

Childhood Obesity



















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Objectives

- Understand the definition of Obesity.
- Review rates obesity in children.
- Identify children at risk and contributing factors for Obesity.
- Identify the risks and complications of Obesity in children.
- Discover treatment options for Obese children to reduce risks.

Definition Obesity

- Children--CDC Definition--Obesity is defined as a body mass index (BMI) at or above the 95th percentile for sex and age.
- Adults- BMI $>=30 \text{ kg/m}^2$

Objective data to generate the diagnosis!

Current Obesity Rates / Trends

The prevalence of obesity was 19.7% and affected about 14.7 million children and adolescents. (2017-2020).

Cdc.gov/obesity

2-5 yrs old	12.7%
6-11 yrs old	20.7%
12-19 yrs old	22.2%

18% Children in PA are Obese (PA Department of Health 2020)

Who is at risk for Childhood Obesity?

- Gestational DM
- Pre-pregnancy Obesity
- Large BW
- Small BW

- Certain medications
- Family lifestyle
- Family genetics*
- Ethnicity and race*
- Poor nutrition behaviors

* Indicates uncontrollable factor

Contributing factors to Obesity in Children

- Family lifestyle
- Lack of sports/ activity
- Income level family
- Increased gaming time

- Lack of extracurricular activities
- Eating habits
- Sleeping issues

Risks & Complications of Obesity in Children

Prediabetes

Eating Disorders

Type 2 Diabetes

Depression

Hypertension (HTN)

Sleep Apnea

Early coronary vascular Dz

Fatty Liver

Adult Obesity (33% Prevalence in PA) vs (Colorado 24%)*

Higher Medical Costs

Diabetes Stats

- Type 2 Dx Children increase by 4.8% in past decade.
- Childhood Type 2 DM-64% Female
- Childhood Type 2 DM-80.9% in minority category
- BMI over 85th Percentile is risk for DM
- The longer uncontrolled or poorly managed DM the more complications occur.

Prediabetes

Diagnosis*

- FBG: 100-125 mg/dL
- 2 Hr PG: 140-199 mg/dL after OGTT-75g
- Hgb A1c > 5.7-6.4%

Patients are asymptomatic Early screening reduces risks

Risks

- Diabetes (DM)
- Stroke
- CVD
- Retinopathy
- Neuropathy
- Nephropathy

Screen

FHX DM, Obese, BW >9lbs, SBW w/ fast gain, GDM, GDM, PCOS

^{*} ADA Prediabetes Criteria

Type 2 Diabetes (DM)

Diagnosis*

- FB >= 126 mg/dL x 2
- 2 Hr PG >= 200 mg/dL after
 OGTT 75g x2
- RG \geq 200 mg/dL w/ sxs
- Hgb A1c > 6.5

No Non- surgical CURE (yet).

Can only control it.

<u>Risks</u>

Cancer**

Stroke PVD

CVD Infections

Retinopathy Skin disorders

Neuropathy Fractures

Nephropathy Dementia

^{**}Cancer liver, breast, endometrium, pancreas, colon, and bladder American Diabetes Association. Standards of medical care in diabetes - 2022. <u>Diabetes Care. 2022 Jan</u> 1;45(Supplement 1):S1-S264 PDF

Treatment Prediabetes and Type 2 DM

- Reduce carbohydrates (NOT eliminate)
- Reduce simple carbohydrates (white flour)
- Reduce sugar intake
- Avoid fast food or dining out
- Avoid soda and sweet drinks
- High fiber foods
- Exercise!!
- Stop smoking

- Reduce daily caloric intake***
- More omega-3 FA- fish & nuts
- Oral DM medications
- Adults--Injectable weekly medication
- Bariatric surgery
- DM2 only--Daily Insulin Type 2 DMmultiple

Treatment for BOTH are almost the SAME

Challenges in Health Care

- Teaching an old dog new tricks
- Habits are hard to break
- Healthy food is expensive
- Life events happen
- Diets are temporary
- Society dining habits against us
 - Larger serving sizes
 - Advertisements
 - Convenience

A Common Journey...

The 80's & 90's-The Process

- Frequent letters home on obesity from school.
- Grimaces from pediatrician, nurses & coaches when I stepped on scale.
- Constant name calling.
 - Nickname from a coach- "Fatty"
 - "She's Big-boned"
- Omission from fun events due to size.
- Teams requiring food diaries.
- Food diary read aloud to entire team.
- Excessive exercise approach then quick failure.

The Result

- Hiding food, binge eating, eating my emotions.
- Low self esteem, self conscious.
- Poor image of self— no mirrors.
- Do not like photos ever!
- Obsessed over my weight.
- Weight changes STILL every year up or down.
- Constant reminder of childhood negative images.





THERE IS A POINT AT WHICH A TRANSFORMATION HAS TO TAKE PLACE.

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A Positive Approach REQUIRED

We will shape the minds of these children for an eternity.

Recommendations:

- Start early in life.
- Positivity.
- Realistic.

Education is empowerment. Criticism is demeaning.

The Golden Rule

- Treat others how YOU would like to be treated.
- MUST focus on a <u>positive</u> approach to the process.

Believing in oneself

Understanding commitment

Complete dedication from all involved

Understanding of the risks

Understanding of how to truly make a change over time.

Lifelong changes-- not short-term goals.

Different Ideas

Home setting
Primary Care setting
Community level
School setting









Home Setting

- Close look at how we stock the house instead of lectures:
 - Avoid soda
 - Avoid candy
 - Avoid chips
 - Stock up on fruits and veggies
 - Position fruits and veggies at eye level
- Do NOT award good behavior with poor food choices.
 - -"If you're good I will get you a Happy Meal!"

Home Setting

- Walk daily with children— even after dinner.
- Promote meditation, Mindfulness early on in life.
- Encourage better sleeping habits
- Reduce gaming time with timers and/ or award extra 15 min for good behavior.
- Children follow adults.



Primary Care Practice Pediatrics and Family Medicine

- Yearly weight counseling to parents and child.
- Check labs such as A1c, Liver enzymes, lipids early.
- Review family lifestyle choices and risks of obesity.
- Educate ENTIRE family on choices.
- Medication Rx options.

Community Setting

- Start early— WIC offers nutrition education and promotes healthy eating early -- from birth to 5 yrs old.
- Offer local activities such as promote YMCA events, community walks, family events to encourage movement for entire family.

Local Ideas

- Freefall Trampoline Park | 2800 Baglyos Cir., Bethlehem | <u>freefalltrampolinepark.com</u>
- Sky Zone | Trampoline Park | 2285 Schoenersville Rd., Bethlehem | <u>skyzone.com/bethlehem</u>
- BounceU | 1800 Sullivan Trl. Easton | <u>bounceu.com/easton-pa</u>
- Grim's Orchard & Family Farms | 9941 Schantz Rd., Breinigsville | grimsgreenhouse.com
- Seiple Farms | 5761 Nor Bath Blvd., Bath | <u>seiplefarms.com</u>
- Lehigh Valley Zoo | 5150 Game Preserve Rd., Schnecksville | lvzoo.org
- Tolino Vineyards | 280 Mt. Pleasant Rd., Bangor | Festivities include live music, yoga, s'mores, yard game | tolinovineyards.com
- Nockamixon State Park
- Jacobsburg State Park | <u>jacobsburgtrailrides.com</u> Horseback Trail Rides
- Blue Mountain Resort's Summit Aerial Park
- Blue Mountain Resort | 1660 Blue Mountain Dr., Palmerton | skibluemt.com/outdoor-adventures disc golf
- <u>disc golf</u> Bear Creek Ski Resort
- Kira Willey Music, Movement & Mindfulness for Kids | <u>firefliesyoga.com</u> Kira Willey's family yoga classes
- https://www.thevalleyledger.com/?p=108394
- https://www.gv-ymca.org/events/31/healthy-kids-day.html
- http://lehighvalley.findandgoseek.net/
- https://www.gymtimepa.com/
- https://www.discoverlehighvalley.com/things-to-do/wellness-spas/gyms-fitness-centers/

School Setting

- Do not offer soda or high caloric beverages in school.
- Offer healthy snack options.
- Rewards with creative activities.
- Recess with movement in the gymnasium or outside.
- Encourage after-school physical activities.
- Teach nutrition facts to ALL.



School Setting

- Create or Support a Yoga event for children at the school.
- Lean on local programs such as YMCA to help increase local participation.
- Formal recess games
 – yoga, animal yoga, frisbee with movement
- Make it fun- dance, laughter, music.
- Make it for All- not just obese children
- Address negative behaviors from others immediately.

What can you do?

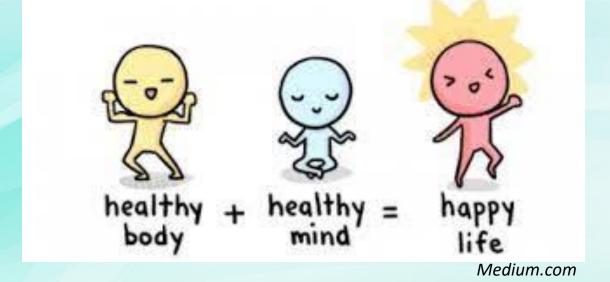
(individual level)

- Continue to set a good example.
- Remember we are all human and could use some help at times.
- Walk at lunch- let them see you move
- Children follow our lead on all our actions from food,

to movement, and behaviors.

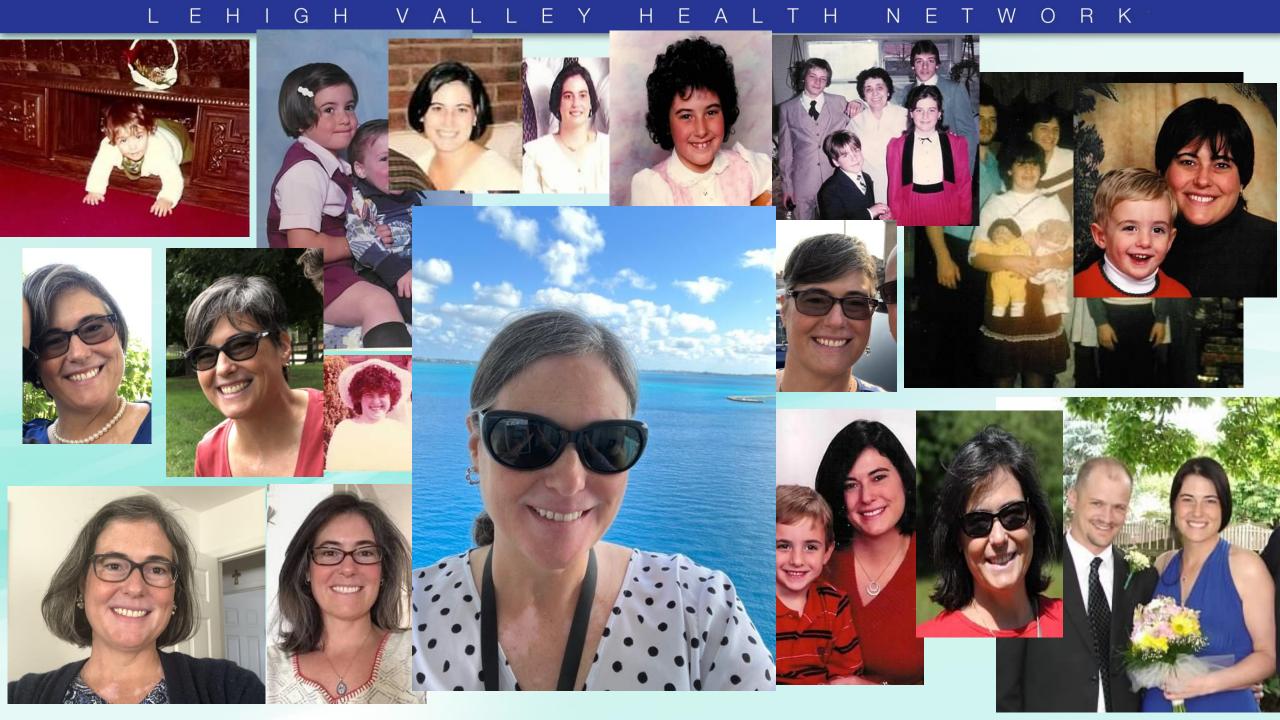
Summary

WHY DOES IT MATTER?



- Lower occurrence of DM, HTN, Depression, Heart Disease, and more...
 - Confident children, teens, adults
 - Happier Adulthood ©







Questions?

- □ Email
 - ☐ Call
- ☐ Text

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Thank you