Differential Diagnosis of Autism: A Causal Analysis
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Introduction

A diagnosis without knowing the cause is merely a label that creates the illusion of understanding. Autism is over-diagnosed and now includes a spectrum of conditions of uncertain similarity, primarily because professionals are diagnosing by ticking off symptoms on a checklist with minimal understanding of cause and effect. This study (a) identifies the unique and defining characteristic of autism that is responsible for all its observed traits, (b) maps the neurophysiological differences between an autistic brain and a neurotypical brain, (c) explains the neuropsychological differences between autism and conditions that are often mistaken for it, and (d) provides a litmus test whereby you can know for certain if someone suspected of being autistic has been correctly diagnosed.

Abstract

A diagnosis without knowing the cause is merely a label that creates the illusion of understanding. Autism is over-diagnosed and now includes a spectrum of conditions of uncertain similarity, primarily because professionals are diagnosing by ticking off symptoms on a checklist with minimal understanding of cause and effect. This study (a) identifies the unique and defining characteristic of autism that is responsible for all its observed traits, (b) maps the neurophysiological differences between an autistic brain and a neurotypical brain, (c) explains the neuropsychological differences between autism and conditions that are often mistaken for it, and (d) provides a litmus test whereby you can know for certain if someone suspected of being autistic has been correctly diagnosed.

Keywords: Neuropsychology; Autism; Hyperfocus; Fear; Anxiety

Autistic Traits have a Common Cause

From intimate knowledge of how my own autistic brain operates, plus observation of the behaviors of three autistic family members and six other autistic people, I have compiled a list of 44 traits that all 10 of us have in common (Appendix A: Autistic Hyperfocus). All these traits have a common cause: hyperfocus.

Hyperfocus appears to be the unique and defining characteristic of autism that is responsible for all its observed traits. 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.

Hyperfocus keeps a person trapped in the mental/intellectual part of his mind with no ability to divide his attention between two thoughts (or stimuli), with the consequence that he never gets to feel his emotions. He can only process his emotions intellectually, after the fact. Without the ability to feel emotion, it is impossible to be spontaneous, to be emotionally available, to feel connected to others, or to be aware of how one is perceived. Anthony Hopkins spoke for every autistic person when he is reputed to have said, “My whole life I have felt like an outsider.”

Hyperfocus prevents a person from running two mental programs simultaneously. He takes everything you say literally because he cannot also be questioning how you use words. Similarly, an autistic person cannot also be picking up on subtleties or social cues. He cannot lie spontaneously because that would require dividing his attention between the truth and a falsehood.

Hyperfocus can be so intense that any sudden interruption (e.g. a door opening, an unexpected question, accidentally dropping something) shatters the thought pattern and can be experienced as anywhere from annoying to devastating. Loud noises instantly switch hyperfocus to the noise, which is then experienced with much more intensity than does someone with a neurotypical brain.

Meditation is impossible for someone trapped in hyperfocus because meditation requires letting go of focus. It is also unlikely that an autistic person can be hypnotized. I tried it twice, to no avail. I was unable to divide my attention between the instructions and the experience I was supposed to be having.

Neurophysiology of Autism

The Cingulate Gyrus (CG) is that part of the brain which focuses attention (Appendix B: Cingulate Gyrus). Malfunction of the CG appears to be what causes autistic hyperfocus. The autistic person’s attention is always fixated on mental/intellectual activity in the left frontal cortex, with no ability to switch focus to emotional/creative activity that is simultaneously occurring in the right frontal cortex. To call this left-brain dominance would be an understatement. It is a virtual left-brain exclusivity.

The EEG neurofeedback, I have done on the autistic brain reveals high alpha activity in both frontal lobes. In the neurotypical brain, however, alpha activity (8-12 Hz) is high only in the right frontal cortex, whereas the left frontal cortex reveals high beta activity (12.5–30 Hz). Unusually high alpha activity in the left brain of autistic people appears to substitute for the inability to access creativity from the right brain (Appendix C: Differential Diagnosis).

Neurofeedback also reveals that the amygdala (fear center) in autism is inactive. This is consistent with the observation that autistic people are incapable of experiencing fear.

Autism and Fear

Hyperfocus prevents autistic people from being able to feel emotions as they happen. They can only process their emotions intellectually, a process that can often take 24 hours or so. By the time an emotion has been processed, it is too late to be able to feel it.

Nature has programmed into every human being an automated fear response that warns of perceived threats or impending danger.

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Autistic people are the only ones who are incapable of experiencing this fear response. If you encounter someone who has never felt fear of any kind, this person is most assuredly locked into autistic hyperfocus.

In every risky, dangerous, or life-threatening situation, the autistic person is always hyperfocused on the event itself and is incapable of feeling fear or even nervousness at that moment. In my entire life, including 17 years of experience in martial arts, I have never once felt fear of any kind.

Sometimes autistic people may intellectualize about fear, for example saying that after thinking about such-and-such decided that it could be a scary thing. However, they are incapable of actually feeling fear.

**Autism and Anxiety**

Anxiety is not fear. Anxiety is not a thing unto itself. It is simply a warning signal that bypasses the intellect to warn an autistic person of deep emotions that are struggling to be processed.

Whenever I feel anxiety, I stop, take a deep breath, and figure out which emotion is struggling to be acknowledged. Sometimes this involves deduction or running down a mental checklist. As soon as the emotion is named, the anxiety immediately stops.

**Comparison to ADHD and OCD**

Autism is 100 percent. There are no shades of autism, and the term autistic tendencies make no sense. One is either autistic or he is not. Having autism precludes also having ADHD or OCD.

Both ADHD and 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, but this is impossible because autistic hyperfocus is perpetual and unrelenting. Autistic people never get any relief from their hyperfocus.

Autism appears to be entirely neurophysiological in origin. ADHD and OCD appear to be caused or aggravated by a biochemical imbalance of neurotransmitters. Low dopamine is suspected in ADHD, and low serotonin suspected in OCD (Appendix C: Differential Diagnosis).

**Comparison to PTSD**

In both autism and PTSD, alpha frequencies predominate over beta in the left frontal lobe. In both cases, this phenomenon seems to substitute for being unable to access alpha frequencies directly from the right frontal lobe. The difference is that in PTSD the person has put in place a psychological block (as an avoidance mechanism) to remembering specific horrific memories normally accessed from the right frontal lobe, whereas the autistic person is neurologically incapable of accessing anything from his right frontal lobe (Appendix C: Differential Diagnosis).

A further difference is that PTSD responds to therapy whereas autism does not. No amount of counseling can talk a person out of hyperfocus.

**The Litmus Test**

Hyperfocus is the unique and defining characteristic of autism. 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:

- How often do you cry?  "never" or "rarely"
- How often do you laugh?  "never" or "rarely"
- What are you afraid of?  either "nothing" or an intellectual answer
- What are you feeling right now?  either "nothing" or an intellectual answer
- Do you ever get bored?  "never"

Anyone who answers all five questions as above is autistic. Anyone who answers four or fewer as above is not autistic. [Note: If the person answers the third question with a phobia (e.g., of heights), then re-ask the question this way, "Aside from this phobia, do you normally experience fear of any kind?"]

**Conflict of Interest**

There is no conflict of interest.

**References**