

# ***CHILDREN'S EMOTIONAL DEVELOPMENT***

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### ***Objectives:***

- **Participant will be able to describe differences in emotional control from infancy, toddler and preschool levels of development.**
- **Participant will be able to define the term temperament and describe what this means to child care providers.**
- **Participant will be able to list influences upon a child's emotional health.**
- **Participant will be able to explain why emotional development is an essential part of child care.**

## ***INTRODUCTION***

A growing body of scientific evidence tells us that emotional development begins early in life, that it is a critical aspect of the development of overall brain architecture and that it has enormous consequences over the course of a lifetime. These findings have far-reaching implications for policy makers and parents, and therefore demand our attention.

From birth, children rapidly develop their abilities to experience and express different emotions, as well as their capacity to cope with and manage a variety of feelings. The development of these capabilities occurs at the same time as a wide range of highly visible skills in mobility (motor control, thinking (cognition) and communication (language). Yet, emotional development often receives relatively less recognition as a core emerging capacity in the early childhood years.

The foundations of social competence that are developed in the first five years are linked to emotional well-being and affect a child's later ability to functionally adapt in school and to form successful relationships throughout life. As a person develops into adulthood, these same social skills are essential for the formation of lasting friendships and intimate relationships, effective parenting, the ability to hold a job and work well with others, and for becoming a contributing member of a community.

Disregarding this critical aspect of the developing child can lead parents and policy makers to underestimate its importance and to ignore the foundation that emotions establish for later growth and development. Thus, it is essential that young children's feelings get the same level of attention as their thinking. In fact, learning to manage emotions is more difficult for some children than learning to count or read and may, in some cases, be an early warning sign of future psychological problems. The failure to address difficulties in this equally important domain can result in missed opportunities for interventions. Had they been initiated early, these interventions could have yielded tremendous benefits for large numbers of children and for society.

## ***WHAT SCIENCE TELLS US***

The core features of emotional development include the ability to identify and understand one's own feelings, to accurately read and comprehend emotional states in others, to manage strong emotions and their expression in a constructive manner, to regulate one's own behavior, to develop empathy for others and to establish and sustain relationships.

Emotional development is actually built into the architecture of young children's brains in response to their individual personal experiences and the influences of the environments in which they live. In fact, emotion is a biologically based aspect of human functioning that is "wired" into multiple regions of the central nervous system that have a long history in the evolution of our species. These growing interconnections among brain circuits support the emergence of increasingly mature emotional behavior, particularly in the preschool years. Stated simply, as young children develop, their early emotional experiences literally become embedded in the architecture of their brains. Here is what we know:

The emotional experiences of newborns and young infants occur most commonly during periods of interaction with a caregiver (such as feeding, comforting and holding). Infants display distress and cry when they are hungry, cold, wet or in other ways uncomfortable, and they experience positive emotions when they are fed, soothed and held. During this early period, children are incapable of modulating the expression of overwhelming feelings, and they have limited ability to control their emotions in the service of focusing or sustaining attention.<sup>13</sup> Associations between positive emotions and the availability of sensitive and responsive caregiving are strengthened during infancy in both behavior and brain architecture.

The emotional states of toddlers and preschoolers are much more complex.<sup>21</sup> They depend on their emerging capacities to interpret their own personal experiences and understand what others are doing and thinking, as well as to interpret the nuances of how others respond to them. As they (and their brains) build on foundations that are established earlier, they mature and acquire a better understanding of a range of emotions. They also become more capable of managing their feelings, which is one of the most challenging tasks of early childhood.

By the end of the preschool years, children who have acquired a strong emotional foundation have the capacity to anticipate, talk about and use their awareness of their own and others' feelings to better manage everyday social interactions. Their emotional repertoires have expanded dramatically and now include such feelings as pride, shame, guilt, and embarrassment — all of which influence how individuals function as contributing members of a society.<sup>21,28</sup> Throughout the early childhood years, children develop increasing capacities to use language to communicate how they feel and to gain help without “melting down,” as well as to inhibit the expression of emotions that are inappropriate for a particular setting.

When feelings are not well managed, thinking can be impaired. Recent scientific advances have shown how the interrelated development of emotion and cognition relies on the emergence, maturation and interconnection of complex neural circuits in multiple areas of the brain, including the prefrontal cortex, limbic cortex, basal forebrain, amygdala, hypothalamus and brainstem. The circuits that are involved in the regulation of emotion are highly interactive with those that are associated with “executive functions” (such as planning, judgment and decision making), which are intimately involved in the development of problem-solving skills during the preschool years.<sup>31</sup> In terms of basic brain functioning, emotions support executive functions when they are well regulated but interfere with attention and decision making when they are poorly controlled.

We now know that differences in early childhood temperament — ranging from being extremely outgoing and adventurous to being painfully shy and easily upset by anything new or unusual — are grounded in one's biological makeup. These variations lead to alternative behavioral pathways for young children as they develop individual strategies to control their emotions during the preschool years and beyond. They also present diverse challenges for parents and other adults who must respond differently to different kinds of children. When it comes to finding the “best” approach for raising young children, scientists tell us that one size does not fit all.

Young children are capable of surprisingly deep and intense feelings of sadness (including depression), grief, anxiety and anger (which can result in unmanageable aggression), in addition to the heights of joy and happiness for which they are better known. For some children, the preschool years mark the beginning of enduring emotional difficulties and mental-health problems that may become more severe than earlier generations of parents and clinicians ever suspected.

The emotional health of young children — or the absence of it — is closely tied to the social and emotional characteristics of the environments in which they live, which include not only their parents but also the broader context of their families and communities. Young children who grow up in homes that are troubled by parental mental-health problems, substance abuse or family violence face significant threats to their own emotional development. In fact, the experience of chronic, extreme and/or uncontrollable maltreatment has been documented as producing measurable changes in the immature brain.

Children's early abilities to deal with their emotions are important not only for the foundation these capacities provide for the future, but also for the children's current social functioning with their parents, teachers and peers. In fact, differences in how young children understand and regulate their own emotions are closely associated with peer and teacher perceptions of their social competence, as well as with how well-liked they are in a child-care setting or preschool classroom.

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### Test Questions:

**1. Children rapidly develop their abilities to experience and express different emotions, as well as their capacity to cope with and manage a variety of feelings**

- a.  when they enter preschool.
- b.  when they start to develop verbal language skills.
- c.  immediately after closure on Erikson's first psychosocial dilemma, *Trust vs. Mistrust*.
- d.  from birth.

**2. We now know that differences in early childhood temperament**

- a.  are not related to individual strategies to control emotions during the preschool years.
- b.  present diverse challenges for parents and other adults who must respond differently to different kinds of children.
- c.  are all related to family dynamics.
- d.  will direct caregivers to an approach that will work with all children.

**3. Learning to manage emotions is never as difficult for children as learning to count or read.**

True       False

**4. As young children develop, their early emotional experiences literally become embedded in the architecture of their brains.**

True       False

**5. Young children are capable of surprisingly deep and intense feelings of sadness, grief, anxiety and anger.**

True       False

**6. Typically, the emotional health of young children is only loosely related to the social and emotional characteristics of their environment.**

True       False

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### **UNFOUNDED ASSERTIONS IN THE NAME OF SCIENCE**

As the public's appetite for scientific information about the development of young children is whetted by exciting new findings, the risk of exaggerated or misleading messages grows. Within this context, it is essential that scientific fact be differentiated from popularly accepted fiction.

There is no credible scientific evidence that young children who have been exposed to violence will invariably grow up to be violent adults themselves. Although these children clearly are at greater risk for adverse impacts on brain development and later problems with aggression, they are not doomed to poor outcomes, and they can be helped substantially if provided with early and appropriate treatment, combined with reliable and nurturing relationships with supportive caregivers.

Science does not support the claim that infants and toddlers are too young to have serious mental-health problems. In fact, young children who have experienced significant maltreatment exhibit an early childhood equivalent of post-traumatic stress disorder, which presents a predictable array of clinical symptoms that are amenable to successful therapeutic intervention.

## ***THE SCIENCE-POLICY GAP***

The fact that young children have feelings is old news. The extent to which infants can experience deep emotional pain as a result of early traumas and losses is less understood. The realization that young children can have serious mental-health problems, including anxiety disorders and signs of depression accompanied by the same kind of brain changes seen on electroencephalograms in clinically depressed adults, is startling news to most people. The fact that significant and prolonged emotional distress can affect the emerging architecture of a young child's brain should be a sobering wake-up call for society as a whole.

Despite the availability of rich and extensive knowledge on the emotional and social development of young children, including its underlying neurobiology, current early-childhood policies focus largely on cognition, language, and early literacy. Policies addressing children's emotional and behavioral needs have been the exception, not the rule. This gap between what we “know” about healthy emotional development and the management of behavioral difficulties, and what we “do” through public policies and programs, is illustrated by the following examples:

- Uneven availability of support for parents and providers of early care and education to deal with common, age-appropriate behavioral challenges, such as discipline and limit setting.
- Limited caregiver and teacher training to evaluate and deal with children who present significant emotional and/or behavioral problems in early care and education programs. This is particularly alarming in the face of recent evidence of dramatic increases in prescriptions for behavior-modifying medications to treat preschoolers.
- Minimal expertise in early childhood development or “infant mental health” within child-welfare agencies that assess and treat children who have been the victims of serious maltreatment, despite extensive evidence that very young children can experience debilitating anxiety and trauma from parental abuse or neglect or from witnessing violence in their family or neighborhood, as well as data illustrating that early interventions can moderate the effects of these traumas.

## ***IMPLICATIONS FOR POLICY AND PROGRAMS***

The science of early childhood development is sufficiently mature at the present time to support a number of well-documented, evidence-based implications for those who develop and implement policies that affect the health and well-being of young children.

Five compelling messages are particularly worthy of thoughtful consideration:

- All early childhood programs, including Head Start, must balance their focus on cognition and literacy skills with significant attention to emotional and social development. Children clearly need the social and emotional

- capabilities that enable them to sit still in a classroom, pay attention, and get along with their classmates just as much as they need the cognitive skills required to master the reading and math concepts taught in kindergarten.
- The rich and growing science of early emotional and social development must be incorporated into services to support parents who are struggling to manage routine behavioral difficulties in their young children, as well as those who are trying to figure out whether, when and how to deal with more serious social or emotional problems.
  - Providers of early care and education must have sufficient knowledge and skills to help children who present common behavior problems early on, particularly those who exhibit significant aggression or difficulties with attention and "hyperactivity." The achievement of this goal requires a two-pronged approach. First, greater attention must be focused on the social and emotional development of children in both pre-professional training programs and continuing professional education. Second, all early childhood programs must have access to specialized mental-health services that have professionals available to meet the needs of young children whose problems cannot be addressed adequately by front-line staff.
  - Expertise in early identification, assessment and clinical treatment must be incorporated into existing intervention programs to address the complex and currently unmet needs of young children with serious mental-health problems such as depression, anxiety and significant antisocial behaviors. Central to this challenge is the need to accurately differentiate transient emotional difficulties that reflect a "phase" that the child will outgrow from diagnosable disorders that require clinical treatment.
  - All child-welfare agencies that have responsibility for investigating suspected abuse or neglect must include a sophisticated assessment of the child's developmental status, including cognitive, linguistic, emotional and social competence. This could be accomplished through closer collaboration between child-protective services and early intervention programs for children with developmental delays or disabilities, as mandated by the recently enacted Keeping Children and Families Safe Act of 2003 (Public Law
  - 108-36).

These implications for policy and practice are striking in their simplicity, the extent to which they reflect common sense and their solid grounding in the science of early childhood and brain development. Closing the science-policy gap as it affects the future of our children, and therefore our society, should be an important priority for all who are engaged in public life.

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### Test Questions:

**7. Young children can have serious mental-health problems, including anxiety disorders and signs of depression**

- a.  but these serious symptoms are due to organic brain disorders.
- b.  and often there is no know cause for these symptoms.
- c.  accompanied by the same kind of brain changes seen on electroencephalograms in clinically depressed adults.
- d.  but these are not detectable until the child reaches early adolescence.

**8. Part of the challenge in the early identification of severe emotional problems is**

- a.  the need to accurately differentiate transient emotional difficulties that reflect a “phase” that the child will outgrow from diagnosable disorders that require clinical treatment.
- b.  to get all children in preschool so that proper evaluations can be made.
- c.  not to become too focused on "problems" because these types of difficulties affects so few children.
- d.  there are no specialists who are qualified to make this type of diagnosis.

**9. Young children who have been exposed to violence will invariably grow up to be violent adults themselves.**

- True       False

**10. Early emotional and social development must be incorporated into services to support parents who are struggling to manage routine behavioral difficulties in their young children.**

- True       False

\_\_\_\_\_

**Name** \_\_\_\_\_

**Location** \_\_\_\_\_

\_\_\_\_\_

**REFERENCES** (To link references to the text of this training module, go to the original article [http://www.developingchild.net/pubs/wp/Childrens\\_Emotional\\_Development\\_Architecture\\_Brains.pdf](http://www.developingchild.net/pubs/wp/Childrens_Emotional_Development_Architecture_Brains.pdf))

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