9 year-old presents for obesity

CC: "Concern about weight and health"

HPI: "Always above growth curve" but concerned about

increase in weight gain beginning last year –

25# weight gain last year (2020)

Nutrition: 2 meals (skips breakfast) + 2 snacks/day;+2nd portions

Fast food 4x/week; distracted eating

+SSBs (90 oz/day of soda, gatorade, juice)

+refined foods; limited fruits & vegetables

No food insecurity, hiding/sneaking food, emotional eating

Activity: Softball (1 hr 3-4x/week); excess screen time, +TV in room

Sleep: 11 pm – 6 am; +fatigue, snoring

PMH / PSH

PMH:

- Term newborn, BW 8#, 4oz.
- Formula-fed for 10 months
- Normal development
- Allergies on Zyrtec and Flonase
- Obesity followed by PCP x 1 year for weight gain

PSH:

T&A at 2 yo due to "noisy breathing"

Family History

- Obesity mom, dad, paternal grandparents
- HTN mom (dx age 36 yo)
- T2DM dad (dx age 25 yo) with ESRD (on dialysis), PGM
- Hypercholesterolemia dad (dx 40 yo)
- Cerebrovascular disease PGM (stroke)
- Depression mom, MGF
- Hypothyroidism mom (dx 13 yo)
 - Migraines mom, MGF

Social History

- Lives with parents; dad on disability
- No siblings or extended family in home
- Attends 3rd grade in-person school; As & Bs
- School activities: plays softball
- H/o teasing at school last year
- Culture: Dad is Al Choctaw; Mom is Korean

ROS

General: +weight gain, fatigue

ENT: +congestion

Resp: +cough w/activity

Musculoskeletal: +foot pain

Sleep: +snoring

Neuro: +HAs

Psych: low self-esteem; mild

CV: negative

GI: negative

GU: negative

Endo: negative

Skin: negative

Vitals

Weight:

Height:

BMI:

BP:

Repeat BP (avg) %ile)

131.1 lbs

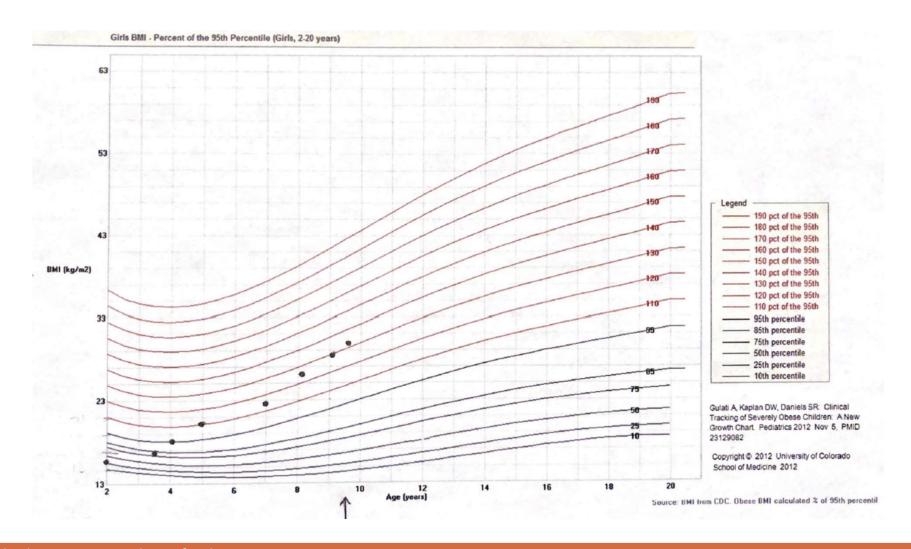
56.1 in

(100%ile) (86th %ile)

29.4 kg/m² (130th %ile)

110(74 %ile) / 76 (91 %ile)

106 (60 %ile) / 74 (87



Physical Exam

General: well-appearing

HEENT: normocephalic; EOMI; Malampatti 3

Neck: normal

Respiratory: CTAB; no wheezing

Chest: RRR; no murmurs; Tanner Stage 2

Abdomen: soft; non-tender; no hepatomegaly

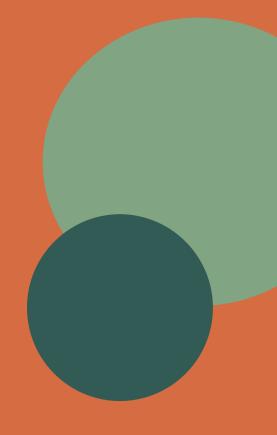
Genital: normal female; Tanner Stage 2

Musculoskeletal: WNL

Extremities: pes planus

Skin: +acanthosis nigricans—neck & axilla

Psych: alert and interactive



Laboratory results

FG: 107 → IFG

TG: 278 👝 Dyslipidemi

Chol: 165 Normal

LDL: 64 Normal

HDL: 40 \Longrightarrow Borderline le

A1c: 5.8 Prediabetes

	Prediabete s	Diabetes
Fasting glucose	100-125	≥126
111 47	Girls (IU/L)	Boys (IU/L)
ALT	≥22	≥26

Lipid Category	Low (mg / dL)	Norma I (mg/d L)	Border -line (mg/d L)	High (mg/ dL)
Total cholesterol	-	< 170	170- 199	≥ 200
LDL	-	< 110	110-129	≥ 130
HDL	<40	>45	-	-
Triglyceride s 0-9 10-19 yrs	-	<75 <90	75-99 90-129	≥ 100 ≥130

<u>Management</u>

Obesity

Lifestyle modifications – MI to focus on health concerns

- Decrease SSBs: set goal of eliminating Big Gulp; replacing Gatorade w/Gatorade 0
- Increase activity level due to interest in sports: parents
 - plan to change softball league to more intensive one
- Sleep: work up possible OSA; discussed increasing sleep duration but no goal set
- > Parent support

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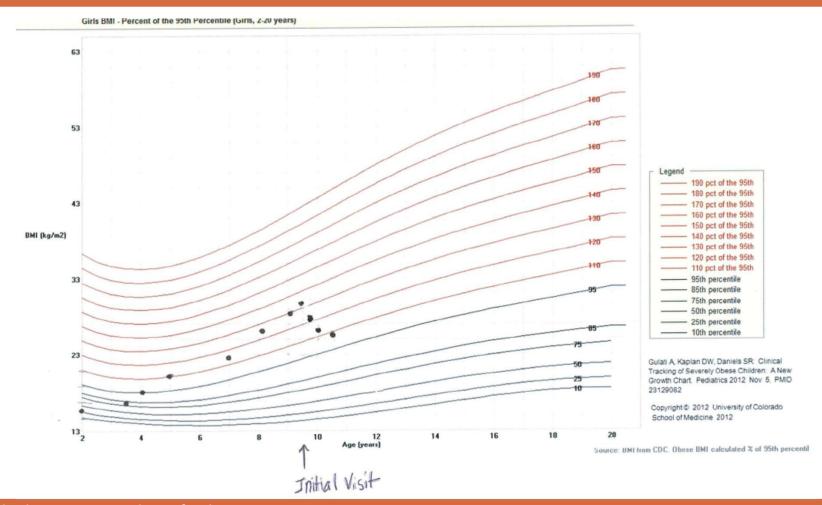
<u>Management</u>

- Insulin resistance, dyslipidemia, elevated ALT
 - Decrease SSBs, increase activity level
 - Follow-up visits to work on decreasing fast foods, balanced
 - meals, healthy snacks, meal regulation
 - Repeat labs in 6 months
- Snoring/daytime fatigue/HAs
 - Peds Epworth score of 6; Referral for sleep study
- Cough w/ activity
 - Albuterol prior to activity
- Foot pain/pes planus
 - Referral to orthotics
- Anxiety

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6 & 12-month follow-up visits

- Obesity
 - Weight stable; decreasing BMI & BMI percentile
 - Eliminated SSBs; drinking water + occasional Gatorade 0
 - No longer meal skipping with improved portions + vegetables
 - Packs healthy snacks for game days; skips concession foods
 - Still consuming fast food 3x/week but choosing healthier options
 - Activity increased to 2 hours 5x/week
 - Sleep improved to 8 hours/night (10 pm-6am)



6 and 12-month follow-up visits

· Insulin resistance, elevated ALT, dyslipidemia

> FG: 97 98

> ALT: 25 16

> HbA1c: 5.4 5.2

> FLP: TG: 96 HDL: 49 TG: 64 HDL: 57

- Snoring/Fatigue/HAs
 - Sleep study with AHI of 3 with REM AHI of 5.7
 Mild OSA symptoms improved with weight management
- Asthma
 - Pre-treating with albuterol
- Foot pain
 - Pain resolved with orthotics
- Anxiety

Sponsored by the Ame Representation was WNL; Peds QL improved Section on Obesity

THANK YOU!

Questions:

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