



# The Vortex of Violence

*How Children Adapt and Survive in a Violent World*



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This booklet is one in a series developed by the ChildTrauma Academy to assist parents, caregivers, teachers and various professionals working with maltreated and traumatized children.

Adapted in part from: *"Maltreated Children: Experience, Brain Development and the Next Generation"* (W.W. Norton & Company, New York, in preparation)

## INTRODUCTION

Childhood is a dangerous time. For centuries, children, the most vulnerable of our species, have struggled to survive this harsh world. For infants and children, survival is dependent upon adults, most typically, the nuclear family. It is in the family setting that the child is fed, clothed, sheltered, nurtured and educated, directly and indirectly, in the language, beliefs, and value systems of the culture. It is in the family setting in which the non-genetic 'DNA' of the culture is transmitted from generation to generation, allowing the amazing process of socio-cultural evolution.

When the child's development is characterized by structure, predictability, nurturing, and enriching emotional, social and cognitive experiences, a vulnerable and powerless infant can grow to become a happy, productive, insightful and caring member of society -- contributing to us all. Sadly, few families and communities can provide this idealized early life. Indeed, it is in the familial incubator that children are most frequently manipulated, coerced, degraded, inoculated with destructive beliefs and exposed to violence.

## VIOLENCE IN THE HOME

Infants and children depend upon adults for survival. It is in the family setting that the child is fed, clothed, sheltered, nurtured and educated. Unfortunately, it is in the familial incubator that children are most frequently manipulated, coerced, degraded, inoculated with destructive beliefs and exposed to violence.

The home is the most violent place in America (Straus, 1974). In 1995, the FBI reported that 27% of all violent crime involves family on family violence, 48% involved acquaintances with the violence often occurring in the home (National Incident-Based Reporting System, Uniform Crime Reporting Program, 1999). Children are often the witnesses to, or victims of, these violent crimes. The major context for violence in America is the family (Straus, 1974). Intrafamilial abuse, neglect and domestic battery account for the majority of physical and emotional violence suffered by children in this country (see Koop et al., 1992; Horowitz et al., 1995; Carnegie Council on Adolescent Development, 1995; Perry, in press). Despite this, a majority of our entertainment, media and public policy efforts focus on community or predatory violence. Understanding the roots of community and predatory violence is impossible unless the effects of intrafamilial violence and the impact of abuse and neglect on the development of the child are examined. The adolescents and adults responsible for violence in the community developed these violent behaviors as a result of intrafamilial violence during childhood (O'Keefe, 1995; Myers et al., 1995; Mones, 1991; Hickey, 1991; Loeber et al., 1993; Lewis et al., 1989; Perry, 1998; Perry, 2000).

Violent crime statistics, however, grossly underestimate the prevalence of violence in the home. It is likely that less than 5% of all domestic violence results in a criminal report. Intra-familial abuse and domestic battery account for the majority of physical and emotional violence suffered by children in this country (see Koop et al., 1992; Horowitz et al., 1995; Carnegie Council on Adolescent Development, 1995). This violence takes many forms. The child may witness the assault of her mother by father or boyfriend. The child may be the

direct victim of violence - physical or emotional - from father, mother or even older siblings. Straus and Gelles (1996) have estimated that over 29 million children commit an act of violence against a sibling each year. The child may become the direct victim of the adult male if he or she tries to intervene and protect mother or sibling. While these all cause physical violence, an additional destructive element of this intra-familial toxicity is emotional violence - humiliation, coercion, degradation, and threat of abandonment or physical assault.

## INTRAGENERATIONAL CONSERVATION OF VIOLENCE: THE VORTEX

Men commit most violence against men. Men commit most violence committed against women. Women commit most violence against children. Most violence committed by children is against other children. Children commit most violence against pets. The intergenerational 'cycle of violence' is well documented. This intergenerational 'vortex of violence' is not. Violent behavior flows down a power differential. The majority of our violence initiatives and examinations of violence focus on violence of a specific type -- violence committed against voters (typically property owners). Indeed if one man hits another man (especially one with a job), this is a felony - assault and battery, while the same physical violence against a wife or a child is culturally sanctioned, often rationalized as 'deserved' or 'discipline'.

Prosecution of the former would proceed; prosecution of the latter would never be pursued. Indeed the victim would often be openly or tacitly ridiculed, and made to feel responsible -- "they deserved it."



***When Dad Yells.*** This is a drawing by a three-year-old child from a home plagued by domestic violence. This is his depiction of his angry father.

The vortex of violence is fueled by the 'conservation of violence'. When you are helpless, frustrated, humiliated and overwhelmed, it is common to bring this into your interactions with others. If the other is smaller and weaker, it is likely that the direction of frustration and violence will be from more powerful to least powerful. A typical flow of rage will start with a man

frustrated and humiliated outside of the home. He will absorb this humiliation, modify some of it, and pass some on. At home, he will direct his anger and rage at his spouse -- she will absorb, modify and pass on. The

overwhelmed and assaulted mother (usually when father leaves) will pass the humiliation and violence to the demanding children. These older children will absorb, modify and pass on -- to younger or weaker children. The child at the center of the vortex may have no human to 'pass on' to -- they will absorb, accumulate, wait until they are old enough, big enough, strong enough to hurt humans -- or they may pass on to animals. Children kill more cats than dogs do. Cruelty to animals is often a sign that a child has been exposed to violence or abuse.

Living in this vortex of violence creates violent children. And what this process costs in robbed emotional, social, cognitive and physical is incalculable. Different individuals 'absorb' better -- and pass on less. Yet they pay one way or the other -- absorb and modify -- creating anxiety, depression, cognitive impairment -- and, often violence. It is the rare and strong person that can carry their trauma without having it spill into the next generation. For as many individuals that carry their pain, there are those that pass theirs on -- not to just one but to many. Violence of one person can leave a wake of destruction in the lives of hundreds.

## **MEDIA VIOLENCE**

In homes where no physical or emotional violence is present, children are still bathed in violent images; the average child spends more than three hours a day watching television. Television, videogames, music and film have become increasingly violent (Donnerstein et al., 1995). Huston and colleagues have estimated that the average 18 year old will have viewed 200,000 acts of violence on television (Huston, et al., 1992). Even with solid emotional, behavioral, cognitive and social anchors provided by a healthy home and community, this pervasive media violence increases aggression and antisocial behavior (Lewis et al., 1989; Myers et al., 1995; Mones, 1991; Hickey, 1991; Loeber et al., 1993; O'Keefe, 1995), contributes to a sense that the world is more dangerous than it is (Gerbner, 1992) and desensitizes children to future violence (Comstock and Paik, 1991). In children exposed to violence in the home, these media images of power and violence are major sources of 'cultural' values, reinforcing what they have seen modeled at home.

## **COMMUNITY AND SCHOOL VIOLENCE**

There has been a dramatic increase in juvenile violence over the last ten years. From 1986 to 1996 there was a 60% increase with juveniles now accounting for 19% of all violent crime (Snyder, 1997). Much of this is youth on youth violence. The violence in communities witnessed by youth has become so pervasive in some communities that in some studies, over half of all children surveyed had witnessed some form of violence in the year prior to the survey (Taylor et al., 1992; Richters & Martinez, 1993; Horowitz et al., 1995). The most heinous violence in schools has been widely publicized with the series of school shootings from 1992 to 1999. Yet the more common forms of school violence are intimidation, threat and simple assault. For thousands of children, school is not safe. It has been estimated that more than 250,000 students are attacked in school each month (Garrity, et al., 1994). For too many, school is a place of fear, dominated by the potential for harm and a sense of pervasive threat.

The purpose of this paper is to describe how children survive in this 'vortex' of violence. Persisting threat results in persisting fear. Persisting fear and adaptations to the threat present in the vortex of violence alter the development of the child's brain, resulting in changes in physical, emotional, behavioral, cognitive and social functioning. These changes in the developing child, in turn, contribute to the transgenerational cycle of violence as these young children become adolescents -- and finally, the adults that shape our society, the adults that choose and determine our cultural values, the adults that raise the next generation of children in a new intragenerational vortex of violence.

## VIOLENT YOUTH

The majority of the initiatives dedicated to studying and intervening in violence have focused on violence committed by males. While men commit the vast majority of violence against women, the majority of direct violence to children takes place in the home

The children who grow up to be violent in the streets are the products of this vortex of violence within the very environments entrusted to nurture, protect and educate them -- the home. These children are the products of their environments, adapted to living in a situation of pervasive threat, with all the expected adaptations in emotional, behavioral, cognitive, social and physiological functioning. The vortex of violence creates a pervasive sense of threat -- an incubator of terror -- for the developing child. The results are predictable.

Children raised in the vortex of violence are much more likely to be violent (e.g., Loeber et al., 1993; Lewis et al., 1989; Koop et al., 1992; Hickey, 1991; Halperin et al., 1995). This is related to many factors; in our society through modeling and media we teach that violent aggression is acceptable, even a preferable and honorable, solution to problems. Analysis of much of the violent behavior by children and adolescents today reveals a troubling degree of impulsive, reactive violence. This violence is often interpreted by the perpetrators as defensive (see Figure 4). "If I didn't shoot him, he would have shot me." "I could tell that he was going to jump me -- he looked me in the eyes." "Listen, man, I just did him before he did me." These verbalizations reflect the

ADULT ADAPTATION	Rest	Vigilance	Freeze	Flight	Fight
CHILD ADAPTATION	Rest	Vigilance Compliance	Resistance Defiance	Dissociation Crying	Aggression Regression
BRAIN REGIONS	Cortical	Cortical Limbic	Limbic Midbrain	Midbrain Brainstem	Brainstem
COGNITION	Abstract	Concrete	"Emotional"	Reactive	Reflexive
MENTAL STATE	CALM	AROUSAL	ALARM	FEAR	TERROR

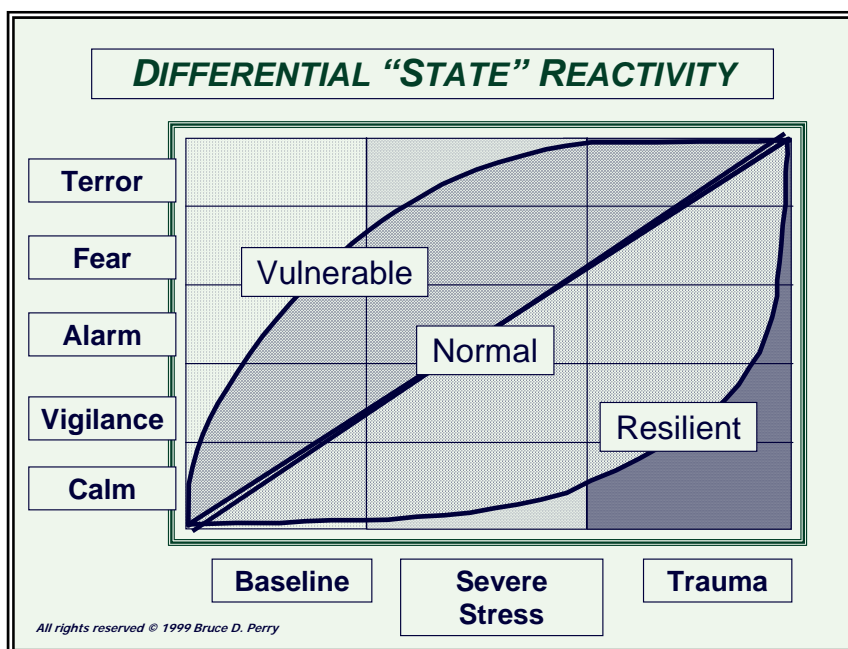
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**Figure 1:** When threatened a child is likely to act in an 'immature' fashion. Regression, a 'retreat' to a less mature style of functioning and behavior, is commonly observed in all of us when we are physically ill, sleep-deprived, hungry, fatigued or threatened. As we 'regress', in response to the real or perceived threat, our behaviors are mediated (primarily) by less-complex brain areas. If a child has been raised in an environment of persisting threat, the child will have an altered baseline such that the internal state of calm is rarely obtained (or only artificially obtained via EtOH or drugs). In addition, the traumatized child will have a 'sensitized' alarm response, over-reading verbal and non-verbal cues as threatening. This increased reactivity will result in dramatic changes in behavior in the face of seemingly minor provocative cues. All too often, this over-reading of threat will lead to a 'fight' or 'flight' reaction -- and impulsive violence. The child will view their violent actions as defensive.

persistence of a state of fear, literally, a persisting 'fight or flight' state which these adolescents are unable to get out of. The persistence of this originally adaptive internal state is due to growing up in a persistently threatening environment (Perry, 1994; Perry, 1996).

## NEURODEVELOPMENT AND THE THREAT RESPONSE

A growing body of evidence suggests that the developing brain organizes in response to the pattern, intensity and nature of sensory perceptual and affective experience of events during childhood (see Perry, 1993; 1994; Perry et al., 1995; Perry, 1998; 1999). Mediated by neurotransmitters and hormones, the stress responses can affect the development of the brain by altering neurogenesis, migration, synaptogenesis, and neurochemical differentiation (Lauder, 1988; for review Perry, 1994). Indeed, the developing brain is exquisitely sensitive to stress. For example, rats exposed to perinatal handling stress show major alterations in their stress response later in life (Plotsky and Meany, 1993). Such studies suggest that early exposure to consistent, daily stress can result in more adaptive later behavior and resiliency, while exposure to unpredictable stress can result in deficits. Predictability and control can make events much less destructive or traumatic.



**Figure 2:** Children exposed to significant threat will “re-set” their baseline state of arousal such that even at baseline -- when no external threats or demands are present, they will be in a physiological state of persisting alarm (top curve: Vulnerable). As external stressors are introduced (e.g., a complicated task at school, a disagreement with a peer) the traumatized child will be more ‘reactive’ -- moving into a state of fear or terror in the presence of even minor stressors. The cognition and behavior of the child will reflect their state of arousal (see Figures 1, 3 and 4). This increased baseline level of arousal and increased reactivity in response to a perceived threat plays a major role in the associated behavioral and cognitive problems associated with traumatized children.

The human brain changes in a ‘use-dependent’ fashion (for review see Perry et al., 1995). Neural systems that are activated change in permanent ways, creating ‘internal’ representations -- literally, memories. The brain makes cognitive memories, emotional memories, motor-vestibular memories and state memories. The physiological hyperarousal state associated with fear and pervasive threat results in a brain that has created all of these memory types (i.e., cognitive, motor, emotional, state) and in doing so has adapted to a world characterized by unpredictability and danger. The brains of traumatized children develop to be hypervigilant and focused on non-verbal cues, potentially related to threat.

These children are in a persisting state of arousal and, therefore, experience persisting anxiety.

If during development, the threat response apparatus is required to be persistently active, a commensurate stress response apparatus in the central nervous system will develop in response to constant threat. These stress-response neural systems (and all functions they mediate) will be overactive and hypersensitive. It is highly adaptive for a child growing up in a violent, chaotic environment to be hypersensitive to external stimuli, to be hypervigilant, and to be in a persistent stress-response state. While these adaptive changes in the brain make a child better suited to sense, perceive and act on threat in their world these "survival tactics" ill-serve the child when the environment changes (e.g., in school, peer relationships: see Figs. 3 and 4).

<i>Hyperarousal Continuum</i>	REST	VIGILANCE	RESISTANCE Crying	DEFIANCE Tantrums	AGGRESSION
<i>Dissociative Continuum</i>	REST	AVOIDANCE	COMPLIANCE Robotic/detached	DISSOCIATION Fetal Rocking	FAINTING
<i>Regulating Brain Region</i>	NEOCORTEX Cortex	CORTEX Limbic	LIMBIC Midbrain	MIDBRAIN Brainstem	BRAINSTEM Autonomic
<i>Cognitive Style</i>	ABSTRACT	CONCRETE	EMOTIONAL	REACTIVE	REFLEXIVE
<i>Internal State</i>	CALM	AROUSAL	ALARM	FEAR	TERROR

**Figure 3:** *Different children have different styles of adaptation to threat. Some children use a primary hyperarousal response some a primary dissociative response. Most use some combination of these two adaptive styles. In the fearful child, a defiant stance is often seen. This is typically interpreted as a willful and controlling child. Rather than understanding the behavior as related to fear, adults often respond to the 'oppositional' behavior by becoming more angry, more demanding. The child, over-reading the non-verbal cues of the frustrated and angry adult, feels more threatened and moves from alarm to fear to terror. These children may end up in a very primitive "mini-psychotic" regression or in a very combative state. The behavior of the child reflects their attempts to adapt and respond to a perceived (or misperceived) threat.*

These children are characterized by persisting physiological hyperarousal and hyperactivity (Perry, 1995a; Perry, et al., 1995). They are observed to have increased muscle tone, frequently a low grade increase in temperature, an increased startle response, profound sleep disturbances, affect regulation problems and generalized (or specific) anxiety (Kaufman, 1991; Ornitz et al., 1989; Perry, 1994a). In addition, our studies indicate that a significant portion of these children have abnormalities in cardiovascular regulation (Perry, 1994a; Perry et al., 1995b). Using continuous heart rate monitoring during clinical interviews, male, pre-adolescent children exposed to violence exhibited a mild tachycardia during non-intrusive interview and a marked tachycardia during interviews about specific

exposure to trauma (n = 83; resting heart rate = 104; interview heart rate = 122). In comparison, females exposed to traumatic events tended to have normal or mild tachycardia that, during interviews about the traumatic event decreased (n =24; resting heart rate = 98; interview heart rate = 82). This gender difference was associated by differences in emotional and behavioral symptoms, with males exhibiting more 'externalizing' and females more 'internalizing' symptoms (Perry, et al., 1995b; Perry and Pollard, 1998).

The implications of this for the violent youth are profound. First, any child in the vortex of violence will develop a persisting fear-response. There are marked gender differences in this response (Perry et al., 1995b; Perry, Pollard, Blakley, Baker, & Vigilante, 1995). Females are more likely to dissociate and males more likely to display a classic "fight or flight" response. As a result, more males will develop the aggressive, impulsive, reactive and hyperactive symptom presentation. Males will more likely be violent outside the home and with women (George et al., 1979). This can be explained, in part, by the persistence of this "fight or flight" state -- and by the profound cognitive distortions that accompany this neurodevelopmental state. A young man with these characteristics, then, will very easily misinterpret a behavior as threatening and will, being more reactive, respond in a more impulsive and violent fashion. Literally, using the original (childhood) adaptive "fight or flight" response in a new context but, now, later in life, in a maladaptive fashion.

In turn, the battered and overwhelmed woman will be more violent and abusive to her children. Women are more violent to children in the home than men. This may be due to the fact that men are often not in the home. It is also likely that when the direct object of their rage and violence can be the mother, it will be. If an older, typically male, child tries to defend the mother, the abusive paramour will be physically abusive to that child. But on the whole, the traumatized, unsupported and frustrated mother is more likely to be the perpetrator of emotional and physical abuse to children in the home.

## STATE-DEPENDENT STORAGE AND RECALL OF EXPERIENCE

There are profound clinical implications of the persisting arousal states in children. These children will have impaired capacities to benefit from social, emotional and cognitive experiences. This is explained by three key principles of brain functioning: 1) the brain changes in response to experience in a 'use-dependent' fashion; 2) the brain internalizes and stores information from any experience in a 'state-dependent' fashion and 3) the brain retrieves stored information in a state-dependent fashion.

As described above, the brain changes in a use-dependent fashion. All parts of the brain can modify their functioning in response to specific patterns of activation -- or to chronic activation. These use-dependent changes in the brain result in changes in cognition (this, of course, is the basis for cognitive learning), emotional functioning (social learning), motor-vestibular functioning (e.g., the ability to write, type, ride a bike) and state-regulation capacity (e.g., resting heart rate). No part of the brain can change without being activated -- you can't teach someone French while they are asleep or teach a child to ride a bike by talking with them.

Mismatch between modality of teaching and the 'receptive' portions of a specific child's brain occur frequently. This is particularly true when considering the learning

experiences of the traumatized child -- sitting in a classroom in a persisting state of arousal and anxiety -- or dissociated. In either case, essentially unavailable to process efficiently the complex cognitive information being conveyed by the teacher. This principle, of course, extends to other kinds of 'learning' -- social and emotional. The traumatized child frequently has significant impairment in social and emotional functioning. These capabilities develop in response to experience -- experiences that these children often lack -- or fail at. Indeed, hypervigilant children frequently develop remarkable non-verbal skills in proportion to their verbal skills (street smarts). Indeed, often they over-read (misinterpret) non-verbal cues -- eye contact means threat, a friendly touch is interpreted as an antecedent to seduction and rape -- accurate in the world they came from but now, hopefully, out of context. During development, these children spent so much time in a low-level state of fear (mediated by brainstem and midbrain areas) that they were focusing consistently on non-verbal cues. In our clinic population, children raised in chronically traumatic environments demonstrate a prominent V-P split on IQ testing (n = 108; WISC Verbal = 8.2; WISC Performance = 10.4, Perry, in preparation).

This is consistent with the clinical observations of teachers that these children are really smart but can't learn easily. Often these children are labeled as learning disabled. These difficulties with cognitive organization contribute to a more primitive, less mature style of problem solving -- with violence often being employed as a "tool."

This principle is critically important in understanding why a traumatized child -- in a persisting state of arousal -- can sit in a classroom and not learn. The brain of this child has different areas activated -- different parts of the brain 'controlling' his functioning. The capacity to internalize new verbal cognitive information depends upon having portions of the frontal and related cortical areas being activated -- which, in turn, requires a state of attentive calm. A state the traumatized child rarely achieves.

Children in a state of fear retrieve information from the world differently than children that feel calm (see Figures 1, 3 and 4). We all are familiar with 'test' anxiety. Imagine what life would be like if all experiences invoked the persisting emotion of anxiety. If a child has information stored in cortical areas but in the specific moment is very fearful, this information is inaccessible. In this regard, cognitively stored information does little good in the life-threatening moment. Simple didactic conflict-resolution models are doomed to fail unless they involve elements of role-playing. Imagine how much you would trust an Army that went through combat training by sitting in classroom -- or the E.R. physician about to run her first code after only learning how to do that by reading a book. In the midst of most threatening experiences -- situations where violence often takes place -- the 'problem-solving' information in the cortex is not easily accessed. It is of interest to note that information learned in song, rhyme or rap is more easily recalled when in a state of high arousal. This is due, of course, to the fact that this information is stored in a different fashion than traditional verbal cognitive information.

<b>Sense of Time</b>	<b>Extended Future</b>	<b>Days Hours</b>	<b>Hours Minutes</b>	<b>Minutes Seconds</b>	<b>Loss of Sense of Time</b>
<b>Primary secondary Brain Areas</b>	<b>NEOCORTEX Subcortex</b>	<b>SUBCORTEX Limbic</b>	<b>LIMBIC Midbrain</b>	<b>MIDBRAIN Brainstem</b>	<b>BRAINSTEM Autonomic</b>
<b>Cognition</b>	<b>Abstract</b>	<b>Concrete</b>	<b>Emotional</b>	<b>Reactive</b>	<b>Reflex</b>
<b>Mental State</b>	<b>CALM</b>	<b>AROUSAL</b>	<b>ALARM</b>	<b>FEAR</b>	<b>TERROR</b>
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**Figure 4:** One of the most important elements of understanding the child living in the Vortex of Violence, is that all humans process, store, retrieve and respond to the world in a state-dependent fashion. When a child is in a persisting state of arousal due to persisting exposure to threat, the primary areas of the brain that are processing information are different from those in a child who can be calm. The calm child may sit in the same classroom next to the child in an alarm state, both hearing the same lecture by the teacher. Even if they have identical IQs, the child that is calm can focus on the words of the teacher and, using neocortex, engage in abstract cognition. The child in an alarm state will be less efficient at processing and storing the verbal information the teacher is providing. This child’s cognition will be dominated by sub-cortical and limbic areas, focusing on non-verbal information (e.g., the teacher’s facial expressions, hand gestures, when she seems distracted). And, because the brain internalizes (i.e., learns) in a ‘use-dependent’ fashion, this child will have more selective development of non-verbal cognitive capacities. The children raised in the vortex of violence have learned that non-verbal information is more important than verbal -- “when daddy smells like beer and walks funny, I know he will hurt mommy.”

As a child moves along the continuum of arousal, the part of the brain that is ‘orchestrating’ functioning shifts. This process reflects ontogeny, such that the more distressed one is, the more primitive are the brain areas responsible. An important reflection of this is how the sense of time is altered in alarm states. Sense of future is foreshortened. The critical time period for the individual shrinks. The threatened child is not thinking (nor should she think) about months from now. This has profound implications for understanding the cognition of the traumatized child. Immediate reward is most reinforcing. Delayed gratification is impossible. Consequences of behavior become almost inconceivable to the threatened child. Reflection on behavior -- including violent behavior -- is impossible for the child in an alarm state. Cut adrift from internal regulating capabilities of the cortex, the brainstem acts reflexively, impulsively, and aggressively -- to any perceived threat. Eye contact for too long becomes a life-threatening signal. Wearing the wrong colors-- a hand gesture -- cues that to the calm adult reading about another ‘senseless’ murder in the paper are insignificant but to the hypervigilant, armed adolescent born and raised in the vortex of violence, enough to trigger a ‘kill or be killed’ response.

## DECREASING THE ALARM STATE: THE CORE OF THERAPEUTICS

How do you begin to help the traumatized child -- the child that has been living in the vortex of violence? The frustrating fact is that whether teacher, caseworker, mental health professional, pediatrician, police officer or any other caring adult, we often are unable to remove a child from the Vortex. We see the impact, we know the home, the community, the peer group, and the gang will stay the same. We know that for '24-7' the child is in settings where we may have no control or impact. This need not be reason for despair -- motivation for outrage and action, yes -- but there is no reason for hopelessness.

An amazing quality of the human brain is to create an image of the future. To make an internalization of a better place, a better way, a better life, a better world. This capacity is called hope. We can give children hope that not all adults are inattentive or abusive or unpredictable or violent. Some of the most influential people in any person's life may be someone they have never even met. They have used that person to create an inner image to aspire to, to idealize, to idolize. Role models, mentors, and heroes -- all can provide critical formative experiences for children.

And what are the qualities that we should introduce into our work to provide the experience for the children that can give them hope and the opportunity for change? The hallmarks of the transforming therapeutic interaction are safety, predictability and nurturance. The most 'therapeutic' interactions often come from people who have no training (or interest) in psychological or psychiatric labels, theories, treatments and the adult expectations of the child that go with these. In interacting with the child, respect, humor and flexibility can allow the child to be valued as what they are.

Clinical principles for effective work with children have additional critical elements. One is helping the child understand what they feel and why they behave a certain way in given situations. Traumatized children frequently act impulsively and misunderstand why this has happened. They will often explain this (as will the adults around them) as the by-product of them being stupid, insensitive, bad, selfish, sick or damaged in some way. The false cognitions of the traumatized child need to be addressed and changed. A second important element of clinical work with traumatized children is educating the adults in the child's world about the ways in which maltreated and traumatized children think, feel and behave. This can lead to understanding rather than rage. If a clinician can make the ten adults in the child's life 5 percent more understanding, they can increase the number of neutral and positive experiences in the child's life ten fold -- and decrease the number of negative experiences dramatically. The resulting impact is much more effective than 45 minutes a week in the clinician's office.

There are many more important specific treatment aspects of working with these children that are beyond the scope of this paper. Yet even with optimal clinical 'techniques', treatment of maltreated children would overwhelm the entire mental health and child welfare community in this country. Today the number of children that would benefit from intervention far outstrips the meager resources our society has dedicated to maltreated children. At the end of the day -- and possibly at the end of our society -- we will have to focus on prevention.

## PREVENTION AND SOLUTION

What we are as adults is the product of the world we experienced as children. The way a society functions is a reflection of the childrearing practices of that society. Today, we reap what we have sown. Despite the well-documented critical nature of early life experiences, we dedicate few resources to this time of life. We do not educate our children about development, parenting or about the impact of neglect and trauma on children. As a society we put more value on requiring hours of formal training to drive a car than we do on any formal training in childrearing.

In order to prevent the development of impulsive, predatory or violent children, we need to dedicate resources of time, energy and money to the complex problems related to child maltreatment. We need to understand the indelible relationship between early life experiences and cognitive, social, emotional, and physical health. Providing enriching cognitive, emotional, social and physical experiences in childhood could transform our culture. But before our society can choose to provide these experiences, it must be educated about what we now know regarding child development. Education of the public must be coupled with the continuing generation of data regarding both the impact of positive and negative experiences on the development of children. All of this must be paired with the implementation and testing of programs dedicated to enrich the lives of children and families and programs to provide early identification of, and proactive intervention for, at-risk children and families.

The problems related to maltreatment of children are complex and they have complex impact on our society. Yet there are solutions to these problems. The choice to find solutions is up to us. If we choose, we have some control of our future. If we, as a society, continue to ignore the laws of biology, and the inevitable neurodevelopmental consequences of our current childrearing practices and policies, our potential as a humane society will remain unrealized. The future will hold sociocultural devolution -- the inevitable consequence of the competition for limited resources and the implementation of reactive, one-dimensional and short-term solutions.

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## RESOURCES

There are many other places to learn more about violence and children. A few starting places are listed below.

### ORGANIZATIONS AND PROGRAMS

#### **Office of Juvenile Justice and Delinquency Prevention (OJJDP), Department of Justice**

The OJJDP is the division of the Justice Department dedicated to the shaping and enacting federal policy regarding the areas of juvenile justice. As it carries out this mission, the OJJDP works with states and other non-government agencies and organizations to develop programs to prevent and control juvenile delinquency. The OJJDP website has a wealth of information regarding the prevalence of problems as well as the documentation of promising intervention programs. OJJDP has been a primary sponsor of the successful home-visitation models, the Safe Kids/Safe Streets project, Safe Start programs and the community policing initiatives taking place in many communities.

OJJDP  
810 Seventh Street, NW,  
Washington, DC 20531  
Phone: (202) 307-5911  
Fax: (202) 307-2093  
E-mail: [askjj@ojp.usdoj.gov](mailto:askjj@ojp.usdoj.gov)  
URL: <http://ojjdp.ncjrs.org>

#### **Parents and Teachers Against Violence in Education: Project NO SPANK.**

This is an advocacy organization that has documented and catalogued materials related to the issue of physical discipline. For any individual or group interested in reading about the research regarding the adverse impact of physical discipline and spanking, this is the site to start with. Remember, this is an advocacy organization; this site will clearly and strongly present their positions.

Project No Spank  
PO Box 1033  
Alamo, CA 94507-7033  
Phone: (925) 831-1661  
Fax: (925) 838-8914  
E-mail: [ptave@silcon.com](mailto:ptave@silcon.com)  
URL: <http://www.nospank.org/toc.htm>

#### **New Haven Child Development-Community Policing Project: (CD-CP)**

This is an innovative program which is a collaborative project of the Yale Child Study Center, the New Haven Police Department, local schools and the Connecticut child protective services. This project is designed to provide the immediate mental health needs of child crime victims and witnesses. By creating special training opportunities, mental health providers and police officers share expertise and address the complex needs of children exposed to violence. This is an effective and unique program. The OJJDP is helping other communities create similar innovative collaboratives.

CD-CP Program

Suite 212  
47 College Street  
New Haven, CT 06510  
Phone: (203) 785-3377

### **Family Violence Research Laboratory of University of New Hampshire**

This organization is a pioneer in conducting research and education in the area of domestic violence and violence in childhood. Since 1975, the Family Research Laboratory (FRL) has devoted itself primarily to understanding family violence and the impact of violence in families. This organization and its website are a highly recommended resource for quality research, reviews and thoughtful policy and practice recommendations.

As public and professional interest in family violence has grown, so has the need for more reliable knowledge. The FRL has tried to fill that need in a variety of ways: through comprehensive literature reviews, new theories, and methodologically sound studies. Researchers at the FRL pioneered many of the techniques that have enabled social scientists to estimate directly the scope of family violence. These efforts have brought international recognition to the FRL.

Family Research Laboratory  
126 Horton Social Science Center  
Durham, NH 03824-1888  
Tel. 603-862-1888  
Fax 603-862-1122  
URL: <http://www.unh.edu/frl>  
E-mail: [mas2@christa.unh.edu](mailto:mas2@christa.unh.edu)

### **BOOKS and Monographs**

*Children in a Violent Society* (J.D. Osofsky, Ed.) The Guilford Press, New York (1997)

This edited volume is an excellent overview of various important aspects of the complex problems related to children and violence. Among the many contributors are pioneers in this area including Carl Bell, Joy Osofsky, Peter Fonagy, Steve Marans and Bob Pynoos. This is a recommended text for clinicians and academics interested in the effects of violence on children.

*Safe from the Start: Taking Action on Children Exposed to Violence*, The Children Exposed to Violence Summit Action Plan (prepared by W.B. Jacobsen) U.S. Departments of Justice and Human and Health Services, (2000)

This summary monograph is a useful introduction to the scope of problems facing children exposed to violence. This is a "white paper" product of the National Summit on Children Exposed to Violence in 1999. This three day working meeting brought together professionals and experts from a host of organizations and disciplines. The end result was a consensus on several areas of focus and on several principles of problem solving that should play a role in developing effective policy and practice to help children exposed to violence. Like most consensus products, this monograph restates many obvious points. The solutions are not detailed and reflect the interests of the participants. Despite the fact that there are literally thousands of academics, scholars and experts who did not participate in this summit, the end product is none-the-less a useful source of information. Some of the most useful elements of this monograph is a list of programs across the country that have been successful in addressing some aspect of children exposed to violence.

These resources will be periodically updated and posted in a special section of the ChildTrauma Academy web site <http://www.ChildTrauma.org>. Visit this site for updates and for other resource materials about traumatic events and children.

## *About the Author*

*Bruce D. Perry, M.D., Ph.D.*

Dr. Perry is the Senior Fellow of the ChildTrauma Academy. Dr. Perry served as the Thomas S. Trammell Research Professor of Child Psychiatry at Baylor College of Medicine and Chief of Psychiatry at Texas Children's Hospital in Houston, Texas from 1992 to 2001. In addition he has served as the Director of Provincial Programs in Children's Mental Health for Alberta, Canada, and is the author of more than 200 scientific articles and chapters. He is the recipient of dozens of awards and honors and is an internationally recognized authority in the area of child maltreatment and the impact of trauma and neglect on the developing brain.

## *The ChildTrauma Academy*

The ChildTrauma Academy, a not-for-profit organization based in Houston, TX, is a unique collaborative of individuals and organizations working to improve the lives of high-risk children through direct service, research and education. These efforts are in partnership with the public and private systems that are mandated to protect, heal and educate children.

The mission of the ChildTrauma Academy is to foster the creation of innovations in practice, programs and policy related to traumatized and maltreated children. To support this mission, the Academy has two main activities; 1) Program development and consultation and 2) Specialized education and training services.

*For more information or to direct donations:*

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Director, ChildTrauma Academy  
[jlrcata@aol.com](mailto:jlrcata@aol.com)

*Web Resources:*

ChildTrauma Web site  
[www.ChildTrauma.org](http://www.ChildTrauma.org)

5161 San Felipe, Suite 320  
ChildTrauma Academy  
Houston, TX 77056

*About the the cover drawing:*

*The Firing Squad.* From of a drawing by a 12 year old Kosovar child witnessing the violence, chaos and destruction of war. Drawings by children exposed to traumatic events frequently include elements from the original trauma and are often re-enactment efforts.

From the collection of Dr. Shoaib (a trainee at the ChildTrauma Academy in 1998) obtained during his work in Kosovar refugee camps in Albania in 1999.



## The ChildTrauma Academy and Linkletter Media Products

**To place your order, please send your check and this order form to:**

**The ChildTrauma Academy  
5161 San Felipe, St. 320  
Houston, Texas 77056**

**Attn.: Jana Rubenstein      Checks payable to "The ChildTrauma Academy"**

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## UNDERSTANDING TRAUMATIZED AND MALTREATED CHILDREN: THE CORE CONCEPTS

“**Understanding Traumatized and Maltreated Children**” is a seven-part series featuring *Bruce D. Perry, M.D., Ph.D.* and hosted by *Art Linkletter*. Comprehensive information is presented by Dr. Perry on the primary problems facing maltreated children and dynamic approaches for effective care giving for professionals and lay people alike.

“One of the purposes of this video series is to try and provide some of the baseline information for frontline providers — like teachers, caseworkers, mental health workers, and professionals — so they can better understand these children and really begin to think about how to intervene in different ways. There is presently a real lack of useful and easy to understand information about this. We recognize that and that is what we’re trying to respond to in this series...*We tend to pay more attention to information that reinforces our beliefs, than to information that challenges our beliefs.*” — *Dr. Perry*

**#1 Program CHALLENGING OUR BELIEFS (#1-01)** In this introductory program to the series, Dr. Perry and Art Linkletter challenge us to evaluate existing childcare systems, and urge us to consider their effectiveness. Opportunities for change include better communication, corporate workplace involvement, community involvement, and increasing a maltreated child’s opportunities for affiliation to promote healing and hope. “Challenging Our Beliefs” is also an excellent stand alone program for both lay people and professionals.

**#2 Program THE AMAZING HUMAN BRAIN (#1-02)** Dr. Perry covers the basics of brain anatomy and function. An understanding of the hierarchical make-up of the human brain helps caregivers and professionals to better diagnose children’s problems and formulate effective treatment approaches. Adverse affects caused by neglect, fear, trauma, and violence are presented.

**#3 Program HOW THE BRAIN DEVELOPS: THE IMPORTANCE OF EARLY CHILDHOOD (#1-03)** Dr. Perry stresses the importance of bonding and attachment as the cornerstones of early childhood optimal brain development. Caregivers and professionals learn the various behaviors and problems of children who missed these early opportunities, and presents examples to help in recognition and appropriate treatment paths.

**#4 Program NEGLECT: HOW POVERTY OF EXPERIENCE DISRUPTS DEVELOPMENT (#1-04)** Severe neglect and even simple missed care giving opportunities cause various degrees of brain effects and behavior problems in maltreated children. An absence of stimulation and chaotic stimulation are both responsible for promoting an absence of experience that contributes to disruptive childhood development. Dr. Perry presents new and dynamic information on this often ignored subject.

**#5 Program THE FEAR RESPONSE: THE IMPACT OF CHILDHOOD TRAUMA (#1-05)** Caregivers learn to effectively recognize the behaviors and physical reactions of children in the various stages of “the fear response.” This is particularly helpful for caregivers and professionals in assessment, treatment, and intervention to determine the degree of trauma, and Post-Traumatic Stress Syndrome, in children.

**#6 Program LIVING AND WORKING WITH TRAUMATIZED CHILDREN (#1-06)** Dr. Perry presents in-depth information and effective skills for those who are “on the front lines” of care giving for traumatized and maltreated children. Recording a child’s progress, identifying strengths and weaknesses, and respite care for caregivers all help to promote effective and optimal opportunities for a healing environment.

**#7 Program VIOLENCE AND CHILDHOOD (#1-07)** Children today are bombarded with violence: violence in the media, gang violence, domestic violence, abuse, and school violence. Dr. Perry presents information concerning how insufficient brain Cortex modulation and primitive Brain Stem impulsivity can lead to acts of violence. Dr. Perry concludes: “*It’s a really unique form of heroism that is most often unrecognized. There are a lot more people than you might expect who are walking around that are very heroic just in being ‘good people’ — considering what they’ve gone through.*”

## THE SIX CORE STRENGTHS FOR HEALTHY CHILDHOOD DEVELOPMENT

**#1 Program DEVELOPING POTENTIAL (#2-01)** In this introductory tape, Dr. Perry discusses the core strengths that provide a child with the framework for a life rich in family, friends, and personal growth. Teaching children these core strengths gives them a gift they will use throughout their lifetimes. They will learn to live and prosper together with people of all kinds—each bringing different strengths to create a greater whole.

**#2 Program ATTACHMENT (#2-02) The template for future relationships** Attachment is the capacity to form and maintain healthy emotional bonds with another person. It is first acquired in infancy, as a child interacts with loving, responsive, and attentive parents and caregivers. This core strength is the cornerstone of all the others. Healthy attachments allow a child to love, to become a good friend, and to have a positive and useful model for future relationships. As a child grows, other consistent and nurturing adults such as teachers, family friends, and relatives will shape his ability to develop attachments. The attached child will be a better friend, student, and classmate—which promotes all forms of learning.

**#3 Program SELF-REGULATION (#2-03) The capacity to regulate internally** Developing and maintaining the ability to notice and control primary urges such as hunger and sleep—as well as feelings of frustration, anger, and fear—is a lifelong process. Its roots begin with the external regulation provided by parents or significant caregivers, and its healthy growth depends on a child's experience and the maturation of the brain. Pausing a moment between an impulse and an action is a life tool. Developing this strength helps a child physiologically and emotionally. But it's a strength that must be learned—we are not born with it.

**#4 Program AFFILIATION (#2-04) Joining In** The capacity to join others and contribute to a group springs from our ability to form attachments. Affiliation is the glue for healthy human functioning. It allows us to form and maintain relationships with others and to create something stronger, more adaptive, and more creative than the individual. Human beings are biologically designed to live, play, grow, and work in groups. The family is a child's first and most important group. But most other groups that children join are based on circumstance or common interests. It's in these groups that children will have thousands of brief emotional, social, and cognitive experiences that can help shape their development.

**#5 Program ATTUNEMENT (#2-05) Thinking of Others** Awareness is the ability to recognize the needs, interests, strengths, and values of others. Infants begin life self-absorbed and slowly develop awareness - the ability to see beyond themselves and to sense and categorize the other people in their world. An aware child learns about the needs and complexities of others by watching, listening, and forming relationships with a variety of children. He becomes part of a group and sees ways in which we are all alike and different. With experience, a child can learn to reject labels used to categorize people, such as skin color or the language they speak.

**#6 Program TOLERANCE (#2-06) Accepting Differences** Tolerance is the capacity to understand and accept how others are different from you. This core strength builds upon another - awareness (once aware, what do you do with the differences you observe?). It's natural and human to be afraid of what's new and different. To become tolerant, a child must first face the fear of differences. This can be a challenge because children tend to affiliate based on similarities—in age, interests, families, or cultures. But they also learn to reach out and be more sensitive to others by watching how the adults in their lives relate to one another. With positive modeling, caregivers can insure and build on children's tolerance. The tolerant child is more flexible and adaptive in many ways. Most important, when a child learns to accept difference in others, he becomes able to value the things that make each of us special and unique.

**#7 Program RESPECT (#2-07) Respecting yourself and others** Appreciating your own self-worth and the value of others grows from the foundation of the preceding five strengths. An aware, tolerant child with good affiliation, attachment, and self-regulation strengths gains respect naturally. The development of respect is a lifelong process, yet its roots are in early childhood. Children will belong to many groups, meet many kinds of people, and will need to be able to listen, negotiate, compromise, and cooperate. Having respect enables a child to accept others and to see the value in diversity. He can see that every group needs many styles and many strengths to succeed and he can value each person in the group for her talents. When children respect—and even celebrate—diversity, they find the world to be a more interesting, complex, and safer place.