

# Foundations of Child Development & The Brain in Early Childhood

With DR. PEG OLIVEIRA  
Executive Director, Gesell Institute

SATURDAY, OCTOBER 12, 2019  
FIRST PRESBYTERIAN CHURCH

- \* LEARN about each stage of development.
- \* DISCOVER how stages of growth impact behavior.
- \* EXPLORE the latest and best brain development research.



Funding Provided By  
Indian River County  
Children's Services  
Advisory Committee





**Peg Oliveira, PhD**  
*Executive Director*

Dr. Peg Oliveira is a child development expert and an activist. Since receiving her doctorate in developmental psychology from Brandeis University, Dr. Oliveira has advocated for fair pay for early childhood educators, child care assistance for working parents and equitable access to high quality education.

Peg is founding director of 108 Monkeys, a yoga service organization in New Haven, CT. Peg serves as a Consulting Editor for the National Association for the Education of Young Children.

*What have you enjoyed most about working at Gesell?*

“Growing! I have learned so much from my colleagues here at Gesell. In my time here I have learned a great deal about how to connect with kids, how to imagine their intentions, understand their motivations, and empathize with their impeccable choices.”

*How have you seen Gesell’s theory of child development at work in your own life?*

“When my daughter Willow was finishing Kindergarten we were told that, unlike her peers, she was not falling in love with reading. It was suggested that some encouragement might be useful over the summer break. So, as a family we went swimming, crab catching, sea shell gathering, mountain climbing and camping. At some point during these excursions, I found her one rainy afternoon holed up in a blanket fort. She was reading *The Trumpet of the Swan*, a book I had read to her numerous times before. Dr. Arnold Gesell encouraged us to see each child as a unique being, and to allow them to find their own path & pace through the rituals of child development. Keeping this in mind allowed me to get out of the way, to put my own anxieties on the shelf and allow my daughter the space to find the deep connection she now has with story.”

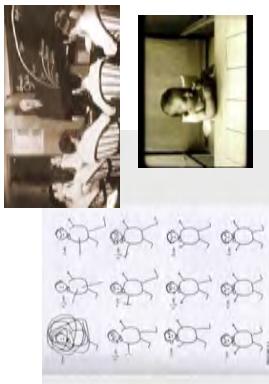


## Foundations of Child Development

Peg Oliveira, PhD  
Executive Director

"If we use effective tools, the child reveals himself to all who will stop and listen to what he says, and who, with seeing eyes, will watch what he does."

Arnold Gesell



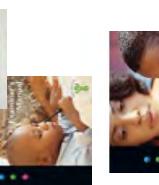
**Our Mission**  
 Promote the principles of  
 child development inspired  
**Innovation**  
**&**  
**Objective Wonder**



Know Yourself

Know Kids

Know Your Kids

Gesell Developmental  
Observation - Revised

Gesell Early Screener

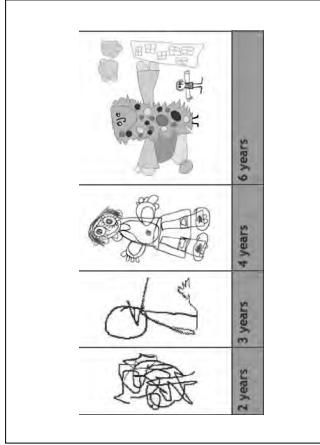


## How Children Learn and Grow

### Theories of Child Development



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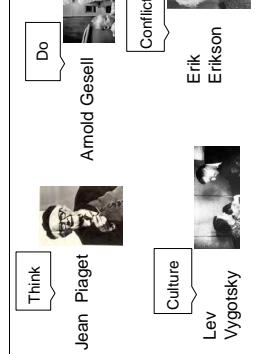
### Gesell's Maturational Theory

- All children develop through sequential and predictable stages of development.
- Children develop at their own unique, individual rate.
- Children's developmental age (stage) can differ from their chronological age.
- Development is impacted by internal (heredity) and external (environment) influences.



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### Theories of Child Development



## Piaget: Constructivist - Cognitive Theory of Development

- Schemas
- A mental representation of a perception, idea, and/or action;
  - considered the basic building blocks of thinking
- Equilibration
- A balance between child's schema and his/her environment
- Involves both accommodation and assimilation
- Assimilation
    - Process of changing or perceiving new objects, ideas, or events to fit into existing schemas
- Accommodation
- The process of changing existing schemas to account for new experiences, ideas, or events



## Piaget: Constructivist - Cognitive Theory of Development

- Sensor-motor Stage (Birth—2 yrs.)
- Learns through senses and physical interactions with environment
- Pre-operational Stage (Ages 2—7 yrs.)
- Learns through concrete physical situations, not able to think abstractly
- Concrete Operations (Ages 7—11 yrs.)
- Begins to use logic to explain physical experiences, begins to use abstract problem solving
- Formal Operations (Ages 11+ yrs.)
- By this point, the child's cognitive structures are like those of an adult and include conceptual reasoning

## Erikson: Psycho-social Theory

## Erikson: Psycho-social Theory

- Trust vs. Mistrust (0-1) — Hope
- Autonomy vs. Doubt (2-3) — Willpower
- Initiative vs. Guilt (3-5) — Purpose
- Industry vs. Inferiority (6-12) — Competence



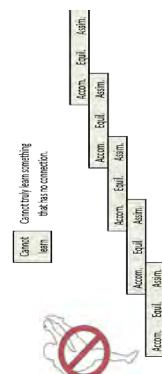
## Vygotsky: SocioCultural Cognitive Theory of Learning

- Builds on Piaget's constructivist theory
- The Zone of Proximal Development (ZPD) occurs when a child begins to assimilate novel information which creates new schemas
- To reach the ZPD and beyond, children need the help of adults (or others) to support or "scaffold" them as they are learning new things
- Scaffolding happens with words, language and forms of discourse which serve as tools for facilitating and transforming mental activity



Vygotsky: Socio/Cultural Cognitive Theory of Learning

## 18 Theories of Child Development (Piaget & Vygotsky)



## 19 Theories of Child Development

- Physical/Motor Development
- Language Development
- Cognitive/Learning Development
- Social Emotional Development

*Consider the "whole" child*

## 20 How Children Learn and Grow

- Learning happens through:
- Shared physical interactions with the environment - people and things
  - Exploration and play
  - All the senses

New knowledge is connected to old knowledge.  
Like "stair-steps" we construct new knowledge on existing knowledge.

You can teach an old dog new tricks.

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### Why is Knowing Developmental Theories and Stages Important?

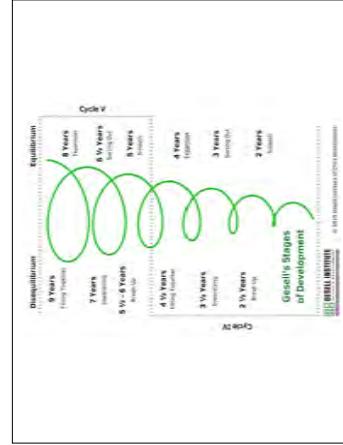
To Know  
Why We Do What We Do!

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### Chronological vs. Developmental Age



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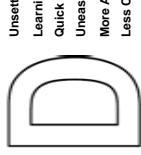
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### Gesell's Cycles and Stages of Development

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Smooth, Calm Behavior  
Practicing Skills Already Mastered  
Plateau in Development  
At Peace with Self and World  
More Confident  
A period of Stability and Consolidated Behavior  
Easier to Live With

### Gesell's Cycles and Stages of Development



Unsettled, Uneven  
Learning New Skills  
Quick Growth  
Uneasy with Self and World  
More Anxious, Stressed  
Less Confident  
Struggling & Breaking Down of Behavior  
More Difficult to Manage

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### Gesell Maturational Theory



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Infant Development  
1 - 3 Months

Begins transformation from a totally dependent newborn to an active and responsive infant



Infant Development 1 - 3 Months
<b>Physical/Motor Behavior</b>  Infant reflexes are lost (i.e., grasp, stepping, startle, mouthing) <ul style="list-style-type: none"> <li>• Supports head and upper body when on tummy</li> <li>• Stretches out legs and kicks when on tummy or back</li> <li>• Starts using hands and eyes in coordination: Opens and shuts hands; brings hands to mouth; grabs and shakes hand toys; swipes at dangling objects</li> </ul>

Infant Development 1 - 3 Months
<b>Language Behavior</b>  <ul style="list-style-type: none"> <li>• Begin to coo (vowel sounds like oooo, aaaa)</li> </ul> <b>Social Emotional Behavior</b>  <ul style="list-style-type: none"> <li>• Turn toward familiar voices</li> <li>• Smiles at familiar faces</li> <li>• Enjoys playing with others</li> </ul>

Infant Development 1 - 3 Months
<b>Cognitive Behavior</b>  Dramatic vision changes causes them to become more aware and interested in their surroundings <ul style="list-style-type: none"> <li>○ Human faces</li> <li>○ Bright, primary colored objects</li> <li>○ Follow moving objects with eyes; turns head to direction of stimuli (visual, sound)</li> <li>○ Recognize some familiar things and people</li> <li>○ Imitates some movements and facial expressions</li> <li>• Becomes excited when feeding stimuli are presented, anticipating feeding</li> </ul>

Infant Development 4-7 Months
<b>Coordinate new perceptive abilities (vision, touch, hearing)</b>  and motor skills (grasping, rolling over, sitting up) and have more control over what they will and will not



<p><b>Physical/Motor Behavior</b></p> <ul style="list-style-type: none"> <li>Rolls over both ways (stomach to back and reverse)</li> <li>Sits up with and then without support of hands</li> <li>Reaches for object with one hand using raking grasp</li> <li>Transfers objects from hand to hand</li> <li>Supports whole weight when held up on legs</li> <li>Explores objects with hands and mouth</li> <li>Explores objects by banging and shaking</li> <li>Begins to push up to a crawling position; rocks back and forth on knees</li> <li>Sits without support</li> </ul>
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<p>Infant Development 4-7 Months</p> <p><b>Language Behavior</b></p> <ul style="list-style-type: none"> <li>Laughs</li> <li>Babbles consonants (ba-ba-ba-ba)</li> </ul> <p><b>Social Emotional Behavior</b></p> <ul style="list-style-type: none"> <li>Distinguishes emotions by tone of voice</li> <li>Smiles to attract attention</li> <li>Expresses emotions (happy, sad, anger)</li> <li>Responds to own name</li> </ul>
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<p>Infant Development 4-7 Months</p> <p><b>Cognitive Behavior</b></p> <ul style="list-style-type: none"> <li>Finds partially hidden objects</li> <li>Moves in the direction they want to go (leans)</li> <li>Looks at a toy after dropping, understanding where it fell</li> </ul>
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<p>Infant Development 8-12 Months</p> <p><b>Getting their first experience with independence.</b></p> <p>Increasingly more mobile, and some are in constant motion.</p> 
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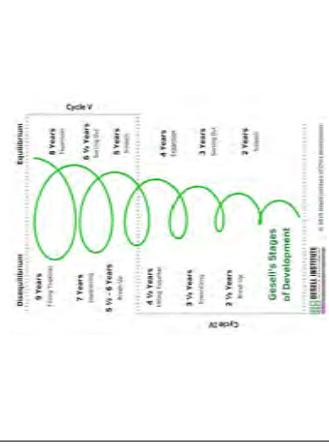
Infant Development 6-12 Months	<b>Physical/Motor Behavior</b>
	<ul style="list-style-type: none"> <li>In and out of sitting position on their own</li> <li>Gets on hands-and knees and crawls; often backwards before forwards</li> <li>Pulls self up to standing position; cruises holding onto furniture; stands without support and eventually may take a few steps and then begins to walk.</li> <li>Uses pincer grasp (thumb and first finger)</li> <li>Places objects in and out of container</li> <li>Some basic functional skills like hold a spoon or turn pages in a book</li> </ul>

Infant Development 6-12 Months	<b>Language Behavior</b>
	<ul style="list-style-type: none"> <li>Says "mama/dada" specifically referring to a person</li> <li>Exclamations such as "uh-oh!"</li> <li>Tries to imitate words and may say first word</li> <li>Uses simple gestures, such as shaking head for "no" or waving for "bye-bye"</li> <li>Plays interactive gesture games, such as peek-a-boo and pat-a-cake</li> </ul>

Infant Development 6-12 Months	<b>Social Emotional/ Behavior</b>
	<ul style="list-style-type: none"> <li>Relatively stay around strangers (stranger anxiety)</li> <li>Cries when significant caretakers leave</li> </ul>

Infant Development 6-12 Months	<b>Cognitive Behavior</b>
	<ul style="list-style-type: none"> <li>Easily finds hidden objects (object permanence)</li> <li>Uses objects correctly such as holding phone up to ear or drinking from a cup</li> </ul>

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### Gesell's Cycles and Stages of Development

Age	Stage
2	Smooth
2½	Breaking Up
3	Sorting Out
3½	Inwardizing
4	Expanding
4½	Neurotic
5	Smooth
5½	Breaking Up
6	Sorting Out

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### Expansion- 18 Months

- Developmental 18 Months (a lot like 4, 8, 14)
- Is markedly more outgoing, more confident, adventurous, noisy, and vigorous
- Learns through movement and is in constant motion
- Movement and change key to direction
- Expanding their circle or world
- Can be defiant

**E**

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### Expansion- 18 Months

#### Physical/Motor Behavior

- Generally walking well
- Body does not bend
- Minimal cuddling
- Walking up stairs with support – creeps down
- Throws ball without falling

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Expansion- 18 Months
<p><b>Language Behavior</b></p> <ul style="list-style-type: none"> <li>Minimal 10 words – usually 20</li> <li>May use jargon</li> <li>“No” is favorite word</li> <li>Responds to questions – shakes head - yes/no</li> </ul>

**E**

Expansion- 18 Months
<p><b>Social Emotional Behavior</b></p> <ul style="list-style-type: none"> <li>Wants what he/she wants NOW</li> <li>Tantrums in response</li> <li>Hard to accept any delay or failure</li> <li>Resistant to change or transitions</li> <li>Possessive in nature</li> </ul>

**E**

Expansion- 18 Months
<p><b>Cognitive/Learning Behavior</b></p> <ul style="list-style-type: none"> <li>Play is solitary or parallel</li> <li>Sensory – touches, smells, tastes, etc.</li> <li>Adult-child play reciprocal</li> <li>Reading is interactive – points to familiar objects and people in pictures</li> <li>Self-care – feeds self - pulls off socks, mittens, etc.</li> </ul>

**E**

Fitting Together- 21 Months
<p><b>D</b></p> <ul style="list-style-type: none"> <li>Developmental 21 Months (a lot like 4 1/2, 9, 14)</li> <li>Bothered age as children have a glimmer of what is possible but cannot always achieve</li> <li>Closure important (activities &amp; emotions) <ul style="list-style-type: none"> <li>Less wary of strangers</li> <li>Can be unsure - anxious</li> </ul> </li> </ul>

<b>Fitting Together- 21 Months</b>
<p><b>D</b> <i>Physical/Motor Behavior</i></p> <ul style="list-style-type: none"> <li>Begins to lose baby fat</li> <li>Pushes &amp; pulls toys</li> <li>Can jump</li> <li>Runs – may still have difficulty stopping – can move around obstacles</li> <li>Helps feed self</li> <li>Turns pages in book</li> </ul>

<b>Fitting Together- 21 Months</b>
<p><b>D</b> <i>Language Behavior</i></p> <ul style="list-style-type: none"> <li>Names everyday objects</li> <li>Requests certain objects</li> <li>Can follow simple directions</li> <li>25-50% intelligibility</li> <li>Serve &amp; return conversations</li> </ul>

<b>Fitting Together- 21 Months</b>
<p><b>D</b> <i>Social Emotional Behavior</i></p> <ul style="list-style-type: none"> <li>Parallel play</li> <li>Initiate adults in play</li> <li>Curious - need to be kept safe</li> <li>Tantrums – frustration</li> <li>Begins to assert independence</li> </ul>

<b>Fitting Together- 21 Months</b>
<p><b>D</b> <i>Cognitive/Learning Behavior</i></p> <ul style="list-style-type: none"> <li>Fills containers and dumps</li> <li>Stacks 4-6 objects each day</li> <li>Understands functional relationships (spoon/bowl)</li> <li>Object hiding – can search in more than one location</li> <li>Knows 3-5 body parts</li> </ul>

**Smooth- 2 Years****E****Smooth- 2 Years**

- Developmental age 2 (a lot like 5, 10)
- At relative equilibrium
- Generally exhibits gentle, cooperative and calm behaviors
- Simplicity is best
- Tend toward easy going, secure behaviors

**Smooth- 2 Years****E****Smooth- 2 Years*****Physical/Motor Behavior***

- Walks, runs and climbs with new skill
- No longer toddles, walks more steadily, but lacks coordination
- Experiences the world through touching, handling and holding
- Uses both hands working together

**E****Smooth- 2 Years*****Language Behavior***

- Uses many new words
- Enjoys simple rhymes and songs
- Calls him/herself by name
- Talks more to themselves than others (language acquisition)
- Begins to string some words together

**E**

<b>Smooth- 2 Years</b>
<p><b>Social Emotional Behavior</b></p> <ul style="list-style-type: none"> <li>Gentle temperament</li> <li>Prefers parallel play – cognitive skills are not developed for complex interactions</li> <li>Imitates real life, simple experiences like talking on the phone, hammering, cooking, etc</li> <li>Begins to verbalize bathroom needs, but not yet able to stay dry consistently</li> </ul> <p><b>E</b></p>

<b>Smooth- 2 Years</b>
<p><b>Cognitive/Learning Behavior</b></p> <ul style="list-style-type: none"> <li>Short attention span, easily distracted</li> <li>Has to explore with hands as well as eyes – sensory</li> <li>Involves themselves in simple exploration and investigation</li> <li>Fascinated by sand and water play (sensory)</li> <li>Learns best within repetition and routine</li> </ul> <p><b>E</b></p>

<b>Breaking Up- 2 ½ Years</b>
<p><b>D</b></p>  <p>REASON MY SON IS CRYING... SOME OF HIS BALLS ROLLED UNDER THE SOFA</p>

<b>Breaking Up- 2 ½ Years</b>
<p><b>D</b></p> <ul style="list-style-type: none"> <li>Developmental age 2 ½ (a lot like 5 ½, 11)</li> <li>At odds with themselves and their environment</li> <li>Becoming aware of inconsistencies</li> <li>Trouble making decisions</li> <li>Relationships become more difficult</li> <li>Needs constant expectations and rules to ensure security</li> <li>Behavior can be rigid, inflexible and demanding</li> </ul>

<b>Breaking Up- 2 ½ Years</b>	
<b>D</b>	<p><b>Physical/Motor Behavior</b></p> <ul style="list-style-type: none"> <li>Begins to walk on tiptoe</li> <li>Jumps with both feet</li> <li>Can speed up, slow down, dodge obstacles, turn corners, make sudden stops and start up again with ease</li> <li>Is more skillful with handling small toys</li> </ul>

<b>Breaking Up- 2 ½ Years</b>	
<b>D</b>	<p><b>Language Behavior</b></p> <ul style="list-style-type: none"> <li>Uses "no" and "mine"</li> <li>Repeats words and phrases</li> <li>Uses language as an effort to control others</li> <li>Has a rapidly expanding vocabulary</li> <li>Understands more than he or she speaks</li> </ul>

<b>Breaking Up- 2 ½ Years</b>	
<b>D</b>	<p><b>Social Emotional Behavior</b></p> <ul style="list-style-type: none"> <li>Is no longer the gentle, friendly toddler</li> <li>Is inflexible; unable to adapt, give in or wait</li> <li>Has explosive emotions and frequent tantrums</li> <li>Can be extremely bossy and demanding</li> <li>Is often in conflict with parents/caregivers</li> </ul>

<b>Breaking Up- 2 ½ Years</b>	
<b>D</b>	<p><b>Cognitive/Learning Behavior</b></p> <ul style="list-style-type: none"> <li>Enjoys rhythm, repetition and rhyme in stories</li> <li>Delights in role playing</li> <li>Likes to give orders and make decisions</li> <li>Chooses things that can be taken apart and put back together</li> </ul>

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## Sorting Out- 3 Years



**E**

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## Sorting Out- 3 Years

- Developmental age 3 (a lot like 6½, 12)
- At relative equilibrium
- At balance and focus
- Begins to understand that different situations require different behaviors
- Tend toward easy going, secure and mature behaviors

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## Sorting Out- 3 Years

### *Physical/Motor Behavior*

**E**

- Moves nimbly; coordinates total body, more smoothly
- Runs with more speed and control
- Is skillful at picking up small objects
- Likes to use crayons and markers
- May have established hand dominance
- Enjoys outdoor play, sliding, and climbing

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## Sorting Out- 3 Years

### *Language Behavior*

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- Has greatly increased vocabulary and ability to use language
- Learns to listen and *listens to learn*
- Has give-and-take conversations with adults and other children
- Enjoys new, big, and different words

<b>Sorting Out- 3 Years</b>
<b>Social Emotional Behavior</b>
<ul style="list-style-type: none"> <li>Developing a good sense of self</li> <li>Likes to make friends, but still has trouble sharing</li> <li>Understands turn taking but doesn't always follow rules</li> <li>Is less rigid, inflexible, and domineering</li> <li>Is now prepared to begin to manage toilet training</li> </ul>

**E**

- Developing a good sense of self
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- Is less rigid, inflexible, and domineering
- Is now prepared to begin to manage toilet training

<b>Sorting Out- 3 Years</b>
<b>Cognitive/Learning Behavior</b>
<ul style="list-style-type: none"> <li>Interested in books with simple plots</li> <li>Favors water play</li> <li>Imaginatively plays with dolls, blocks, and other toys</li> <li>Begins to build block structures and mold play-doh in recognizable forms</li> </ul>

**E**

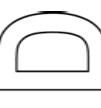
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<b>Inwardizing- 3 ½ Years</b>
 

**D**

Inwardizing- 3 ½ Years

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<b>Inwardizing- 3 ½ Years</b>
 <ul style="list-style-type: none"> <li>Developmental age 3 ½ (a lot like 7-13)</li> <li>May seem egocentric and self-centered</li> <li>A drawing inward of impressions and experiences of external world</li> <li>Does not like change</li> <li>Is territorial and controlling</li> <li>Has difficulty seeing others point of view</li> <li>May become depressed, insecure and exhibit emotional extremes</li> <li>Needs great stability and order</li> </ul>

**D**

- Developmental age 3 ½ (a lot like 7-13)
- May seem egocentric and self-centered
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- Has difficulty seeing others point of view
- May become depressed, insecure and exhibit emotional extremes
- Needs great stability and order

Inwardizing- 3 ½ Years
<p><b>Physical/Motor Behavior</b></p> <p><b>D</b></p> <ul style="list-style-type: none"> <li>Seems less coordinated; falls frequently</li> <li>Stumbles and may exhibit hand tremors</li> <li>Approaches tasks with less assurance</li> <li>Grasps pencil awkwardly</li> <li>May shift handedness</li> </ul>

Inwardizing- 3 ½ Years
<p><b>Language Behavior</b></p> <p><b>D</b></p> <ul style="list-style-type: none"> <li>Tries to control others with language</li> <li>Plays with language, whispering and making up new words</li> <li>Adores silly rhyming</li> <li>May or may not respond when spoken to</li> <li>Argues frequently with other children</li> </ul>

Inwardizing- 3 ½ Years
<p><b>Social Emotional Behavior</b></p> <p><b>D</b></p> <ul style="list-style-type: none"> <li>Ignores; often refuses to obey</li> <li>Is anxious about change</li> <li>May have imaginary companions</li> <li>Cries, whines, and complains</li> <li>Is sensitive and easily upset</li> <li>Values friendships</li> </ul>

Inwardizing- 3 ½ Years
<p><b>Cognitive/Learning Behavior</b></p> <p><b>D</b></p> <ul style="list-style-type: none"> <li>Prefers the simplicity of sand play</li> <li>Repeats actions over and over, finding transitions difficult</li> <li>Has many different ways of expressing refusal and uses them often</li> <li>Shows imagination and inventiveness</li> </ul>

# E

## Expansion- 4 Years

When you look you can do awesome tricks. You can do tumble and a cartwheel. Actually I can't do a cartwheel, but my sister can do that. She's 5 years old and likes to play with me. But I haven't met her, and I don't know her name, because she's imaginary. She likes to fly. Her job is to save the day every time she has to steal the world. She is friends with Water Girl, and Fire Girl, and Wind Girl, and Shark Girl. Shark Girl has the power of sharks. She can save the world every single time. All she has to do is put out her hands and think really hard about sharks.

*WILD AND WONDERFUL*

## Expansion- 4 Years

- Developmental age 4 (a lot like 8-14)
- Is markedly outgoing, confident, adventurous, noisy, and vigorous
- Learns through movement and is in constant motion
- More aware of the outside world
- Wants to know and deal with the whole problem
- Can be defiant

## Expansion- 4 Years

### *Physical/Motor Behavior*

- Constantly in motion, hopping, jumping, and running/love outdoors
- Draws, colors, paints with more detail
- May hit, kick when angry
- Requires strong limits to be protected by out-bound tendencies

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## Expansion- 4 Years

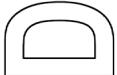
### *Language Behavior*

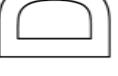
- Loves to talk, whisper, and rhyme
- Asks many questions
- Is better at talking than listening
- Tells tall tales; has trouble discriminating fact from fantasy
- Tattles; calls names, boasts, and defies

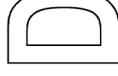
# E

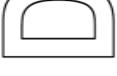
<b>Expansion- 4 Years</b>
<b>Social Emotional Behavior</b>
<ul style="list-style-type: none"> <li>• Is active, enthusiastic, and unpredictable</li> <li>• Has an expansive nature, always ready for something new</li> <li>• Cooperates with other children, but changes rules often</li> <li>• Enjoys laughing and laughter in others</li> </ul>

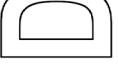
<b>Expansion- 4 Years</b>
<b>Cognitive/Learning Behavior</b>
<ul style="list-style-type: none"> <li>• Has a vivid imagination that leads to dramatic play</li> <li>• Loves books that include humor and illustrations</li> <li>• Love music and movement</li> <li>• Behaves in bravely confident way</li> <li>• Awareness of time and space emerging</li> </ul>

<b>Fitting Together- 4 ½ Years</b>
  

<b>Fitting Together- 4 ½ Years</b>
 <ul style="list-style-type: none"> <li>• Developmental age 4 ½ (a lot like 9, 15)</li> <li>• Is less outgoing</li> <li>• Knows how things should be but doesn't know how to achieve</li> <li>• Tends to be competitive, rigid, needing attention.</li> <li>• Worries and has a hard time dealing with closure</li> <li>• Values closure</li> </ul>

<b>Fitting Together- 4 ½ Years</b>	
 <b>Physical/Motor Behavior</b> <ul style="list-style-type: none"> <li>Can now catch successfully, hands to chest</li> <li>Uses the whole forearm when drawing</li> <li>Has a firm but wobbly pencil stroke</li> <li>Is physically active but has calm periods</li> </ul>	85

<b>Fitting Together- 4 ½ Years</b>	
 <b>Language Behavior</b> <ul style="list-style-type: none"> <li>May begin to differentiate fantasy from reality</li> <li>Loves new information</li> <li>Is scared by wild stories they loved at four</li> <li>Is showing interest in letters and numbers</li> </ul>	86

<b>Fitting Together- 4 ½ Years</b>	
 <b>Social Emotional Behavior</b> <ul style="list-style-type: none"> <li>Considers friends important</li> <li>Is less likely to push limits</li> <li>Likes to call attention to own performance</li> <li>Has unpredictable temperament</li> <li>Can be persistently demanding</li> </ul>	87

<b>Fitting Together- 4 ½ Years</b>	
 <b>Cognitive/Learning Behavior</b> <ul style="list-style-type: none"> <li>Builds more complicated block structures</li> <li>Is more self-motivated and focused</li> <li>Prefers reality in play</li> <li>Likes to show off dramatically</li> <li>Begins to play collaboratively</li> </ul>	88

<b>Smooth- 5 Years</b>
<b>E</b>



<b>Smooth- 5 Years</b>
<b>E</b>

Development age 5 (a lot like 2, 10)

- Little difficulty with self or the world
- Handles problems and setbacks with confidence; takes things more lightly

<b>Smooth- 5 Years</b>
<b>E</b>

**Physical/Motor Behavior**

- Is more poised than at 4
- Is more organized and has greater control of movements
- Has well-developed gross motor skills
- Has established hand dominance
- Has increased control over pencil grasp

<b>Smooth- 5 Years</b>
<b>E</b>

**Language Behavior**

- Experiences an explosion in language learning
- Shows much interest in new and big words
- Knows that words represent ideas and objects
- Asks questions now to seek information
- Pronunciation clear

93

<b>Smooth- 5 Years</b>
<b>Social Emotional Behavior</b>
<ul style="list-style-type: none"> <li>Wants to please and do things right</li> <li>Wants to have things go smoothly and is a much easier playmate</li> <li>Is more independent in personal care skills</li> <li>Often enjoys one-on-one activities</li> </ul>
<b>E</b>

94

<b>Smooth- 5 Years</b>
<b>Cognitive/Learning Behavior</b>
<ul style="list-style-type: none"> <li>Asks how, when, what and especially why questions</li> <li>Lives in the moment</li> <li>Needs adult approval</li> <li>Relates imaginative play to real life</li> <li>Exhibits increasingly creative and constructive abilities</li> </ul>
<b>E</b>

95

<b>Gesell Maturational Theory</b>
<ul style="list-style-type: none"> <li>All children cycle through sequential and predictable stages of development</li> <li>Children develop at their own unique, individual rate</li> <li>Children's developmental age (stage) can differ from their chronological age</li> <li>Strong relationships exist between a child's behavior and their growth and development</li> </ul>

96

<b>Gesell Maturational Theory</b>
Each child develops at his/her own rate
Earlier is not better and later is not lesser




### Kids these days...

demonstrate the same developmental ages and stages, pace and patterns of growth as originally determined by Dr. Gesell.



*"The child develops, the culture changes."*  
Frances Igl

### Theories of Child Development

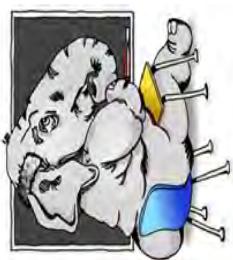
Understanding Developmental Theory Assists Not only in...

- Facilitating effective curriculum planning
  - Providing information for creating a developmentally appropriate environment
  - Assisting in the identification of inconsistencies in development
- But also in...
- Setting realistic shared expectations of behavior and performance for parents and teachers

### Developmentally Appropriate Practice

Who's down with  
 D A P ?

## The Elephant in the Classroom



What is  
“normative”  
anyway?

## The Elephant in the Classroom

### What is “normative” anyway?

**Maturationalists** believe that ‘normative’ development is a biological process that occurs automatically in predictable, sequential stages over time (Hunt, 1969).

Normalise can:

- Be sporadic and inconsistent
- “Appear” to have setbacks
- Include negative and positive behaviors, both of which help the child grow and develop

## The Elephant in the Classroom

### What is “normative” anyway?

**Maturationalists** believe that ‘normative’ development is a biological process that occurs automatically in predictable, sequential stages over time (Hunt, 1969).

Normalise can:

- Be sporadic and inconsistent
- “Appear” to have setbacks
- Include negative and positive behaviors, both of which help the child grow and develop

## Gesell's Maturational Theory

“In appraising growth characteristics we must not ignore environmental influences — cultural milieu, siblings, parents, food, illness, trauma, education. But these must always be considered in relation to primary or constitutional factors, because the latter ultimately determine the degree, and even the mode, of reaction to the environment. The organism always participates in the creation of its environment, and the growth characteristics of the child are really the end-product expressions of an *interaction* between *intrinsic* and *extrinsic* determinants. Because the interaction is the crux, the distinction between these two sets of determiners should not be too heavily drawn.”

— Arnold Gesell, 1940

## Today's Agenda

What is trauma?

Who experiences trauma and why?

How does trauma impact learning?



105

### Define Trauma

A response to a negative external event or series of events which surpasses the individual's / child's ordinary coping skills.

Traumatic experiences can adversely impact brain development and behavior.

Substance Abuse and Mental Health Services Administration, 2014

106

### Define Trauma

Exposure to a trauma or trauma event does not necessarily mean that a child will develop a traumatic response



107

### Define Trauma

- Physical trauma
- Psychological trauma
- Social / Relational trauma
- Historical trauma
- Vicarious or secondary trauma

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### Define Trauma

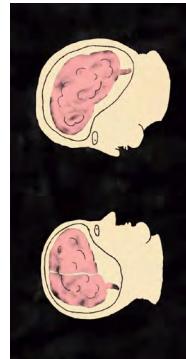


109

## Define Trauma



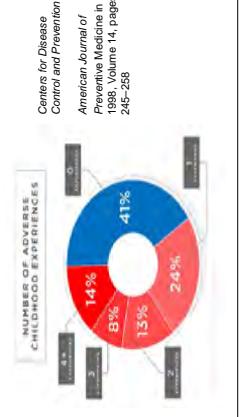
## A New Understanding of the Childhood Brain: Trauma



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## Adverse Childhood Experiences Study (ACES) 1995-1997



112

## WHAT ARE ACES? AND HOW DO THEY RELATE TO TOXIC STRESS?

ACES stand for Adverse Childhood Experiences. These experiences can include things like physical and emotional abuse, and household violence. The more ACES a child experiences, the more likely he or she is to suffer from things like poor academic achievement, and substance abuse later in life.

Harvard Center for the Developing Child

113

### Adverse Childhood Experiences Study (ACEs) 1995-1997

Household Dysfunction	Abruse	Neglect
Substance abuse at home	27%	Psychological 11% Emotional 15%
Parental separation/divorce	23%	Physical 10%
Mental illness at the home	19%	Sexual 2%
Domestic violence against mother	13%	
Incarcerated household member	5%	

Centers for Disease Control and Prevention  
*American Journal of Preventive Medicine* in 1998,  
 Volume 14, pages 245-248

114

### Adverse Childhood Experiences Study (ACEs) 1995-1997

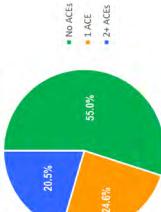


McKersie, L., & Schellenbach, J. (1998). The Adverse Childhood Experiences (ACE) Study: Implications for Health and Well-Being. *Centres for Disease Control and Prevention American Journal of Preventive Medicine*, 14, Pages 245-248

115

### Prevalence

#### US children with ACEs, 2016-17

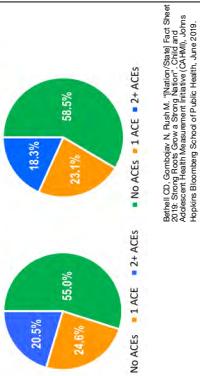


Bailey, C.D., Griswold, M., Ruth, M., Neelon, S., Fidell, S., Streed, D.R.,... Health Measurement Thrive (HMT) Survey Reporters. (2016). *Health Measurement Thrive (HMT) Survey Reporters: Biomonitoring Schools of Public Health, June 2015*.

116

### Prevalence

#### US children with ACEs 2016-17



Bailey, C.D., Griswold, M., Ruth, M., Neelon, S., Fidell, S., Streed, D.R.,... Health Measurement Thrive (HMT) Survey Reporters. (2016). *Health Measurement Thrive (HMT) Survey Reporters: Biomonitoring Schools of Public Health, June 2015*.

## Prevalence

117

1 in 5 children have experienced 2 or more ACEs

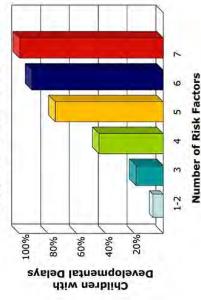
Nearly two-thirds of adults have been exposed to at least one ACE

2017 National Survey of Children's Health



- Physical and mental health disparities may originate from adverse experiences early in life
- Exposure to an unsafe physical environment/unhealthy relationships can cause epigenetic changes in a developing child, which may lead to physiological disruption and harmful behaviors

## Significant Adversity Impairs Development in the First Three Years



## Impact

Table 1: National Child Abuse and Neglect Data System by ACEs - 2014-2015 Reporting Year					
Number of Adverse Childhood Experiences	Total Cases	Reported Cases	Non-Reported Cases	Rate per 1,000 Children	Rate per 1,000 Adults
0	1,275,215	1,275,215	0	31.1%	31.1%
1	1,275,215	1,275,215	0	31.1%	31.1%
2	1,275,215	1,275,215	0	31.1%	31.1%
3	1,275,215	1,275,215	0	31.1%	31.1%
4	1,275,215	1,275,215	0	31.1%	31.1%
5	1,275,215	1,275,215	0	31.1%	31.1%
6	1,275,215	1,275,215	0	31.1%	31.1%
7	1,275,215	1,275,215	0	31.1%	31.1%
8	1,275,215	1,275,215	0	31.1%	31.1%
9	1,275,215	1,275,215	0	31.1%	31.1%
10+	1,275,215	1,275,215	0	31.1%	31.1%

Bellis CD, Gammie N, Rueh M. "Nation Fact Sheet 2019: Strong Roots Grow a Strong Nation". Child and Adolescent Health Measurement Initiative (CAHMI). Johns Hopkins Bloomberg School of Public Health; June 2019.

## 121

### Impacts of Trauma: Learning

Students who experience traumatic stress perform worse **academically** and **cognitively**, and their teachers reported **more challenging behavior in the classroom.**

**FACT ABOUT TRAUMA:**  
Students who have experienced four or more traumatic events (ACEs) were:  
 • 5x more likely to have poor attendance  
 • 3x more likely to have poor behavior problems  
 • 6.3x more likely to have un-identified behavioral health problems  
 • 2.1x more likely to have mental health problems  
 • 1.5x more likely to have physical health problems  
 • 1.4x more likely to have emotional health problems  
 • 1.2x more likely to have social health problems  
 Source: Pfeifer, O., Chaitanya, A., & Tjaden, M. (2018). Trauma, Stress, and Trauma and Stress Symptoms in Students: A Systematic Review. *School Mental Health*, 10(1), 1-15. doi:10.1007/s12210-016-9175-2

## 122

### Impacts of Trauma: Learning

A 2018 study of K-6 students also found each ACE increased a student's risk of absenteeism, behavior problems, and performing below-grade level in reading, writing, and mathematics.

Sch Pfeifer, O. (2018). Mar 23(11):137-146. doi: 10.1037/aer000256.  
The association between child abuse and neglect experience (ACE) and school success in elementary school children  
Balogh, C.I., Lengen, D.Z.

## 123

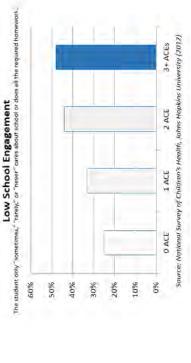
### Impacts of Trauma: Learning

- May cause intrusive thoughts, damage sleep schedules by causing nightmares, anger and moodiness, social withdrawal which interferes with memory and concentration
- High rate of absences, lower grades, behavioral problems
- Increased risk of:
  - Thoughts about safety or death
  - Loss of interest in normal activities
  - Sadness
  - School refusal
  - Irritability

The higher the ACE score the higher chance of children developing ADHD and cognitive impairments that may hinder their learning (3x more likely to have learning and behavioral problems)

### Impacts of Trauma: Learning

#### ACE Effects in School



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## Impacts of Trauma: Learning

### Prevalence of Social and Emotional Skills and Child Neglect of Children and Youth

Compared to those with no ACEs, children ages 3-5 with 2+ ACEs are four times more likely to have 3 or more social and emotional challenges

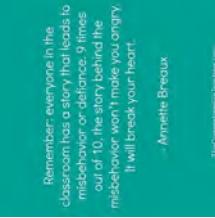


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## Impacts of Trauma: Physical and Emotional

- Headaches and stomachaches
- Lack of emotional control, Anger and aggression
- Develop more fears
- Intense reactions to reminders of the events
- More likely to struggle with romantic relationships
- Anxiety
- Lack of trust and feelings of isolation
- Low Self-esteem; Self-destructive Behavior
- The higher the ACE score, more adverse adult health
  - 4.6x more likely to have clinical depression

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Don't ask "What did you do?"  
Ask "what happened to you?"

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## How Trauma Impacts Health



Nadine Burke Harris (16 mins)

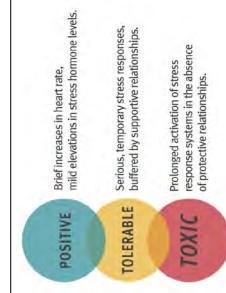
129

## Define Trauma



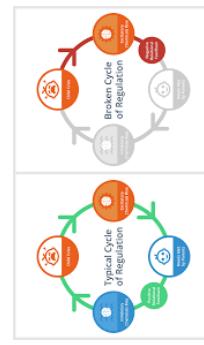
<https://www.youtube.com/watch?v=Ozv0DfB4CoA>

## Trauma and The Brain



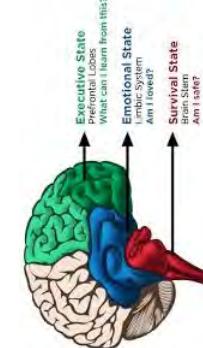
130

## Trauma and The Brain



131

## Trauma and The Brain

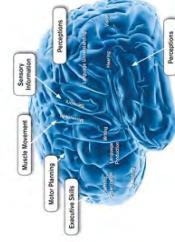


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## Trauma and The Brain

## Know Kids: Understanding Challenging Behaviors

### Neuroscience of challenging behaviors



## Trauma and The Brain

### Fight, Flight or Freeze



## Trauma and The Brain

### Fight, Flight or Freeze

## Trauma and The Brain

### Fight, Flight or Freeze



## Factors Affecting Response to Traumatic Event

**Risk factors:** characteristics, variables or hazards that, if present, make it more likely that an individual is vulnerable to develop a disorder or a traumatic response to an adverse experience (Gaurino & Chagnon, 2018)

**Protective factors:** skills, strengths, resources, supports or coping strategies in individuals, families, communities or the larger society that aid an individual in coping more effectively with stressful events and mitigate or eliminate risk in families and communities; these may interrupt the trajectory from risk to pathology (Gaurino & Chagnon, 2018)

**Psychological safety:** an individual's trust in that the world is generally a safe place free from harm (Chadwick Trauma-Informed Systems Project, 2013)

**Regulation:** ability to identify, evaluate, and modify one's experience and expression of affect or emotion; this ability may be negatively impacted as a result of exposure to trauma (Gaurino & Chagnon, 2018)

## Factors Affecting Response to Traumatic Event

### Build in the Bounce!

**Resilience:** an individual's ability to overcome adversity and continue his or her normal development. In the context of exposure to significant adversity, resilience is both the capacity of individual to navigate their way to health psychological, social, cultural, and physical resources that sustain their well-being, and their capacity individually and collectively to negotiate for these resources to be provided in culturally meaningful ways (Panter-Brick, 2015; Rutter, 1993)



## Resilience

### Adverse Childhood Experiences and Protective Factors

Protective Factors (PF): parental and community factors that can reduce the effects of past ACE's and prevent future ACE's from occurring

- Safe neighborhood
- Supportive neighbors
- 4 neighborhood amenities
- Well-knit neighborhood
- ≥ 5 family meals per week

• **Most significant PF:** a parent who communicates with the child about their ideas and interests

*Adverse Childhood Experiences and Protective Factors With School Engagement*  
Angela Salsbury, Amy Giumetti, Priscilla Hay, Pamela M. West, Paul Hwang  
*Psychiatry Research & Practice*, Volume 2019, Article ID 536153, 10 pages  
DOI: 10.1155/2019/536153

## Resilience



- Resiliency: ability to overcome ACEs, protective experiences and coping skills that help counteract adversity
  - Foundation: supportive relationships, adaptive skill-building, and positive experiences
- Interaction between biology (genetics) and environment (supportive adult/community) builds resilience in the face of negative outcomes
- Building resilience can happen at any age through appropriate health promoting activities (i.e. regular exercise and stress reduction practices)
- Adults who strengthen their own resilience through healthy behaviors are better models of those behaviors for children in their lives

Published in: Center for the Development of Children's Resilience, The National Forum of Thriving Children, 2019, Overcoming Adversity and Promoting Resilience, No. 2019-01, available at: <http://www.nationalforum.org/thrivingchildren/2019-01.pdf>

## Resilience

### Important Counterbalancing Factors in Building Resilience

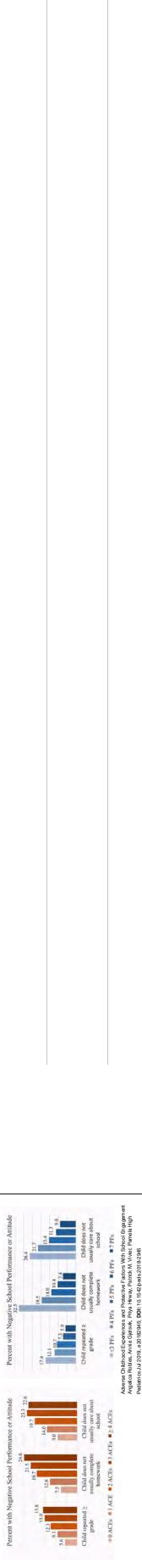
- Facilitating supportive adult-child relationships
- creating and maintaining a sense of self-efficacy and perceived control
- Providing opportunities to strengthen adaptive skills and self regulatory capacities
- Mobilizing sources of faith, hope, and cultural traditions
- Learning to cope with manageable stress to develop strength against toxic stress
- Single most common factor in children who develop resilience is at least one stable and committed relationship with a supportive adult in their life

Reference: Overcoming the Challenges of Adversity: The Nature and Effects of Protective Factors, Center for the Development of Children's Resilience, The National Forum of Thriving Children, 2019, Overcoming Adversity and Promoting Resilience, No. 2019-01, available at: <http://www.nationalforum.org/thrivingchildren/2019-01.pdf>

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## Impacts of Trauma: Protective Factors

Results: Negative school outcomes are associated with higher ACE scores and lower PF scores, and positive school outcomes with higher PF scores and lower ACE scores



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## Today's Agenda

What is trauma?

Who experiences trauma and why?

How does trauma impact learning?

What are trauma informed practices?

Why are they beneficial to all?

Examples of trauma informed practices

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**“**  
No significant learning  
occurs without a  
significant relationship.  
— Dr. James P. Comer,  
Yale Child Study Center  
edutropics

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## Attachment- Still Face Experiment



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**Trauma and Relationships** Secure Attachment

Dysregulation

**COREGULATION**

Self-Regulation

This diagram illustrates the concept of coregulation. It shows three components: 'Dysregulation' (represented by a child in distress), 'Coregulation' (represented by two children interacting), and 'Self-Regulation' (represented by a child looking calm). Arrows indicate a flow from dysregulation towards coregulation and then to self-regulation.

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**What Grows Brains Best?**

HARVARD CENTER ON THE DEVELOPING CHILD

Reduce sources of stress  
Responsive Relationships  
Strong core life skills

Supportive Relationships  
Responsive Relationships  
Strengthen Social Life

This diagram from the Harvard Center on the Developing Child illustrates the 'What Grows Brains Best?' cycle. It features a central yellow circle with three gears labeled 'Reduce sources of stress', 'Responsive Relationships', and 'Strong core life skills'. Arrows show a clockwise flow between these gears and the surrounding text boxes, which also mention 'Supportive Relationships' and 'Strengthen Social Life'.

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**Trauma and Relationships** Secure Attachment

**Learning**

Attachment Exploration

This diagram shows the interconnected nature of learning, attachment, and exploration. It features a central double-headed arrow between 'Learning' and 'Exploration', with 'Attachment' at the bottom. Below the arrows are silhouettes of children in various active poses, representing the physical and social aspects of these concepts.

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**Trauma and Relationships** Secure Attachment

This image shows an aerial view of a sailboat on a vast, blue ocean under a clear sky, symbolizing a sense of safety and exploration.

## How Does Trauma Undermine Learning?

### Language and Communication

When children are exposed to primarily "instrumental" language ("sit down", "be quiet") they may not develop language needed to express thoughts and feelings.

They may appear demanding and inflexible because they lack the language to communicate any other way.

## How Does Trauma Undermine Learning?

### Social and Emotional Regulation

May have difficulty regulating their emotions.

Overwhelmed by feelings of fear and stress that keep their brains hyper-aroused.

They may appear unable to control impulse; behaving aggressively; feeling unsure about security of relationships; misunderstanding facial and body expressions.

## How Does Trauma Undermine Learning?

### Building Relationships

When early experiences have been unsafe and unstable, keeping others at a distance is a way to emotionally, and sometimes physically, protect themselves.

May engage in dangerous behaviors or use hurtful language to protect themselves from forming relationships that could cause pain or harm.

## How Does Trauma Undermine Learning?

### Play

Trauma can interfere with imaginative or creative play. The feelings that arise during play may overwhelm children.

May have trouble initiating play with other children and need support. May choose younger children because their play skills are young for their age.

## How Does Trauma Undermine Learning?

### Play

## How Does Trauma Undermine Learning?

### Withdrawal

Children may have a hard time listening and concentrating because they dissociate or freeze when their stress response is triggered by sounds, smells or behaviors.

Even friendly touch can cause a child to be triggered or dissociate if surprising or misunderstood.

Withdrawal leaves children vulnerable to falling behind or being labeled as 'daydreamers.'

## Trauma Informed Responses

### Behaviors

Being fearful, clingy or unusually scared or being alone or separated from parents	Offer frequent reassurances; "I will be here with you all morning," "I'll be waiting at the sink when you come out of the restroom."
	Remind children to look at posted photos of family.
	Point to the posted schedule to confirm what will be happening next and where you will be.



## Trauma Informed Responses

### Behaviors

Expressing fears that a disaster isn't over or will happen again	Regularly provide calm, honest explanations
--	---



## Trauma Informed Responses

### Behaviors

Regressing to behaviors they've outgrown, such as thumb-sucking, wetting their pants, or using baby talk	Remain calm and matter-of-fact.
--	---------------------------------



## Trauma Informed Responses

### Behaviors

Regressing to behaviors they've outgrown, such as thumb-sucking, wetting their pants, or using baby talk	Remain calm and matter-of-fact.
--	---------------------------------



157

<b>Trauma Informed Responses</b>	
<b>Behaviors</b>	
Sleeping fitfully, not being able to fall asleep, having nightmares, or screaming in their sleep	Stay near the child before they nap, as they fall asleep. Play calming music. Have the child bring a stuffed animal.



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<b>Trauma Informed Responses</b>	
<b>Behaviors</b>	
Recreating a disaster in their play	Pose challenges that let the child have control over the disaster: "What can you do to make your Leggo House safer?"



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<b>Trauma Informed Responses</b>	
<b>Behaviors</b>	
Acting out, aggressively hitting or kicking others	Let them know it's ok to be angry, but not to hurt anyone. Redirect to a safe place.



160

<b>Trauma Informed Responses</b>	
<b>Behaviors</b>	
Being withdrawn, not talking	Provide extra attention. Let the child know that you are here if they want to talk, but don't force them to do so.



## Screening for Trauma

The Child Trauma Screener (CTS) was developed by the Connecticut Department of Health and Families and Yale to provide a free screening resource for those working with or identifying children who have suffered from trauma

- 10 item assessment
  - Includes items that discuss events and reactions, so that reactions to an unreported event may still be recorded
  - Available for children ages 6-17, 3-6 year old is currently being developed
  - Caregiver and child report forms for deeper understanding

U.S. Patent and Trademark Office, U.S. Copyright Office, and/or Yale University. All rights reserved. The Child Trauma Screen 29 Oct. 2016. Patent and Trademark Office, U.S. Copyright Office, and/or Yale University. All rights reserved.

## Screening for Trauma

CTS Child Report Trauma Screener

## Screening for Trauma

CTS Caregiver Report Trauma Screener

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CTS Caregiver Report Trauma Screener

## Screening for Trauma

Example of a Family Stress Inventory that could be used to catalogue events that families who have suffered ACE's may have experienced

Friends Center for Children at Yale University.

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Peg Oliveira, PhD  
Executive Director  
[www.gesellinstitute.org](http://www.gesellinstitute.org)  
[peg@gesellinstitute.org](mailto:peg@gesellinstitute.org)



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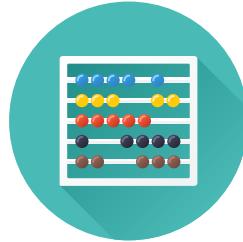
*Build*  
on your strengths  
as an educator



*Discover*  
recommendations for  
activities and more



*Work*  
towards goals for  
your classroom



*Implement*  
ideas and concepts from  
professional development  
workshops



*Create*  
stronger relationships  
with staff and parents



*Collaborate*  
with a supportive and  
experienced educator

# COACHING FOR EARLY EDUCATORS

Contact a  
coach to get  
started!

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*Paulette Maggiacomo*

is a former early educator with 25 years of experience. She holds a Bachelor's degree in Elementary Education and a Master's degree in Reading Education. Paulette is certified through the University of Florida Lastinger Center Coaching Academy.

*Susan Roberts*



is an educator with 29 years of experience in Indian River County. She holds a Bachelor's and a Master's in Early Childhood Education and a Specialist degree in Educational Leadership. Susan is certified through the University of Florida Lastinger Center Coaching Academy.



# COMING SOON FOR EARLY EDUCATORS



## Foundations of Child Development & The Brain in Early Childhood

First Presbyterian Church  
October 12, 2019

featuring  
Dr. Peg Oliveira, Executive Director,  
Gesell Institute of Child Development

## Emergent Literacy

Vero Beach Museum of Art  
November 16, 2019

featuring  
Cynthia Raso, Director of Office of Engagement, Smithsonian Early Enrichment Center

## Conscious Discipline

First Presbyterian Church  
February 1, 2020

featuring  
Kim Hughes, Conscious Discipline Master Instructor

## The Importance of Early Experiences & Sensory Play for Every Day

First Presbyterian Church  
March 14, 2020

featuring  
Lisa "Ooey Gooey Lady" Murphy, M. Ed.





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