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Abstract

Professionals misdiagnose autism by ticking off symptoms on a checklist without questioning the causes of said symptoms, and without understanding the innate neurophysiology of the autistic brain. A dysfunctional cingulate gyrus (CG) hyperfocuses attention in the left frontal lobe (logical/analytical) with no ability to access the right frontal lobe (emotional/creative), which plays a central role in spontaneity, social behavior, and nonverbal abilities. Autistic people live in a specialized inner space that is entirely intellectual, free from emotional and social distractions. They have no innate biological way of emotionally connecting with other people. Autistic people process their emotions intellectually, a process that can take 24 hours, by which time it is too late to have felt anything. An inactive amygdala makes it impossible for autistic people to experience fear. Because they do not feel emotion, they have no emotional memories. All memories are of events that happened about which they felt no emotion at the time and feel no emotion when talking about it afterward.

Keywords: Autism, Asperger, Asd, Neuropsychology, Neuroscience

Introduction

Definition

Autism is perpetual and unrelenting hyperfocus, the state of intense single-minded concentration fixated on one thing at a time to the exclusion of everything else, including one's own emotions. The probable cause of hyperfocus is a dysfunctional cingulate gyrus (CG), that part of the brain which focuses attention [1].

Description

Autism is an inherent neurophysiological difference in how the brain processes information. Autistic people live in a specialized inner space that is entirely intellectual, free from emotional and social distractions. They observe the world in detail without feeling any emotional attachment to what they see [1]. Autism is a neurophysiological idiosyncrasy. The only thing different about an autistic brain is the specialized way in which it processes information. As such, autism does not fit the medical definition of disorder (i.e., pathological or diseased condition of mind or body). Michelangelo, Mozart, Paganini, Newton, Darwin,

Jefferson, Edison, Tesla, and Einstein were autistic and obviously not suffering from any mental pathology [2] Figure 1.

Table 1 In a neurotypical brain, the cingulate gyrus (CG) acts like an automatic transmission that seamlessly switches attention back and forth between frontal lobes, as needed. In autism, a dysfunctional CG keeps the person's attention trapped in the left frontal lobe (logical/analytical)- with no ability to access the right frontal lobe (emotional/creative), which plays a central role in spontaneity, social behavior, and nonverbal abilities. Some neurotypical people are left-brain dominant whereas others are right brain dominant. Autistic people, however, are left brain exclusive. They speak factually, in a monotone voice, and with an expressionless face [3].

The right frontal lobe, the place where emotions are experienced, is inaccessible to autistic people. The amygdala, the place where emotions are expressed, is inactive in the autistic brain. Autistic children come into the world without innate biologically provided ways of emotionally connecting with other people. In a neurotypical brain, the amygdala processes emotions associated with fear and stores emo-



tional memories. When faced with a dangerous situation, the amygdala sounds an alarm that sets off a chain of events: hormones course through the body, pupils dilate, heartrate increases, and the body experiences a "fight or flight" reaction. In extreme situations, all nervous energy goes to the amygdala, which runs totally on instinct and emotion; and that part of the brain that uses logic shuts down completely. In the autistic brain, none of this happens because the amygdala

is nonfunctional. In every dangerous situation, the autistic person is fully focused on the event itself and is incapable of feeling fear. Because autistic people do not feel emotion, they have no reaction and no emotional memories. All memories are of events that happened about which they felt no emotion at the time, and about which they feel no emotion when telling someone about it afterward.

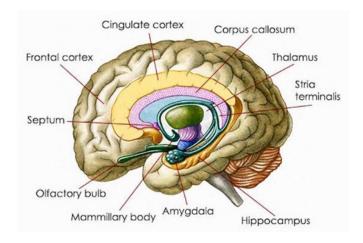


Figure 1: The neurological structure of the autistic brain is the same as for any other brain. What is different about the autistic brain is how it functions with respect to its neurophysiology.

Table 1: Autistic Neurophysiology.

Cingulate Cortex/Gyrus	Dysfunctional	The cingulate gyrus (CG) is that part of the brain which focuses attention. In autism, the CG keeps the person's attention trapped in the left frontal lobe, creating a perpetual state of hyperfocus.
Left Frontal Cortex/Lobe	Dysregulated	In the autistic left frontal lobe, alpha frequencies (8-12Hz) predominate over beta (12.5-30Hz), which is the exact opposite of the neurotypical brain. Higher alpha frequencies in the left brain appear to be compensating for the inability to access creativity and intuition from the right brain.
Right Frontal Cortex/Lobe	Inaccessible	There is normal brainwave activity in the right frontal lobe, with alpha frequencies predominating over beta. However, neural networks may be underdeveloped. The autistic person is completely unaware of anything that happens in his/her right frontal lobe, the place where emotions and social connectivity are experienced by neurotypical people.
Amygdala	Inactive	The amygdala plays a central role in the expressing of emotions, especially fear. A dysfunctional CG prevents the autistic person from feeling any emotion, with the result that the amygdala is non-functional. An autistic person never experiences fear.

Autistic people lack an emotional guidance system. They process their emotions intellectually, which process can take 24 hours, by which time it is too late to have felt anything. Physiological anxiety acts as a safety net to warn of any unprocessed emotion. Identifying and naming the emotion in question instantly relieves the anxiety. Hyperfocus also causes various kinds of sensory overload. A sudden

loud or high-pitched noise switches hyperfocus to the noise, which the autistic person then experiences with many times the intensity than does a neurotypical person. Seeing too many words on a page may cause cognitive impairment whereby the autistic person's mind goes disturbingly blank. Too many products on shelves and overhearing unwanted conversations in stores may trigger anxiety. Lighting dis-



plays can trigger intense anxiety. For some, hyperfocus exaggerates the sense of touch, making close fitting clothing irritating and hugs unbearable.

Autistic Fearlessness

Autistic people have no involuntary fear response. Innate fearlessness makes autistic children oblivious to danger. In life-threatening situations, the autistic adult is fully focused on the event itself and incapable of feeling fear or even nervousness in that moment. She or he feels a mildly heightened sense of awareness while coldly calculating risks and mitigating factors that quickly form an immediate plan of action. The author of this article is autistic and in his entire life, including 17 years of experience in martial arts, has never once felt fear of any kind [1]. He has never had a fight-or-flight reaction and has no awareness of how that could feel. Sometimes autistic people may intellectualize about fear, for example saying that after thinking about such-and-such decided it could be a scary thing. However, they are incapable of experiencing any actual fear. If you encounter someone who has never felt fear, this person is most probably locked into autistic hyperfocus [1].

Litmus Test

Hyperfocus is the unique and defining causal state of autism that creates all of its observed characteristics. Hyperfocus prevents someone from dividing attention between two thought patterns or two stimuli at the same time. An autistic person talking to you is incapable of feeling any emotion in that moment. The surest way to find out if someone is autistic is to ask these five questions, to which you will receive the following responses [1].

Table 2: 50 Autistic Traits Caused by Hyperfocus.

1.	How often do you cry?	"never" or "rarely"
2.	How often do you laugh?	"never" or "rarely"
3.	What are you afraid of?	" <i>nothing</i> " or an intellectual answer
4.	What are you feeling now?	"nothing" or an intellectual answer
5.	Do you ever get bored?	"never"

Example of an intellectual answer: "No, I'm not angry. That wouldn't be logical."

Anyone who answers all five questions as above is autistic. Anyone who answers four or fewer as above is not autistic.

50 Autistic Traits Have a Single Cause

Hyperfocus is the unique and defining characteristic of autism that is responsible for all 50 of its observed traits listed below. Hyperfocus is the perpetual and unrelenting state of intense single-minded concentration fixated on one thought pattern at a time, to the exclusion of everything else. All 50 of these traits are caused by the inability to run two mental programs simultaneously [1] Table 2.

	Intense single-mindedness	
Mental Traits	• Trapped in thoughts, mind always busy	
	Tends to overthink everything	
	Passionately pursues interests, often to extremes	
	Amasses encyclopedic knowledge about areas of interest	
	Self-awareness but no social awareness	
	Interruptions trigger agitation, confusion, or anxiety	
	• Cannot multitask	
Sensory Overload	Hypersensitive to loud noises and bright lights	
	Sensory assaults can trigger physiological anxiety	
	Overwhelmed from hearing unwanted conversations	
	Overwhelmed by too much information	
	Sensory overload makes it impossible to think or focus	
	Difficulty listening to radio or talking with others while driving	

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	Biologically incapable of feeling emotion		
	Incapable of emotionally reacting to anything		
	Processes emotions intellectually		
Emotional Traits	May have physiological responses instead of emotions		
	Anxiety bypasses the intellect to warn of unprocessed emotions		
	Incapable of experiencing fear		
	Can be angry without knowing so		
	Never (or rarely) cries or laughs		
	Cannot nurture self psychologically		
	Shrinks from emotional displays by others		
	Unable to defend against emotional attacks		
	Considers self to be an outsider		
	Lacks innate ability to socialize		
Social Traits	Unaware of feelings and needs of others		
	Oblivious to how perceived by others		
	Unaware of socially appropriate responses		
	Cannot pick up on subtleties, unable to take hints		
	Interested only in information		
	Content of conversation important, context irrelevant		
	Speaks factually, without emotion		
In Commention	Takes everything literally		
In Conversation	Easier to monologue than dialogue		
	Misinterprets sarcasm		
	Misses social cues and nonverbal communication		
	Participating in 3-way conversations may be overwhelming		
	May have difficulty following topic changes		
	Understands love intellectually but cannot feel love		
In Relationships	May understand empathy but unable to feel it		
	Cannot be emotionally available to others		
	Others cannot provide an emotional safety net		
	Drawn more strongly to certain things than to people		
	Innate forthrightness tends to scare others		
Temperament	Never bored, always engaged in mental activity		
	Consistent to daily routines, agitated if routine is disturbed		
	Spontaneity not possible; activities must be pre-planned		
	Cannot lie spontaneously; can tell only premeditated lies		
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Therapy is Harmful

You cannot fix that which is not broken. The autistic brain works in a precise way that cannot be altered [2]. Therapy cannot change neurophysiology. Applied behavioral analysis (ABA) therapy uses positive reinforcement to help autistic children learn behaviors that are deemed desirable. Reinforcement involves rewarding desired behaviors while discouraging undesirable behaviors [3]. There is a vocal community of adults with autism (many of whom had ABA as children) who say that ABA damages mental health and treats them as though they are a problem to be fixed. There is also a higher incidence of PTSD in autistic children who are exposed to ABA.

ABA therapy ignores the child's emotional well-being and quality of life. It assumes that children simply won't do things and need to be in-

centivized to do them through rewards or lack of rewards. Therapists are unaware that autistic children cannot do what they are being asked to do, or that what they are being asked to do is painful. ABA therapy rewards autistic children to hide their pain and distress [4].

There are increased symptoms of PTSD in children exposed to ABA therapy [5]. After repeated cycles in the classroom, autistic children begin to develop PTSD because the program focuses on behavior and compliance, and not what the children are communicating with their behavior [6].

ABA is based on the cruel premise of trying to make autistic people "normal". Its message is that autistic ways of doing things are wrong and need to be corrected, and that the autistic child is broken and must be molded to be more palatable to non-autistic people. This mistaken belief is destructive of the child's identity and self-worth [7].



ABA teaches autistic people that their needs are less important than pleasing others. This makes autistic children overly compliant, leaving them vulnerable to manipulation and abuse. These children need to be taught how to express and get their needs met, not to be taught that their needs are less valid than the needs of people around them [2].

Differential Diagnosis

Differential diagnosis is distinguishing a specific condition from others that may have similar clinical features. The neurophysiological differences between autism and conditions for which it is mistaken are profound [8]. Both attention deficit hyperactivity disorder (ADHD)

 Table 3: Comparative Neuropsychology.

and obsessive-compulsive disorder (OCD) share a common trait, *fickle focus*, which is defined as intervals of intense mental fixation interspersed with episodes of distraction or impulsiveness. Fickle focus can look like hyperfocus that comes and goes; however, true hyperfocus is perpetual and unrelenting. Autistic people never get any relief from hyperfocus [2]. Because of the confusion between fickle focus and hyperfocus, many people with ADHD or OCD are misdiagnosed as being on the alleged autism spectrum. Also, some who are truly autistic are given false multiple diagnoses that include either ADHD or OCD or both. Autism is entirely neurophysiological in origin. ADHD and OCD result from neurochemical imbalance. ADHD is caused by low dopamine [9]. OCD is caused by low serotonin [10] Table 3.

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	Autism	ADHD	OCD
Hyperfocus	Hyperfocus ¹	Fickle focus ²	Fickle focus ²
Cingulate Gyrus	Dysfunctional	Functional	Functional
Amygdala	Inactive	Active	Active
Left Frontal Lobe	High alpha activity.	High beta activity.	High beta activity.
Neurochemistry	n/a	Low dopamine	Low serotonin
Concentration	Intense	Intense	Intense
Distraction	Never distracted.	Sometimes distracted.	Self-distracts.
Multitasking	Unable to multitask.	May multitask.	Unable to multitask.
Emotional Aspects	Incapable of feeling emotion. Processes emotions intellectually.	Can trigger intense emo- tions.	Compulsive behaviors may be attempts to alleviate emotional distress.
Social Aspects	Unable to understand and respond to emotional needs of others.	Poor social skills.	Social anxiety.

¹Hyperfocus is perpetual attention fixated on one thought pattern at a time, to the exclusion of all else.

Autism versus ADHD

Autism and ADHD are mutually exclusive. You can have one or the other, but not both. People with ADHD tend to be highly emotional. Autistic people are incapable of feeling emotion.

Intellectual Guidance System

Autistic people have no innate biologically provided way of experiencing emotions. What they have instead is an intellectual guidance system. They process their emotions intellectually, a process that can take 24 hours, by which time it is too late to have felt anything. Physiological anxiety warns of an unprocessed emotion. Identifying and naming the emotion in question instantly relieves the anxiety [11].

Conclusions

What makes the autistic brain different is its unique neurophysiology (i.e., how it functions). The cingulate gyrus (CG) focuses attention exclusively in the left frontal lobe, creating perpetual and unrelenting hyperfocus, a state of intense single-minded concentration fixated on one thing at a time to the exclusion of everything else, including one's own feelings. Autistic people live in a specialized inner space that is entirely intellectual, free from emotional and social distractions. They observe the world in detail without feeling any emotional attachment to what they see. Autistic children come into the world without innate biologically provided ways of emotionally connecting with other people. Autistic people lack an emotional guidance system. They process their emotions intellectually, a process that can take 24 hours, by which time it is too late to have felt anything. Physiological anxiety warns of an unprocessed emotion. Identifying and naming the emotion in question instantly relieves the anxiety. Because the amygdala is

inactive, autistic people are incapable of experiencing fear. Innate fearlessness makes autistic children oblivious to dangerous or life-threatening situations. In such situations, autistic adults may feel a mildly heightened sense of awareness while coldly calculating risks and mitigating factors.

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²Fickle focus is intervals of intense attention interspersed with episodes of distraction or impulsiveness.