

Objectives

- To identify the Center for Disease Control's recommendations of physical activity levels
- To identify the deficits noted between recommendations of physical activity and reported compliance
- To address potential patient barriers to compliance
- To provide strategies to increase the youth's activity
 levels
- To provide resources for the pediatric patient population in order to increase physical activity levels







Patient Quotes

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• "I walk to/from the couch to fridge to get a snack, does that count?"



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- "I walk to/from the couch to fridge to get a snack, does that count?"
- "I walk to/from classes at school"



Patient Quotes

- "I walk to/from the couch to fridge to get a snack, does that count?"
- "I walk to/from classes at school"
- "Fortnite?"



Let's get to know each other

· Athletic Trainer





Let's get to know each other

- · Athletic Trainer
- Physical Therapist or Physical Therapist Assistant





Let's get to know each other

- · Athletic Trainer
- Physical Therapist or Physical Therapist Assistant



Student



Let's get to know each other

- Athletic Trainer
- Physical Therapist or Physical Therapist Assistant



- Student
- Other?



Healthcare Providers

- Do we discuss this topic with patients?
 - At initial evaluation?
 - Follow ups?
- Do we provide physical activity counseling?
- · Suggest resources?





APTA's Vision Statement

"Transforming society by optimizing movement to improve the human experience"



APTA's Vision Statement

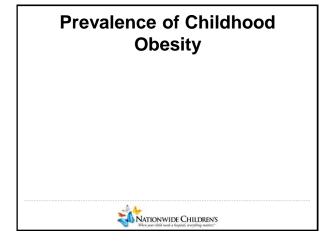
"Movement is a key to optimal living and quality of life for all people that extends beyond health to every person's ability to participate in and contribute to society. The complex needs of society, such as those resulting from a sedentary lifestyle, beckon for the physical therapy profession to engage with consumers to reduce preventable health care costs and overcome barriers to participation in society to ensure the successful existence of society far into the future."



APTA's Vision Statement

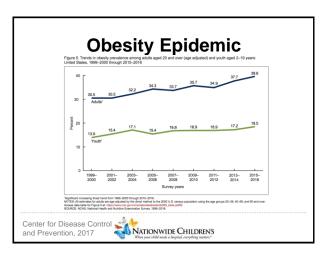
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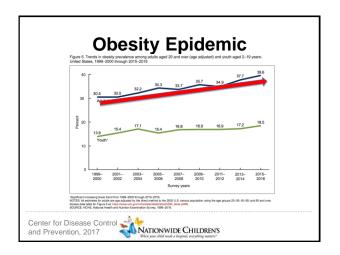


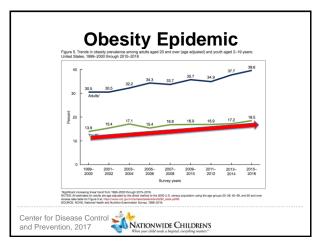


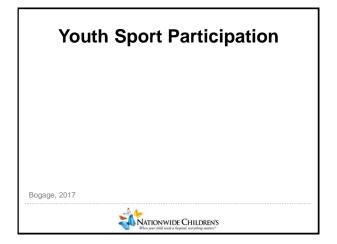


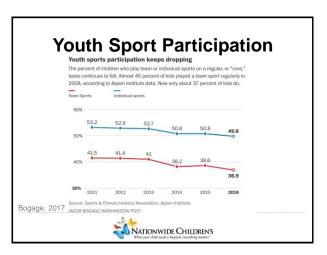


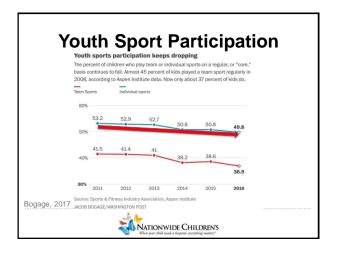


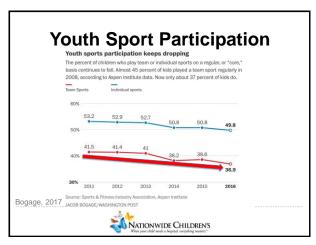




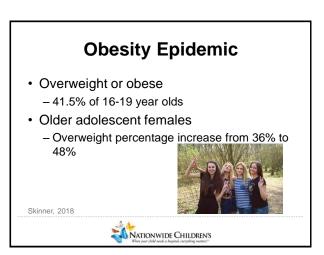








Obesity Epidemic • Overweight or obese – 41.5% of 16-19 year olds Skinner, 2018



Obesity Epidemic

- · Overweight or obese
 - 41.5% of 16-19 year olds
- · Older adolescent females
 - Overweight percentage increase from 36% to 48%
- · 2 to 5 year olds
 - Increase in prevalence of class 1 obesity, especially males

NATIONWIDE CHILDREN'S

Obesity Epidemic

- · Born year 2000 or later
 - 1 in 3 chance of developing diabetes

Skinner, 2018

NATIONWIDE CHILDREN'S

Obesity Epidemic

- Born year 2000 or later
 - 1 in 3 chance of developing diabetes
- Obesity in adolescents → adulthood → ↑ risk of morbidity and mortality

Skinner, 2018



Obesity Epidemic

- · Daily PE requirements
 - Only 8% of elementary schools
 - <7% of HS and MS</p>



Cochran



Obesity Epidemic

- · Daily PE requirements
 - Only 8% of elementary schools
 - <7% of HS and MS
- · Physical activity
 - Only 50% of children (12-21 yo) regularly participate in rigorous physical activity
 - 25% of children (12-21 yo) report no physical activity

Cochran



Obesity Epidemic Daily PE Only - <7% Physical Only in rigo 25% TV Average child spends 2 hours a day watching Cochran 26% of children watch ≥ 4 hours per day

Physical Activity Levels

- Self reported PA level in student athletes at pre-participation physical evaluations
 - <7% of HS and MS athletes reported 60 min MVPA daily

Valasek, 2018



Physical Activity Levels

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Valasek, 2018



Physical Activity Levels

- Self reported PA level in student athletes at pre-participation physical evaluations
 - <7% of HS and MS athletes reported 60 min MVPA daily
 - Only 27% met weekly recommendation of 420 min per week
 - MS more variety of PA and less sports specialization

Valasek, 2018







Center for Disease Control Recommendations

- 60 minutes of moderate to vigorous intensity every day
 - 420 minutes per week
- Including aerobic, bone and muscle strengthening

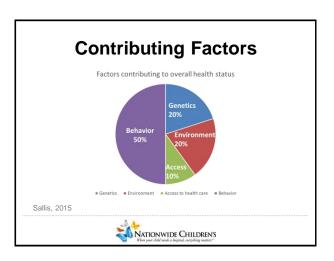
Centers for Disease Control and Prevention,

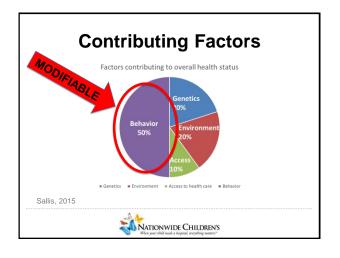


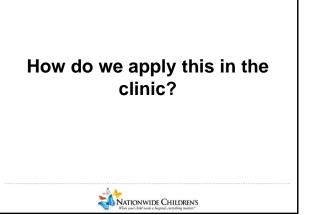












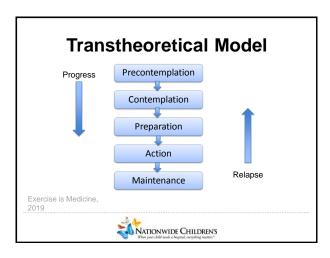
Patient Case

- 17 yo female
- · Low to mid back pain
- PMHx: adolescent idiopathic scoliosis, depression, adjustment disorder with anxiety, fibromyalgia
- Treated by PT many times in the past, failing conservative measures
- Most recently s/p T10-L2 posterior spinal fusion pontine osteotomy for kyphosis on 11/6/18
- · Online schooling
- · Loves her animals
- · Future career aspirations of being a vet





















Provide the Support

- Check in on progress toward goals
- Positive encouragement
- · Progress goals







Youth Empowerment

- · Empowerment definition
 - "a process through which people can take control over their lives so they can make decisions to improve their existing state"

Muturi, 2018

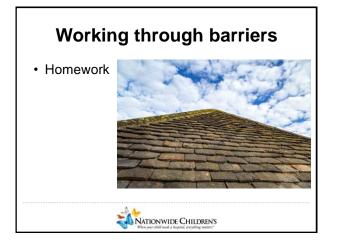


Youth Empowerment

- · Significantly influences adolescents'
 - Self efficacy
 - Perceptions for healthy food choice
 - Healthy eating
 - Attitudes toward physical activity
 - Overall motivation for health

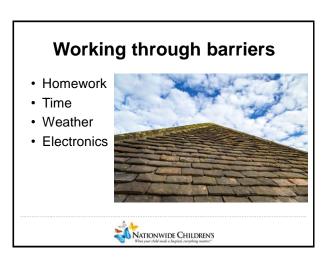
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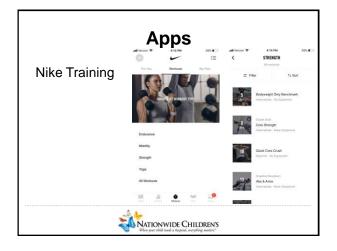






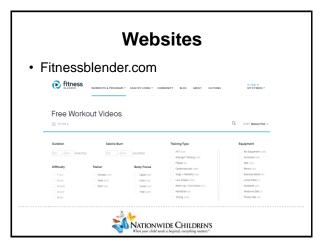


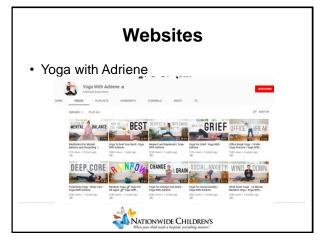












Other Ideas

- · Deck of cards
- Dice
- Ladder
- · Fitness classes



Programming

- · Strong Today And Ready Tomorrow (START)
 - Goal: to learn strategies on how to be successful and safe in a gym environment for long term health maintenance
 - 1 session per week for 8 weeks, 60 minutes
 - Different topics each week



References

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