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#### the Advocacy Alliance

Health Care Quality Units

- Autism. The information presented to you today is intended to increase your understanding of
- The information is not intended to replace medical advice.
- If you are in need of medical advice, please contact your physician.



#### Objectives

By actively participating, you will learn:

- An introduction to autism.
- Symptoms/characteristicsCause/Theories.
- Diagnosis.
- Caregiver strategies.

Treatment.

Prognosis.



### Introduction

- function. Is a complex developmental disorder of brain
- behaviors, and, social interactions. Is marked by abnormal communication,
- Individuals with autism process and respond to information in unique ways



### Titroduction

- Is referred to as a "spectrum disorder" meaning severity. the features/symptoms vary in number and
- Autism Spectrum Disorders include:

- Autism
- Asperger's Syndrome
- Pervasive Developmental Disorder, Not Otherwise Specified
- Rett's Disorder
- Childhood Disintegration Disorder



### THE OCEON

- Usually evident in the first 3 years of life.
- Four times more common in males than females.
- 1000). Estimated to occur in 1 in 150 people (2-6 per
- Affects people of all racial, ethnic, social, and economic groups
- Rates are relatively consistent around the world.



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#### Autism is not:

- A mental illness.
- Caused by poor parenting ("refrigerator mothers") or psychological trauma.
- Always associated with mental impairment or behavioral challenges,



### introduction

Related/Accompanying disorders:

- Seizure disorder occurs in 25% to 30% of individuals with autism.
- Mental retardation occurs in 25% to 50 % of individuals with autism.
- with autism. Fragile X (the most common inherited form of mental retardation) occurs in 5% of individuals
- Tuberous Sclerosis (genetic disorder- tumors in of individuals with autism. the brain and on other vital organs) occurs in 6%



### Impaired social interaction:

- Difficulty learning to engage in the give and take of everyday human interaction.
- Seem indifferent to others and prefer to be alone
- Seldom respond to displays of anger or affection in usual ways. (resist attention, hugs, cuddling)
- Difficulty interpreting what others think and feel.



### Impaired social interactions:

- Subtle social cues (wink, smile, frown) may have little meaning.
- May have difficulty regulating emotions (may lead to seemingly inappropriate outbursts).
- May have trouble seeing things from another or understand the actions of others. person's perspective, making it difficult to predict



Impaired communication:

- autism. Lack of functional speech in 50% of people with
- May use language in unusual ways.
- Impaired ability to initiate and maintain a Echolalia- repeating word/phrase over and over. conversation.



### Impaired communication:

- Unusual voice volume, pitch and inflection (tone of voice fails to reflect their feelings
- Difficulty with nonverbal communication-may not expression and gestures of others. be able to "read" body language, facial
- The use of nonverbal communication may not match their intent.



Unusual and/or over-focused behaviors stereotypical behaviors):

- Inflexible adherence to routine (a slight change in routine can be extremely disturbing.
- May appear to be oblivious to the outside world.
- Repetitive behaviors may take the form of technology. is with numbers, symbols, charts science and persistent, intense preoccupation; frequently this



Unusual and/or over-focused behaviors:

- (stereotypical behavior)
- Inappropriate attachment to objects Repetitive physical behaviors such as arm tlapping, spinning, rocking etc.
- These behaviors could be in the form of self injury, such as head banging or skin picking



Unusual sensory responses:

- (touch, taste, smell, sight and sound). The brain seems unable to balance the senses
- Over- or under-active sensory responsiveness be present). (abnormal responses to sensory stimulation may



## Symbloms/Characteristic

Unusual sensory responses:

Examples:

Touch- the feel of clothes against skin may be unbearable, yet reaction to a severe injury may not be demonstrated

Sight- bright flashes, fluorescent lighting may feel visually painful.



Unusual sensory responses:

Examples:

- Auditory- normal sounds may sound amplified, multiple sounds may be overwhelming.
- highly seasoned foods. Taste- may prefer bland foods or may crave



Unusual sensory responses:

Examples:

Smell-may be highly reactive to certain odors, deodorizers). (e.g., perfumes, cleaning products, room



Other possible characteristics:

- Hyperactivity or under activity.
- apparent reason. Laughing, crying, showing distress for no
- Does not smile when smiled at.
- Does not respond to his/her name. Tantrums, aggression to self or others



### Cause I heories

1. Genetics There is no known single cause, research points to:

There may be a specific or abnormal gene Autism Spectrum Disorder. chance of having another child with autism or that increases susceptibility to autism. Parents with an autistic child have a 5%



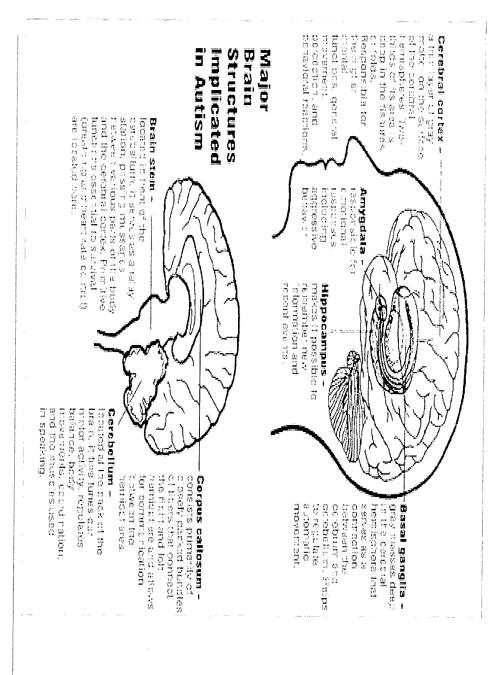
### CHESC I Incomes

#### 2. Brain structure

- growth. Abnormal brain development during fetal
- 0 Neurons are smaller than normal in some brain regions.
- chemicals" (neurotransmitters). Abnormalities in the brains "signaling



#### Structures plicated





### Cause/Theories

- 3. Environmental factors
- Chemicals and pesticides.
- Exposure to heavy metals (lead,mercury).
- Air, water pollution.
- 5. Viruses and infections. 4. Neurological, metabolic and immunologic.



### Cause Incornes

An important note about vaccinations:

between vaccinations and autism. concluded that there is no causal relationship After many in-depth, large scale studies, it is





features are evident: Diagnosis is usually made by age 3 if these There is no specific diagnostic test.

- Underdeveloped language skills.
- Poor or limited social skills.
- Unusual behaviors and responses



#### Diagnosis.

developmental milestones: Screening in infancy and early childhood for normal

Parental observations and screening tools

genetic assessment. socialization. Neurological, cognitive, and Diagnosis- observation of language, play



#### Feathen

treatment options that are helpful: Autism cannot be cured, however, there are various

- Medications used for depression, anxiety, autism. hyperactivity and other behaviors related to
- Behavior management therapy can reduce and help caregivers identify proper interventions. unwanted behaviors, increase desirable behavior



- Early education and intervention.
- Speech-language therapy can improve the ability to more effectively communicate.
- Occupational therapy. Physical therapy can help with motor control and



## Caregiver Strategies

- Create a structured environment.
- Maintain routine.
- Use a special interest or activity as a reinforcement.
- Allow the stereotypic behavior to continue, if it is not harmful.
- Engage in regular vigorous exercise.



## Caregiver Strategies

- Give brief, simple, step-by-step instructions.
- To reduce negative response to sensory stimulation consider: Do not force or insist upon direct eye contact.
- Using incandescent or natural light sources instead of fluorescent.
- Provide a calm, quiet environment.





Use natural or unscented cleaning products, clean when the person is not home.

Check the temperature of bath/shower water and food and drink.



## Autism and the Hospital

- A familiar person should visit frequently.
- Be available to communicate useful dislikes, etc information regarding medical history, likes,
- Inform hospital staff of any known behavior "triggers" and how to manage them.
- Explain to staff how the person expresses pain
- See Effective Communication With Hospital Staff PowerPoint.



### TOOMOSIS.

### Adults with Autisia

and intervention. respond positively to well designed education Although individuals will not be cured of autism, individuals of all ages and ability levels can



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### Adults with Autism

- Many individuals are capable of employment in sheltered workshops, or participation in day
- Communication, social, and behaviors issues and encouragement must continue. may continue into adulthood. Ongoing support programs.



#### Prognosis

## AGUICS WILD AUTSI

Individuals with autism and mental retardation supervised or skill development homes. will probably require dependent living in

Continuing strategies that include behavior potential behaviors that will help them reach their full help adults with autism learn new skills and speech, physical and occupational therapies can management, education, supervised living and

