovers (baked chicken, vegetables, brown rice)
  - Snack: Almonds, protein bar
  - Dinner: Baked chicken, vegetables, brown rice
- Exercise:** 4 days per week (1 hour); 2 days of cardio, 2 days of strength (meets with trainer twice per week)
- Sleep:** 6-7 hours (feels well rested)
- Stress:** normal
- Postpartum weight retention; night shift nurse for 4 years

GERD, gastroesophageal reflux disease.

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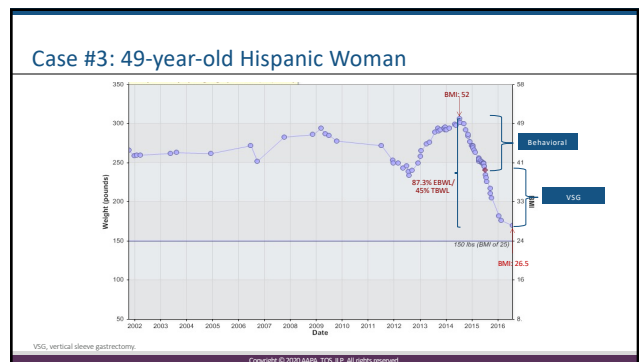
### Case #3

**49-year-old Hispanic woman**

- Past medical history:**
  - Anxiety/depression
  - Ventricular tachycardia s/p ablation
  - Mixed connective tissue disease
  - Hypertension
  - GERD
- Diet:**
  - Breakfast: Fruit, vitamins
  - Snack: Vitamin water, Sobe Life water, fruit
  - Lunch: Lettuce (romaine and iceberg), cheese, ham, tomato, peppers, lite Italian dressing or vinegar/oil
  - Snack: Fruit (sometimes)
  - Dinner: Spinach, Smart Ones
  - Snack: Denies
- Exercise:** Walking – 5 miles a day; some form of cardio: elliptical; Zumba (1 time per day; 7 days a week)
- Weight gain became prominent after childbirth (10 lbs. with each pregnancy x6); tobacco cessation; and metoprolol prescription for HTN

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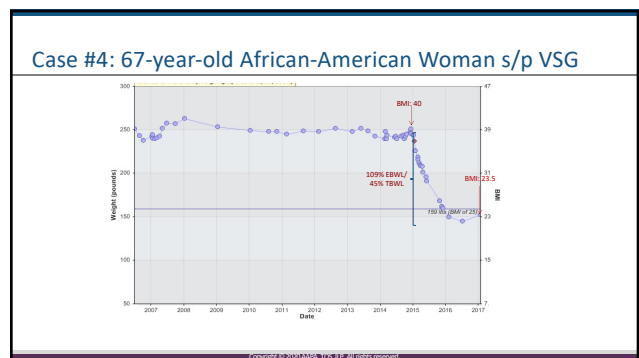
### Case #4

**67-year-old African-American woman**

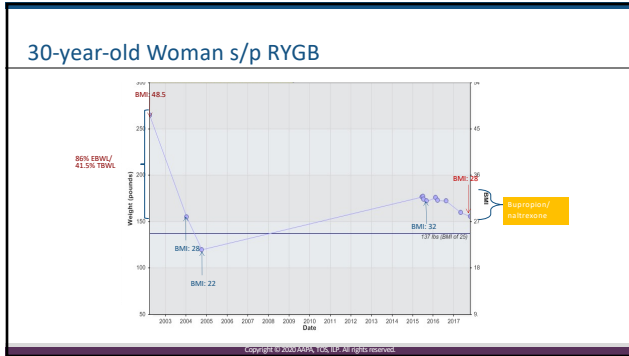
- Past medical history:**
  - Type 2 diabetes mellitus
  - Hypertension
  - CAD
  - CHF
  - NASH
  - Breast Cancer
  - GERD
- Diet:**
  - Breakfast: Regular yogurt with fruit (may snack)
  - Snack: Occasionally popcorn
  - Lunch: Chicken or fish with vegetables and/or fruit
  - Snack: Fruit (apple, oranges, and watermelon)
  - Dinner: Fish (halibut, Tilapia) or chicken with occasional vegetables
  - Snack: Nuts
- Exercise:** Walking, some form of cardio; 1/2 hour per day; joined a gym (started on the treadmill)
- Weight gain became prominent in peri-menopause

CAD, coronary artery disease; CHF, congestive heart failure; NASH, non-alcoholic steatohepatitis.

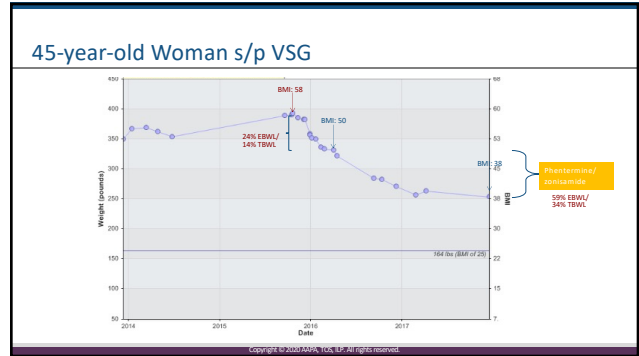
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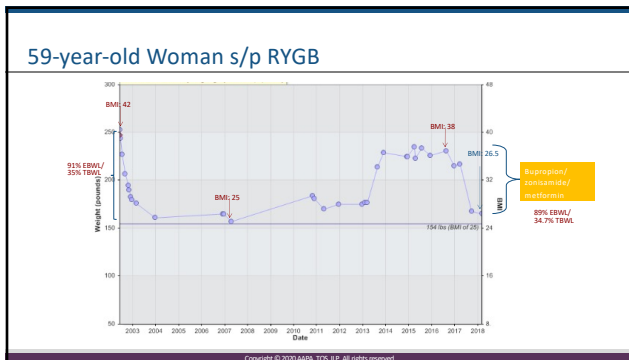
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### Summary

- Obesity is a multi-factorial disease process
- Regulation of food intake is complex
- ↑ prevalence of obesity in ethnic minorities
- Response to treatment in persons with obesity varies with education level
- Healthcare providers are less likely to diagnose ethnic minorities with overweight/obesity
- Ethnic minorities have less pronounced response to metabolic/bariatric surgery and pharmacotherapy

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### Action Items

- Steps should be taken to ascertain etiology of higher prevalence of obesity in ethnic minorities
- Healthcare providers should be more vigilant in recognizing and diagnosing overweight/obesity in ethnic minorities
- Strategies should be employed to address disparities in prevention and treatment of obesity in ethnic minorities

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### Thank You for Your Time


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### Workshop Wrap-up, Prize Draw, and Closing Remarks


ANGELA GOLDEN, DNP, FNP-C, FAANP  
SHERLYN CELONE-ARNOLD, MS

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### What Did We Learn Today?

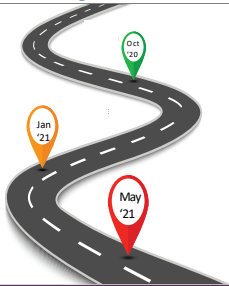
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### Tracking as Planned


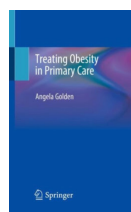


- What's up next:
  - Today's workshop will be posted demand in AAPA's Learning Central by next Fri., May 28<sup>th</sup>
  - Remember to complete the posttest and evaluation for this activity by June 4<sup>th</sup>
  - PDSA Cycle Plans
    - GOAL 1: June 1 – August 13
      - More details coming week of May 31<sup>st</sup>
    - GOAL 2: September 1 – November 15
  - Modules 6 – 10 (June – October)
    - Mod 6: Medical Devices & Surgery
    - Mod 7: Apply Foundations of Care
    - Mod 8: Managing Obesity Related Complications
    - Mod 9: Documenting Billing & Coding
    - Mod 10: Putting it All Together: Obesity Blueprint of Care Model
  - Obesity Week Podcast (Nov 2021)
  - Follow-up Assessment and Certificate

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### Obesity Management Workshop May 22, 2021 Prize Draw Winners




3rd place: Lori Dixon  
2nd place: Dolores R  
1st place: Christy Terry

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### Any Questions?



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# Thank you!



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