

# How Autism Can Affect Healthcare

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# Caring for Patients on the Autism Spectrum: How Autism Can Affect Healthcare

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### 1 Overview

There is great heterogeneity amongst individual patients on the autism spectrum. We have created the Autism Healthcare Accommodations Report to help your patients or their supporters give you individualized information about how being on the autism spectrum affects their healthcare, and what strategies and accommodations may facilitate care.

The following section describes some of the underlying issues that may necessitate special strategies and accommodations for patients on the autism spectrum.

This information, and other information about adults and ASD, can also be found in our paper *Nicolaidis*, *C.*, *Kripke*, *C.C.*, *Raymaker*, *D.M.* (2014) *Primary Care for Adults on the Autism Spectrum Medical Clinics of North America.* 98;1169-1191. download Medical Clinics paper

# 2 Communication and Interaction

# 2.1 Potential for false assumptions about communication skills

Individuals on the autism spectrum, by definition, have atypical communication. There is great heterogeneity between patients in regards to communication strengths, challenges, and styles. An individual patient's ability to communicate may vary greatly between modes of communication (e.g. spoken vs. written language). There may be large differences in receptive vs. expressive communication. For example, someone may understand spoken language, but not be able to speak, or may speak fluently, but not be able to process auditory information accurately. There may also be large variations in communication in an individual patient from one time to the next, depending on the environment, medical illness, or other stressors. For example, a patient who speaks fluently during a normal visit may not be able to use speech effectively in an emergency or in an over-stimulating environment. Similarly, a patient may be able to communicate via speech in-person, but may not be able to process spoken language over the telephone.

Understanding a patient's communication needs, strengths, and preferences is very important. Patients on the autism spectrum attribute many failed healthcare interactions to providers' assumptions, misunderstanding of their strengths or challenges, or the fact that the communication did not occur using the most effective method.

"I prefer and find it easier to communicate in text... But with every doctor I speak to, they wave away the note-card and look at me to ask the same question I have just answered and interpret my confusion as my being non-compliant with the medicine. I wish health care providers would read the notes I make for them. I wish they would be patient as I pause a lot and stutter when I am overloaded."

Do not assume that a patient cannot understand healthcare information or communicate with you when he or she does not speak fluently. Similarly, do not assume that a patient who speaks fluently or with an advanced vocabulary doesn't have significant communication difficulties.

"Usually when I demonstrate a large vocabulary or some fundamentals, my needs especially around communication are then ignored. My choice is then to pretend to be less intelligent and accept their infantilism, or to be confused, frustrated, and stressed out."

Just because I have difficulty expressing what is going on with me doesn't mean I am stupid or that I am making things up."

### **TIPS**

Try to obtain individualized information (e.g. via the Autism Healthcare Accommodations Report) from patients or supporters about the following.

- Patient's ability to understand spoken language.
- Patient's ability to speak.
- Patient's ability to read and write.
- Patient's use of alternative and augmentative communication (AAC). AAC
  may include picture-based systems (e.g. picture boards), text-based systems (e.g. text-to-speech programs), sign language, or other signs or
  behaviors. They may be stand-alone devices, programs on computers,
  tablets, smartphones, or informal systems (e.g., picture cards, notes on a
  piece of paper).
- Patient's preferred mode of communication.
- Patient's ability to use the telephone for between-visit communications (and more effective alternatives if telephone communication is not effective).
- Degree to which communication normally varies based on environmental factors or stress.

Attempt to use the most effective communication mode, even if it means altering your usual interview style. For example, depending on patients' needs, you may wish to have patients write or pre-record information, encourage them to use communication devices during visits, or communicate with them via electronic mail or other forms of secure messaging.

# 2.2 Literal and precise language

It is common for individuals on the autism spectrum to take language literally.

"They asked him, on a level of one to ten, where is your pain. First time he said, 'How do you weigh your pain? ... I don't weigh my pain."

It is also common for individuals on the autism spectrum to require very precise language. This often becomes a concern when providers offer relatively vague information or ask patients broad, open-ended questions.

"'How do you feel?' Too vague. 'Can you describe your symptoms?' I can somewhat answer this, but not fully. It's a starting point, not end point. Specific questions related to symptoms are good: 'Does your side hurt?' 'Are you keeping food down?'"

Patients may also experience anxiety because they do not know how to answer a question with complete accuracy. For example, if a provider asks, "Do you ever have chest pain?" a patient may feel that he needs to think back to every day of his life to make sure he has never felt a pain in his chest. Or they may not be able to answer how frequently something happens because the symptom is not constant.

Strategies or accommodations to address the need for precision may vary by patient. For example, although some patients may need providers to use simple words and short sentences, other patients may find longer sentences or advanced vocabulary easier to understand, because it may enable the provider to be more precise.

**TIPS** ¡p¿It is best to obtain information (e.g. via the Autism Healthcare Accommodations Report) about your patient's specific preferences. In general, it is often helpful to do the following.

- Be very concrete and specific.
- · Avoid figurative expressions and figures of speech.

- Avoid broad questions. In some cases you may need to ask mostly closeended questions or even only ones that patients can answer with "yes" or "no". In other cases, patients may be able to answer open-ended questions if you provide them with specific instructions or examples of the type of information that you seek.
- Show patients lists of symptoms from which to choose.
- Give examples of the types of things people may experience, and have the patient tell you if he or she also experiences them.
- Remind patients that it is OK if they do not know the answers to questions or are not exact in their answers.
- Give patients very direct and concrete examples when discussing your assessment and plan.
- Direct patients to detailed information or resources about their health conditions and treatment options.

#### 2.3 Non-verbal communication

Patients may have difficulty understanding tone of voice, facial expressions, or body language. They may inadvertently seem rude due to their atypical body language or facial expressions (potentially in addition to their use of very direct language).

"Talking to people doesn't come naturally to me. I have a lot of difficulty with open ended questions and a lot of trouble understanding other people especially if there is any background noise or if they are misreading me or my face and then react to me. I get that a lot. People somehow think I am being rude or deceiving them or being manipulative for no reason that I can see. So they tend to get more aggressive with me."

Individuals on the autism spectrum often avoid eye contact. Do not force a patient to make eye contact, because it may be uncomfortable or may hinder his or her ability to communicate effectively.

"Don't assume no eye contact means we are not listening or we are being deceptive. It is often a way we need to behave to regulate incoming stimulli and not be overwhelmed by too much at once."

### **TIPS**

Patients may make repetitive motions, also called "stimming". Examples include hand flapping, rocking, or pacing. Stimming may be an effective coping mechanism, especially during times of stress such as medical visits. Do not assume that a patient is distracted or inattentive just because he or she is fidgeting, making repetitive movements, or avoiding eye contact with you.

# 2.4 Processing speed and real-time communication

Many individuals on the autism spectrum have difficulty processing information quickly or communicating in real time.

Processing speed may interfere with healthcare communications in multiple ways. Patients report not being able to process language or information quickly enough to respond to questions or make healthcare decisions. They also may not be able to process sensory stimuli rapidly. For example, during a physical examination, a patient may not be able to indicate that an area is tender before the provider has started palpating a different area.

"It might take a while for a patient to effectively communicate. It takes them a little bit extra amount of time to process questions, process information, and sometimes their responses are, you know, gonna be more delayed than say the typical patient('s) might. ...for instance if the patient receives questions or information to describe or identify their conditions or their symptoms, they might not be able to answer right there. They might sort of need to go home and kind of think over it, and then be able to answer the next session, or even call in and describe it."

### **TIPS**

Potential Accommodations Related to Processing Speed:

Give patients time to process what has been said or to answer questions.
 Check to make sure they are ready to move on.

- Give patients extra time to process things they need to see, hear, or feel before they respond.
- If possible, schedule longer appointments.
- Encourage patients to prepare notes in advance about what they want to discuss. Carefully read any notes that patients bring to the visit. A variety of templates are available to help patients prepare for visits.
- Write down important information or instructions, so that patients can review them later.
- If appropriate, direct patients to detailed information or resources about their health conditions, so that they can review these outside of the appointment.
- If necessary, give patients time to make a decision and communicate the decision at a later time. It may be possible to see another patient and then return to finish a visit with the original patient, or it may be best to schedule a follow-up visit.

# 3 Sensory Issues

Individuals on the autism spectrum commonly have atypical sensory processing. This may take the form of increased or decreased sensitivity to sounds, lights, smells, touch, or taste. They may have great difficulty filtering out background noise, processing information in over-stimulating environments, or processing more than one sensation at a time.

Sensory issues can have many important effects on healthcare interactions. Patients describe many instances where sensory issues interfered with effective healthcare.

"...I have just traveled to the office on a very loud bus or train. The lights in the office are very bright and that is exacerbated by the white walls. Sometimes the waiting rooms are crowded and I cannot filter out the background of people talking or shuffling magazines. I feel disoriented by being led down long hallways to different rooms.... I am not able to bring up my concerns because it is all I can manage to figure out what the doctor is saying so I can respond to his questions."

### **TIPS**

The following are examples of accommodations or strategies that may be helpful for some patients, depending on their sensory processing. It is best to obtain individualized information (e.g. via the Autism Healthcare Accommodations Report).

- Use natural light, turn off fluorescent lights if possible, or make the lighting dim.
- Try to see the patient in a quiet room.
- Have only one person talk at a time, and try not to talk to the patient while other noises are present.
- Avoid unnecessarily touching the patient (for example, to express concern).
- Warn the patient before you touch him or her. (See section on physical examinations for additional information.)
- Encourage patient or supporters to bring objects to reduce or increase sensory stimuli. Examples may include headphones to block noise, sunglasses or hats to block light, or sensory toys such as stress balls, gum, spinning tops, or soft fabric.

# 4 Body Awareness, Pain, and Sensory Processing

Many patients on the autism spectrum experience a variety of challenges related to limited body awareness. Examples include difficulty discriminating

abnormal from normal body sensations; difficulty pinpointing the location of a symptom; difficulty characterizing the quality of a sensation; particularly high or low pain thresholds; and difficulty recognizing normal stimuli such as hunger or the need to urinate. Patients often describe situations where issues related to body awareness caused providers to make incorrect medical assessments.

"I don't know my own body. ...So when I feel all these different sensations, everywhere, I don't know which is the real problem and which is just sensation."

"The problem is it is difficult for me to isolate specific sources of pain and identify duration and intensity. It's sort of like the equivalent to white noise."

**TIPS** It is important to consider the possibility that differences in body awareness may be affecting how a patient recognizes or describes a symptom, or how a patient responds to illness. In some cases, you may need to do additional testing or imaging, because information from the history and physical examination may be limited.

# 5 Planning and Organizing

# 5.1 Consistency

Many individuals on the autism spectrum have a high need for consistency. They may become anxious or confused by changes in routine, which may lead to melt-downs or an inability to function. Alternatively, they may need more detailed explanations than other patients to plan for a visit or to stay focused and comfortable during a visit.

"Meeting new people is very difficult, so when I was always shuffled to a specialist, it was extremely scary and anxiety provoking."

# **TIPS**

You can get individualized information (e.g. via the Autism Healthcare Accommodations Report) on strategies to address the need for consistency, but in general, the following strategies may be helpful to patients on the autism spectrum.

Before a visit, ask staff to do the following.

- Let the patient or his or her supporters know what is likely to happen during an office visit.
- If possible, avoid rescheduling appointments. Notify patients as soon as possible if the schedule changes unexpectedly.
- Give the patient pictures, or let the patient or a supporter take pictures, of the office or staff.
- When the patient checks in, let him or her know how long the wait is likely to be. Give patients plenty of warning if there is an unexpected delay.

### 5.2 Time awareness

Some individuals on the autism spectrum report difficulty with concepts related to time. This may make it challenging to answer questions about the onset, duration, or frequency of symptoms or illnesses. It may also make it more difficult to follow time-based instructions.

### **TIPS**

- Help the patient answer questions about time by linking to important events in his or her life.
- Work with the patient to explain time-based recommendations. For example, help the patient set up an alarm for when to take a pill, or link the act of taking a pill to specific parts of a daily routine.

### 5.3 Visual thinking

Some but not all individuals on the autism spectrum "think in pictures". It may be easier for them to understand information and make decisions if you use visual aids. Note that patients with fluent speech may still have significantly stronger visual processing than auditory processing skills.

### **TIPS**

- Offer to use diagrams, pictures, or models with patients who may benefit from them.
- Create (or have your staff or the patient's supporters create) visual schedules for your recommendations). Example:
   ¡img src="inc/img/vis\_sched\_ex.jpg"/¿
   Download a blank visual pill schedule (Excel)

# 5.4 Planning, organizing, and sequencing

Many individuals on the autism spectrum have difficulties with planning, organization, and sequencing. These challenges can have significant impacts on patients' ability to navigate the health system or follow recommendations.

"With my autism it is very difficult for me to understand and follow all the different appointments and procedures I have to schedule and how to do it, and no one will help me since apparently people magically become competent at these things before they turn 21."

"It's like having a list of a hundred things you have to get done right a way, which you must memorize aurally in the five minutes you spend with the doctor and then execute without error, even though you don't even understand how to do half the things you need to do."

#### **TIPS**

Possible accommodations or strategies to help minimize the impact of such challenges include the following.

- Write out detailed step-by-step instructions.
- Show patients what you want them to do while they are still in your office.
- Have office staff help the patient schedule follow-up visits, referrals, or tests.
- Show or have someone show the patient how to get to other places in your office or medical center.
- Have office staff contact the patient or his or her supporters after the visit, to make sure that the patient has been able to follow your instructions.
- Give patients worksheets or diaries to keep track of symptoms.
- Give the patient detailed information about how to communicate with office staff between visits.

### 6 Exams and Procedures

# 6.1 Physical examiniations, tests, and procedures

### **TIPS**

It is best to obtain individualized information (e.g. via the Autism Healthcare Accommodations Report) about what will help a patient better tolerate examinations of procedures. The following are examples of accommodations or strategies that may help patients.

- Explain what is going to be done before doing it.
- Show the patient equipment, or pictures of the equipment, before using it.
- If possible, let the patient do a "trial run" of difficult exams or procedures.
- Tell the patient how long an exam or procedure is likely to take.

- Warn the patient before touching or doing something to him or her.
- Limit the amount of time a patient must be undressed or in a gown.
- Give patients extra time to process things they need to see, hear, or feel before they respond.
- Allow the patient to sit, lie down, or lean on something during procedures, when possible.
- Let patients use a signal to tell you they need a break.
- Ask the patient from time to time if he or she is able to handle the pain or discomfort.

In many cases, thoughtful planning and appropriate accommodations can enable patients to tolerate examinations and procedures that have previously been intolerable. Nevertheless, there may be times when patients need anesthesia to tolerate examinations or procedures.

# 6.2 Phlebotomy

Phlebotomy may be particularly challenging for some patients on the autism spectrum. If a patient has had a particularly hard time with blood draws, you may consider some of the following strategies and accommodations.

### **TIPS**

- Order blood tests only when absolutely necessary, and group them together to minimize the number of draws.
- · Allow the patient to lie down or lean back on something.
- Use a numbing spray or cream.
- Be patient, and use a calm voice.

- Give the patient a very detailed explanation of what will happen, including how many tubes of blood you will fill.
- Consider giving the patient an anti-anxiety medication before the blood draw.
- Give the patient plenty of advance warning, so that he or she can prepare herself emotionally.
- Give the patient something to distract his or her attention.