Contact Information

Cristina Codario
Public Policy Regional Coordinator, Trying Together
cristina@tryingtogether.org

Lindsey Ramsey
Public Policy Regional Coordinator, Trying Together
lindsey@tryingtogether.org
Trying Together supports high-quality care and education for young children by providing advocacy, community resources, and professional growth opportunities for the needs and rights of children, their families, and the individuals who interact with them.

Newsletter Sign Up
Stay up to date on Trying Together news and events: bit.ly/receive-emails
Vision

Trying Together envisions a future in which all caregivers feel valued.
Icebreaker

• Write down a memory about a milestone achievement that your child reached, as a caregiver how did that make you feel?
"I see your fear, and it’s big.
I also see your courage, and it’s bigger.
We can do hard things, baby.
We are fireproof."

Untamed by Glennon Doyle
Goals

1.) Familiarize caregivers of young children with how the brain develops.

2.) Understanding the impact of interactions, environment, and trauma on a child’s brain.

3.) Developing an understanding of how strong brain development can be effectively supported through fun and engaging activities.
Presentation Overview:

Topic 1: Experiences and Interactions
   Topic 2: Brain Basics
   Topic 3: Environment
   Topic 4: Trauma
   Topic 5: Support Systems/ A Caregivers Role in Development
Experiences & Interactions

The brain pathways underlying communication skills are being built early in life, from the prenatal period to about 7 years of age. Active participation in communicating (both talking and listening) during the period of plasticity will provide the child with strong brain pathways for communication skills for the rest of their lives.

Brain research shows that 90% of brain development occurs during the first five years.
Mother’s Speech and a Child’s Vocabulary

Dwayne
Dwayne’s mother is a hair stylist and she is very talkative. Dwayne hears a lot of speech directed right to him starting at birth.

By 2 years of age Dwayne is expected to have 600 words in his vocabulary.

Both mothers live in the same neighborhood.

Dwayne and Jayden are the same age.

Neither child is experiencing trauma or developmental delays.

Jayden
Jayden, has a less talkative mother who is a dental hygienist so he has much less exposure to verbal communication in the first 2 years of his life.

Jayden is expected to have about 150 words in his vocabulary at age 2.
Dwayne and Jayden’s Outcomes

Although both Dwayne and Jayden will keep adding words to their vocabulary, because Dwayne built stronger brain circuits earlier on, speaking will always be easier for him.

- Use of brain circuits after the plastic period continues to build the circuits but the process is much slower and never as effective in terms of building circuits as during the plastic period.
Brain Architecture
Brain Development Overview

- Humans are born with virtually all of the brain cells they will ever have.
  - **Fun Fact:** At birth infants roughly have 100 BILLION brain cells!!

- Genes and environment interact throughout brain development
  - Genes **form connections** among major brain regions, while the environment and experience refines the connections: enhancing some connections while eliminating others (neurons are removed or “pruned” away)

- Developmental periods for the brain areas are called the “**plastic period**” (times when the area is most changeable)
  - How strong connections become in a brain area is determined by how much the circuit is used during the plastic period.
Genes + Interactions shape the brain

The brain’s ability to change in response to experiences

The amount of effort such change requires

AGE

2 4 6 8 10 20 30 40 50 60 70

SOURCE: LEVITT (2009)

Center on the Developing Child

HARVARD UNIVERSITY

www.developingchild.harvard.edu
Circuit Areas

Brain cells are programmed to reach out and connect to other neighboring brain cells. These cells form groups of related cells that act and develop together, they are referred to as circuits.

Visual
Social/ Emotional
Communication
Fine and Gross Motor
Complex Thinking
Serve and Return
Let’s Make Connections

A strong circuit formed during the **plastic period** will be available for the rest of life. **Circuits can still be formed later in life but they will not be as strong** and building them will require many more repetitions than during the plastic period.

*How can a caregiver build a strong connection between the visual and communication circuit?*

*Do all circuit connections come from good experiences?*
Environment

A child’s environment and experiences play an important role in shaping their brain development.

Supportive environments help children learn new skills. When children are in an environment where they are loved, taken care of, and adults are there to motivate and encourage them, they will be more likely to learn new skills.
Trauma

An event, or series of events, that overwhelms the central nervous system (brain & spinal cord)

Simply: trauma is what occurs when your solution (active response to threat) does not work

Trauma

- Changes the brain
- Includes “Toxic Stress”, Adverse Childhood Experiences, Etc.
- Activates Survival Instinct (Triggers)
Toxic Stress

Types of stress responses

**POSITIVE**
A normal and essential part of healthy development
EXAMPLES
getting a vaccine, first day of school

**TOLERABLE**
Response to a more severe stressor, limited in duration
EXAMPLES
loss of a loved one, a broken bone

**TOXIC**
Experiencing strong, frequent, and/or prolonged adversity
EXAMPLES
physical or emotional abuse, exposure to violence
The Brain and Toxic Stress

Be the parents we want to be
Cycle of Learning

In order to learn any skill children first need to become interested in learning the skill, then to engage their own brain circuits in doing the skill. Lastly, they need to develop self-confidence in doing the skill so they are willing to repeat it thousands of times to develop strong brain circuits for the skill and to have the courage to progress with learning more difficult skills.

Interest, engagement, and self confidence support a child’s cycle of learning
Support Systems

Charging Stations: These are people and places children can go within their community to receive positive support and guidance that will bring them comfort and support their developmental journey.

Parents are not the only ones who can provide support for the child. Support can come from those who serve as charging stations in the community, such as a best friend, a teacher, a coach, etc.

What supportive actions can a charging station take to ensure a child is engaged, interested and building self confidence in their cycle of learning? (Be specific and give examples)
ELRC Region 5

**Early Learning Resource Center (ELRC) Region 5** provides a single point-of-contact for Allegheny County families, early learning service providers, and communities to gain information and access services that support high-quality child care and early learning programs.
A Caregivers Role in Development

Caregivers serve as charging stations in every interaction they have with children. Being a positive support is a way to support the learning cycle of each child in your care. Here are some actions that can help facilitate supportive learning environments for young children...

- DAP
- Serve and Return
- Culturally Responsive Environments
- Family and Community Partnerships
- Health and Safety
- Play
Be An Advocate

Start Strong PA
Advocate for affordable high-quality child care: startstrongpa.org

Pre-K for PA
Advocate for increased access to high-quality pre-k: prekforpa.org

Childhood Begins at Home
Advocate for evidence-based home visiting: childhoodbeginsathome.org

Support Our Public Policy Agenda
Receive advocacy alerts right in your inbox: bit.ly/advocacy-alert
More Resources from Trying Together

Allegheny Child Care - www.alleghenychildcare.org
Early Learning Resource Center Region 5 - elrc5.alleghenycounty.us
The Homewood Early Learning Hub & Family Center -
www.tryingtogether.org/community-resources/hub-and-family-center
Developmentally Appropriate Parenting (DAP) Series -
https://tryingtogether.org/parenting-resources/
Share Your Feedback!

Fill out this survey to receive DAP Series cards via mail -
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Resources


Retrieved 2021, from

Retrieved 2020, from https://empoweringeducation.org/defining-trauma/
Thank you.