

### NC Early Childhood Physical Activity Institute 2013

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### Today's Messages:

- 1. Be Who You Were
- Try Not To Use The F Word
   Development Depends



### PA in Early Childhood Settings



### Early Childhood: The Last Frontier of Obesity Prevention



Building preferences for healthy habits when preferences are first being formed



### Develop Healthy Learners With Physical Activity





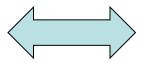


# I'm So Happy That I'm Healthy! I'm So Happy That I'm Strong!

### Slide to Your Side, Slide to Your Side

Go back

Slide to Your Side, Slide to Your Side









#### **Now JUMP 3 times (1-2-3)**

**JUMP 3 times (1-2-3)** 

To the front To the back

To the front Oh Yeah...



I Like
It
Like
That!

Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It..... Now Move It...... Now Move It...... Now Move It...... Now Move It..



Freeze!!!



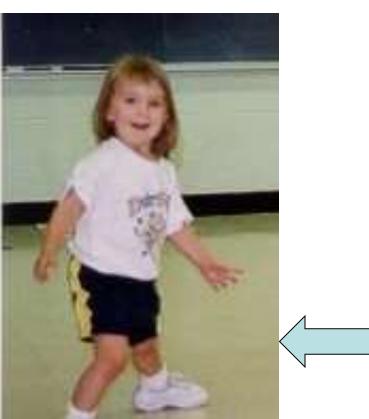
I'm So Happy That I'm Healthy! I'm So Happy That I'm Strong!

### Slide to Your Side, Slide to Your Side

Go back

Slide to Your Side, Slide to Your Side





#### Now JUMP 3 times (unos, dos, tres)

JUMP 3 times (unos, dos, tres)

To the front To the back

To the front Oh Yeah...



I Like It Like That!

### Now Move It..... Now Move It.....Now Move it..... Now Move It.....Now Move It.....Now Move It.....



Freeze!!!



I'm So Happy That I'm Healthy! I'm So Happy That I'm Strong!

### I Cover My Cough



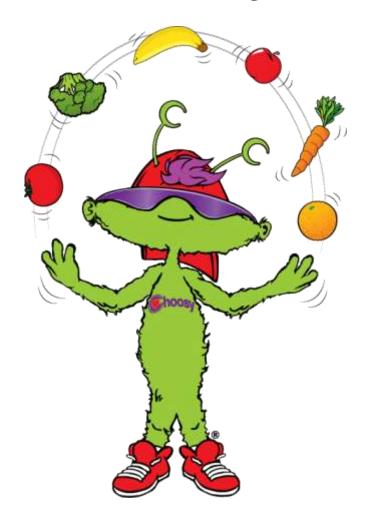
Agh....Agh

### I Brush My Teeth





### I Eat My Fruits and Veggies





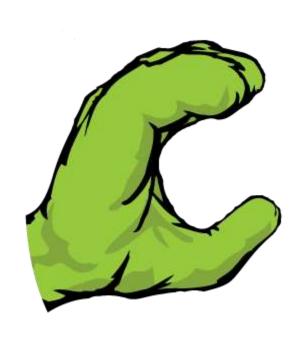
Like Choosy! Like Choosy!

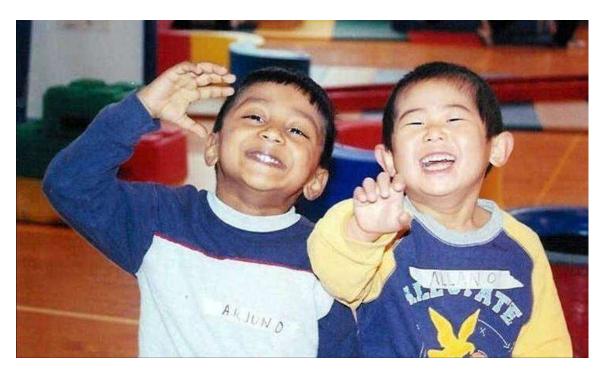
### I Eat My Grains and Beans



M-m-m, M-m-m, M-m-m

# Show Your C's If You're Down With Me (x4)





## Let's dance.... Let's sing..... Let's do our thing!





I'm So Happy That I'm Healthy I'm So Happy That I'm Strong!

Music Makes Me Feel Good! Moving Exercises My Brain! Moving Energizes My Body! Moving Gets Me Ready to Learn! I Am Ready to Learn!

# We have finally learned enough from studying disease



to understand health

# Your Body Is Designed To Be Healthy

- Designed to Move (5-10 miles a day)
- Designed to be Nourished (by Fruits, Vegetables and Grains)
- Designed to be Hydrated (by Water)



### BE WHO YOU WERE





### Survival Of Fittest Was A Reality And Still Is Today

You Have the Biology of Survivors
You Have The DNA of Your Ancestors

### Over the last 30 years, obesity has increased for:

- Both Genders
- All Age Groups
- N. S. B. Santing to
- All Income Levels
- All Racial and Ethnic Groups

#### North Carolina

- For children ages 2 to 4 years, prevalence of overweight increased by 45% between 1984 and 2009.
- Prevalence for obesity in 2-4 year olds increased by 149% during this same time period.

#### Source:

CDC, Overweight and Obesity.

http://www.cdc.gov/obesity/index.html

NC Pediatric Nutrition Surveillance System, Summary of Trends in Overweight and Obesity Indicators

### Obesity Is...

A biological response to the environment A biological response to our policies and practices



NC Child Care Commission (NCCCC) created licensing requirements to increase physical activity in child care facilities



# Policies That Promote Healthy Eating and PA

# Early Childhood Obesity Prevention Policies (Institute of Medicine) Examines the evidence and provides guidance on policies for children up to age 5

Preventing Childhood Obesity in Early Care and Education Programs in Caring for Our Children (American Academy of Pediatrics)
Best practices in nutrition, physical activity, and screen time for ECE settings

### **American Academy of Pediatrics**



Eat. Reduce. Play. Limit.

Lee County WIC, Lee County Health Department, FL

#### Let's Move

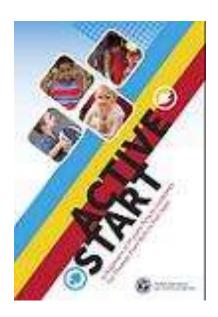


#### **60 Minutes of WHAT?**



### National Association for Sport and Physical Education (NASPE, 2009)

- 60 minutes or more STRUCTURED PA
- 60 minutes or more of unstructured PA
- Develop movement skills and concepts



Increased
Quantity
AND
Quality









Physical Activity in Early Childhood

Pre school children are

- 1. Not miniature adults
- 2. Not miniature athletes

#### Try NOT To Use The F Word

Fitness is a by-product of Play,

Adult Guided
Movement Activities,
and Ample Time
For Practice of
Motor Skills



#### **Maturation**

Development

## Development **Depends** On YOU!

# Measuring Physical Activity in Early Childhood is Not Enough

We have been measuring PA in children without considering the role that learning to move and refining motor skills have on physical activity

## **Motor Skill Competence**

One of the most powerful underlying mechanisms influencing engagement and

persistence in physical activity Stodden, et al, Quest, 2008





## Increase the Quality of Movement Experiences with Skill Practice



If children can't jump, hop, catch, and throw, etc, they may have limited interest and opportunities for engagement in childhood games, recreational activities, and sports later on in life.

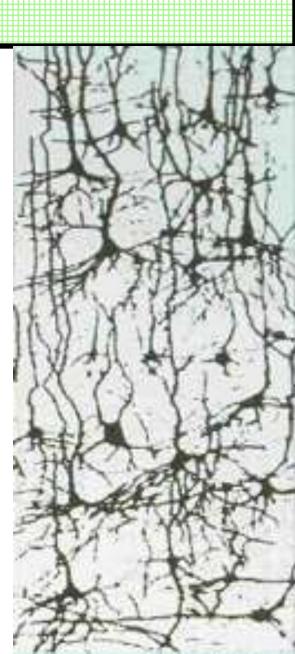
Stodden, et al, Quest, 2008

#### The Body Builds the Brain!

Build and connect neural networks with variety.

Strengthen neural networks with repetition.

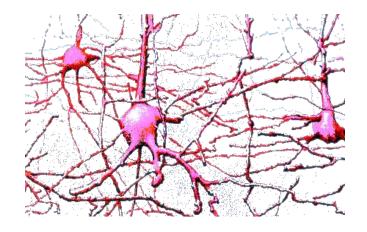




# Brain networks are strongest in early childhood.



Developing brains use incoming sensory, perceptual, and movement information to define and "wire" the brains of young children.



## "Physical activity is like Miracle Gro for the brain!"

John Ratey, Harvard Psychiatrist

#### **Executive Function**

 Describes the cognitive processes that support adaptive, goal directed learning





Should also be used to describe motor competence

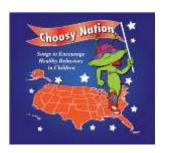
#### **Tell Your Body What To Do**

- Motor Planning
- Self Regulation
- Controlled Movements
- Self Confidence
- Body Management
- Skill Competence



#### I'm The Boss!





I'm the Boss Track #14: Choosy Nation CD

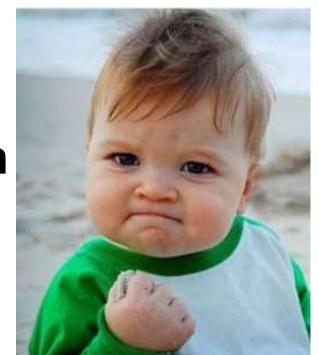


#### I'm the boss of my body, I tell it what to do

I'm in charge like Choosy, and here's how I move

'Cause I'm the boss...yeah I'm the boss...yeah (x3) Now chill...





I boss my arms high to low (x3)

I boss my legs jump side to side (x3)





I boss my hands raise the roof (x3)

And then I stretch myself big and tall (x3)



I'm the boss of my body, I tell it what to do

I'm in charge like Choosy and here's how I move

'Cause I'm the boss, yeah I'm the boss, yeah (x4)

Now chill...

#### I boss my tummy twist yourself

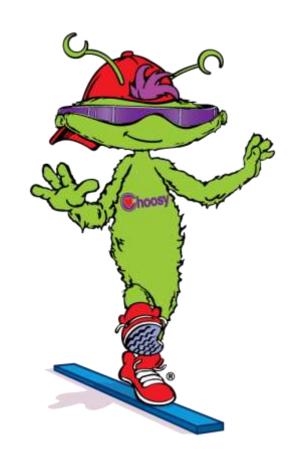
I boss my feet

march in place

I boss my fingers

touch the ground

And then I boss myself turn around



#### I'm the boss of my body, I tell it what to do

I'm in charge like Choosy, and here's how I move

'Cause I'm the boss, yeah I'm the boss...yeah (x3)



### **Body Language**



# Rate of word acquisition explodes during early childhood

 By the age of three, most children have acquired nearly 850 words. By the age of six, they have acquired nearly 10,000 words (Fenson, et al, 1994).

 The opportunity for those working and living with children between the ages of 3 and 6 is very significant

#### **Concrete Experiences With Objects**

Playing with props that relate to words:

- 1) assists with retention, 2) increases use of words, and
- 3) increases use of words in appropriate context.





#### Experiencing Text Enriched Environments



#### Music: The Universal Teaching Tool

- Elevate heart rates
- Cross midlines
- Teach school readiness skills
- Help children perform and practice motor skills
- Embedded messages about healthy bodies and habits

#### **Characters Influence Children**

Children preferred the taste of foods and selected foods for snacks more often when a character appeared on the packaging.

The President's Task Force Report on Childhood Obesity recommends using children's characters to promote healthy options, rather than attracting children to unhealthy food and beverages.



Kotler, et al *Journal of Health Communication* (2012)

Roberto, et al *Pediatrics* (2010)

#### **Health Needs a Hero!**



Lanigan, J.D. Child: Care, Health and Development (2010)

#### **Knowledge is NOT power**





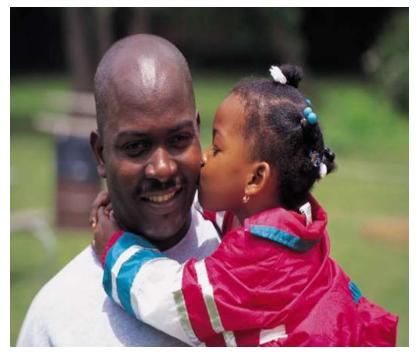


To be powerful, we must translate knowledge into action

## Today's Messages:

- 1. Be Who You Were
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- 3. Development Depends





## Feed Them Well Move Them More







Healthy Children
North Carolina
Proud Traditions
In Our Homes and Schools

Health Is Wealth Here Move Them Every Day Choosy's Here To Help Them Move And Learn And Play

Choosy Says Health Is Wealth Make Them Rich And Fit For Life In North Carolina Mountain Healthy Feed Them Well Move Them More

All Our Memories Of Our Childhood Go to Play Time What We've Learned We Cherish...

# Make Those Memories Cheer Them When They Try Bonds Made In Childhood Put Tear Drops In Our Eyes

Choosy Says Health Is Wealth Make Them Rich And Fit For Life In North Carolina Mountain Healthy Feed Them Well Move Them More

I Hear That Voice When I Have To Make A Choice Nudging Me To Nourish And Move Them Every Day

Choosy Says, Let's Go We Need To Move And Learn And Learn And Move, And Play, Play, Play Everyday...

Choosy Says Health Is Wealth Make Them Rich And Fit For Life In North Carolina Mountain Healthy Feed Them Well Move Them More

# Feed Them Well Move Them More

Feed Them Well Move Them More

### Well Done NC!



### When I get home I will.....



### 



Let's play, lets play....outside Let's learn, let's learn.... outside

Let's learn in nature And we can make sure

We're Choosy, We're Choosy outside





#### Narration: Let's learn and move outside!

Gallop like a pony

Jump up as high as the tallest tree

Climb the ladder to the top of the slide



March in the tall grass

Can I get a "Yee-Haw!?"

### Hop on one foot across small puddles

Row, row, row your boat

Leap across big puddles

Swim in the water



Let's play, lets play outside

Let's learn, let's learn outside





Let's learn in nature and we can make sure

We're Choosy, We're Choosy outside

#### Dig in the dirt with your shovel

Bend down to smell the flowers





Can I get a "Yee Haw!?"

### Pull the weeds in the garden

#### Make your arms be the big sun





Water your pretty plants

Grow taller and taller like a sunflower

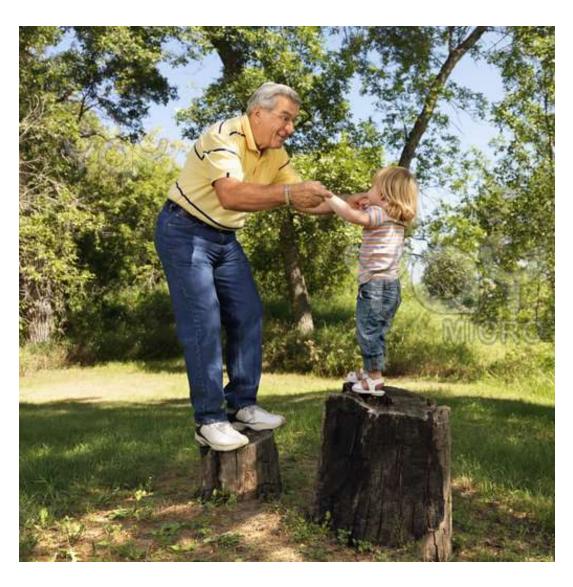
Let's play, let's play.....outside Let's learn, let's learn..... outside

Let's learn in nature
And we can make sure
We're Choosy, we're Choosy outside

Can I get a "Yee-Haw!?"



## Parents and Grandparents: Valued Play Partners



### This is My Body!



This Is My Body
I'm Going To Treat It Right
My Bones & Muscles
My Heart & My Mind

This Is My Body
It's Mine, All Mine
My Arms & My Legs
My Ears & My Eyes

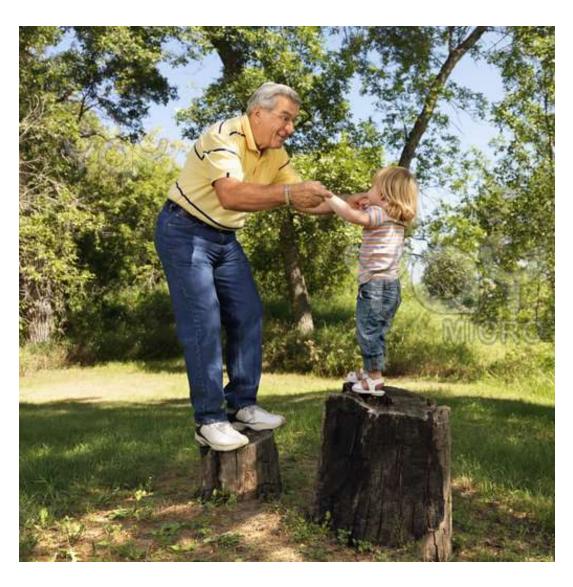


## Parents Are The First & Most Influential Teacher





## Parents and Grandparents: Valued Play Partners



### "Influential Others" for Preschool Children

Child Care/Preschool
Children's Characters
Health Care Providers
Family
Church

Consistent Health Messaging
Motivation Modification
Continuity Across Influential Others

### Developing Healthy Children



This Is My Body
I'm Going To Treat It Right
My Bones & Muscles
My Heart & My Mind

This Is My Body
It's Mine, All Mine
My Arms & My Legs
My Ears & My Eyes

# Informing Families With Consistent Health Messaging



Health Needs A Hero

# Policies That Promote Healthy Eating and PA

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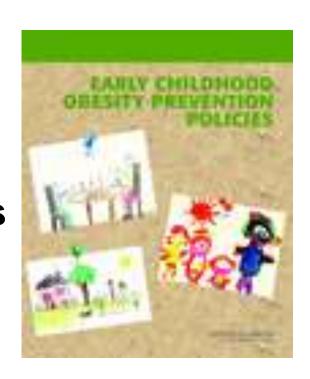
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### Early Childhood Obesity Prevention Policies

#### **IOM Policy Recommendations**

- 1. Healthcare providers make parents aware of their child's excess weight early on
- 2. Parents and child care providers keep children active throughout the day, provide them with healthy diets, limit screen time, and ensure children get an adequate amount of sleep.



Institute of Medicine Report
June 2011





# Do WV Infant Toddler Leaders Like to Move It?