

AASPIRE

Nothing About Us Without Us: The Importance of Community-Based Participatory Research to Improve the Validity, Translation, and Impact of Clinical Research

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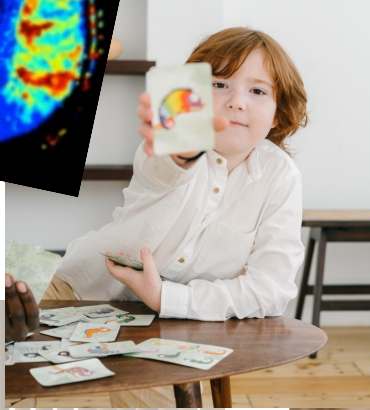
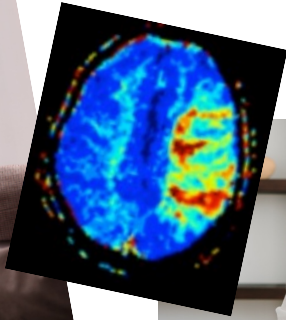
Co-Director, Academic Autism Spectrum Partnership in Research and Education

Editor-in-Chief, *Autism in Adulthood*

ASHA Researcher-Academic Town Meeting, November 2022

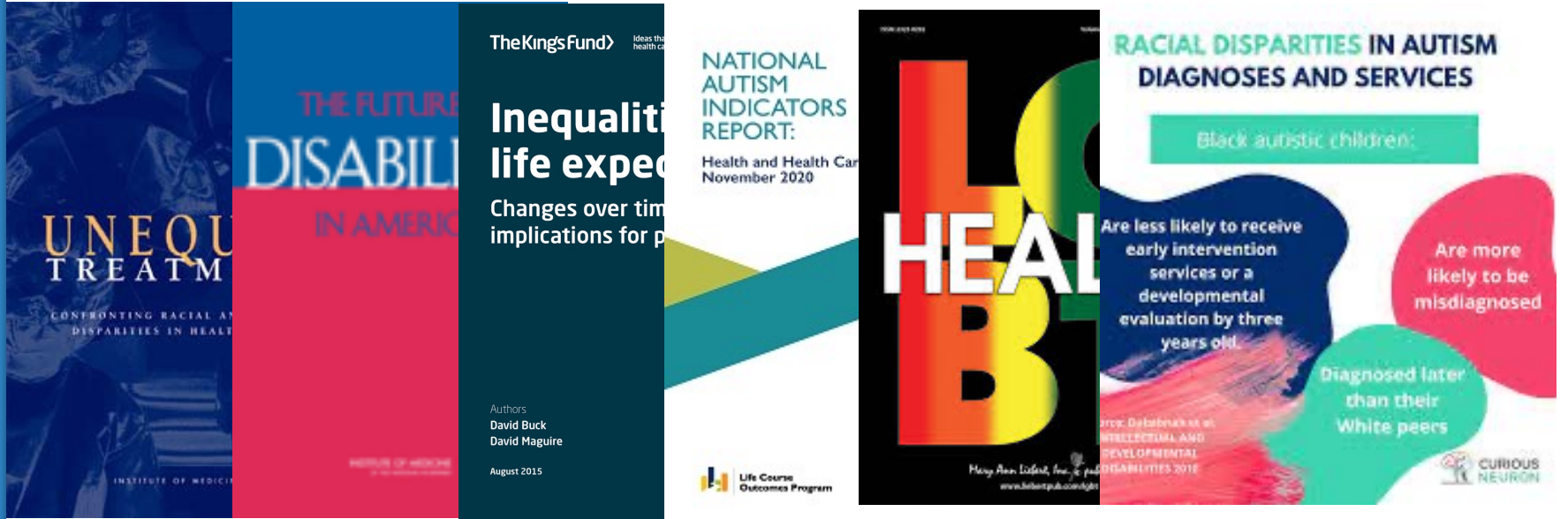
Disclosures

- ▶ I receive a stipend from Mary Ann Liebert Publishers for serving as Editor in Chief of *Autism in Adulthood*.



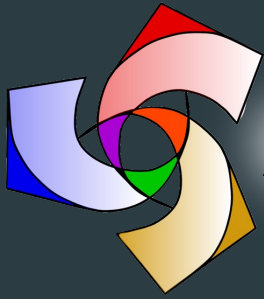


But We Don't...



2006





AASPIRE

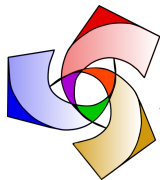
www.aaspire.org

- ▶ Co-Founded in 2006 by Christina Nicolaidis and Dora Raymaker
- ▶ Autistic and non-autistic academic scientists
- ▶ Community partners
 - ▶ Autistic adults with and without ID, speaking and non-speaking, with wide range of support needs, and other intersectional identities
 - ▶ Family members, disability services professionals
- ▶ Community Based Participatory Research (CBPR)

Academic Autism Spectrum Partnership in Research and Education



Nicolaidis et al. (2011) <https://doi.org/10.1353/cpr.2011.0022>
Nicolaidis et al. (2019) <https://doi.org/10.1177/1362361319830523>



AASPIRE Research Projects



Health Care



Outcomes



Mental Health



Employment

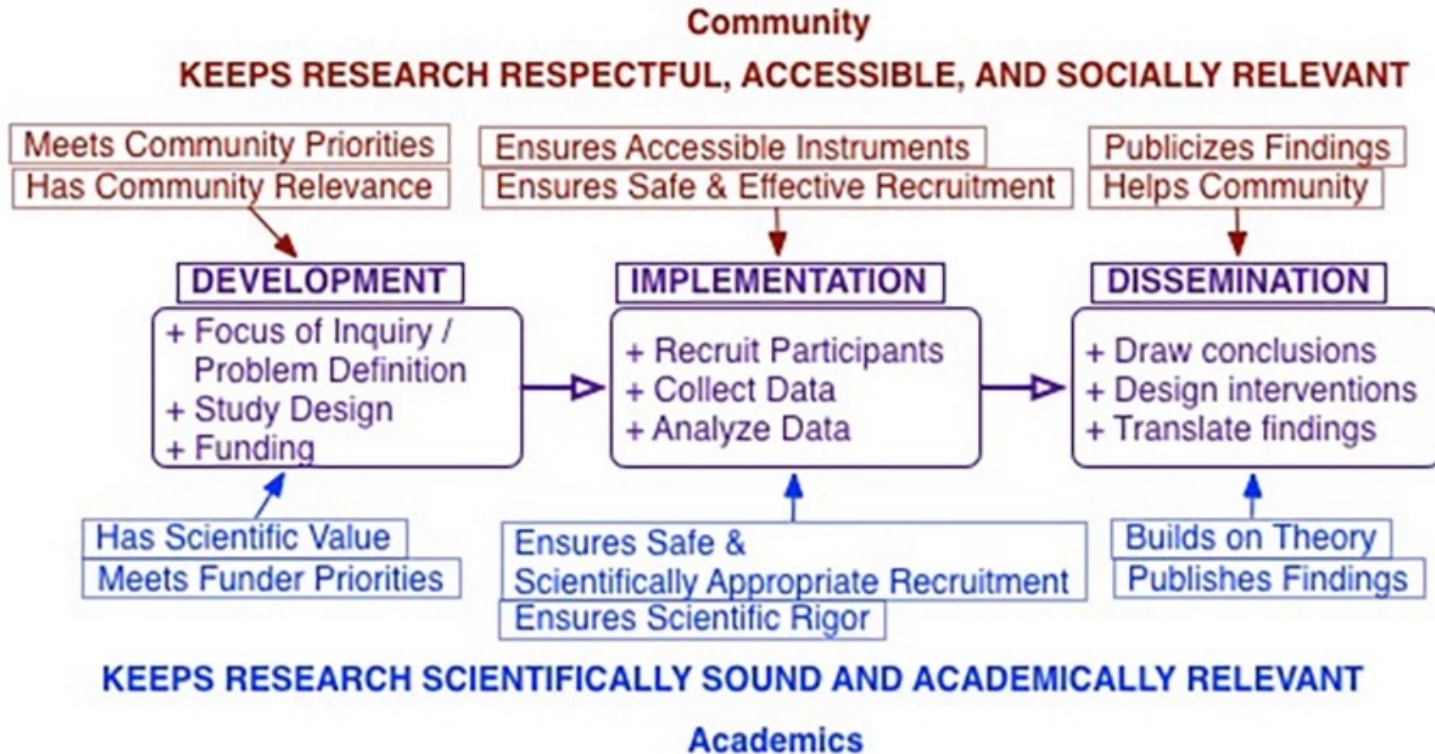
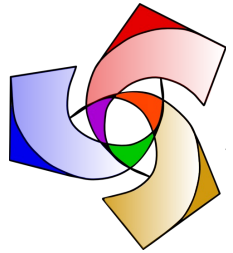


Pregnancy



Violence and Abuse

Community Based Participatory Research (CBPR)



Disabled Scientists (or Scientists in Training)

- ▶ Extremely important to increase diversity - including neurodiversity and communication diversity - in academia!!!
- ▶ “Insider researchers” bring wonderful strengths and perspectives to research.
 - ▶ Outsider researchers are not any more objective or less biased just because we may not notice their identities and biases.
- ▶ However, just including an insider researcher does not make it CBPR. (And CBPR cannot replace the need for researchers with disabilities.)
 - ▶ Disabled scientists cannot represent full range of lived experiences.
- ▶ Need to pay attention to inherent power imbalances.

Not All Participatory Research is (or should be) CBPR



Need to match to the context and goals of the research



Be transparent about approach and expectations



Don't pretend to be doing something you are not!



Be careful not to tokenize people



Actively work to match theory and practice

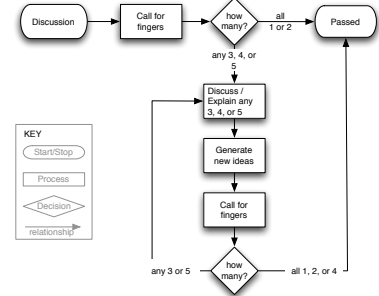
What Does it Take to Be Equal Partners?



- ▶ True commitment to equal power sharing
 - ▶ In EVERY phase from start to finish
- ▶ Community representatives in leadership roles
- ▶ LOTS of work
 - ▶ Clearly define roles and expectations
 - ▶ Understand and meet accessibility needs
 - ▶ Build and maintain trust
- ▶ Shared Decision-Making
- ▶ Accessible Communication
 - ▶ E.g. structured email format
- ▶ Transparency
- ▶ Continuous evaluation and creative solutions!

5-Finger Consensus Process

- 1 - I love it!
- 2 - It's fine.
- 3 - I have more questions. (and what they are)
- 4 - I don't like it, but I won't block it. (and why)
- 5 - I dislike it so much I can't live with it. (and why)



Nicolaïdis et al, PCHP, 2011

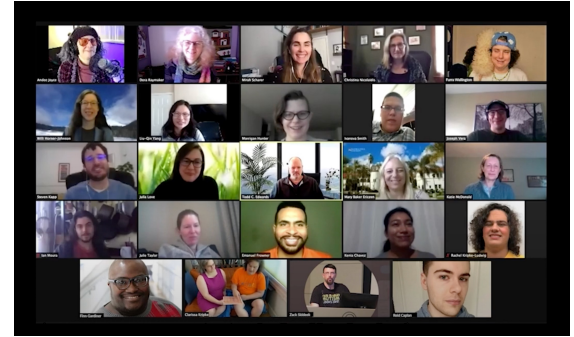
Keep / Change for Today's Meeting

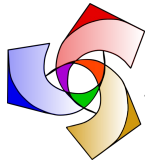
What do you want to keep doing?

What would you like to change?

Full Team Meetings

- ▶ Far, far more thought and work than typical team meetings.
- ▶ Preparation materials shared a week in advance
 - ▶ Multiple formats (detailed, easy read, and compact)
 - ▶ Optional pre-meeting to go over materials.
- ▶ Mix of slides, video, text chat, professional closed-captioning.
- ▶ Strong facilitation and clear etiquette to avoid feeling like it's “two meetings.”
- ▶ Structured consensus process for all decisions.
- ▶ Survey Geek meeting (week before).





AASPIRE Guidelines

AUTISM IN ADULTHOOD
Volume 1, Number 2, 2019
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DOI: 10.1089/aut.2018.0020

Development of the AASPIRE Web Accessibility Guidelines for Autistic Web Users

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Michael Weiner, MD, MPH^{2,5} Elesia Ashkenazy, BA,² and Christina Nicolaidis, MD, MPH^{1,2,6}

Original Article



The AASPIRE practice-based guidelines for the inclusion of autistic adults in research as co-researchers and study participants

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SAGE

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AUTISM IN ADULTHOOD
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Advances in Measurement Methods

Creating Accessible Survey Instruments for Use with Autistic Adults and People with Intellectual Disability: Lessons Learned and Recommendations

Christina Nicolaidis, MD, MPH,¹⁻⁴ Dora M. Raymaker, PhD,^{1,3,4} Katherine E. McDonald, PhD,^{3,5}
Emily M. Lund, PhD, CRC,^{4,6} Sandra Leotti, PhD,^{1,4,7} Steven K. Kapp, PhD,^{3,8} Marsha Katz, MS ED,^{4,9}
Leanne M. Beers, PhD,⁴ Clarissa Kripke, MD,^{3,10} Joelle Maslak, BA,³
Morrigan Hunter, MA,³ and Kelly Y. Zhen^{1,3}

Webinars and LOTS of Sample Materials at:

<https://aaspire.org/inclusion-toolkit/>



CBPR Greatly Affects the Research Itself

A Common Fallacy

Equity * Neurodiversity * Social Justice *
CBPR * Qualitative Methods * Lived
Experience * Power Sharing



Inclusion



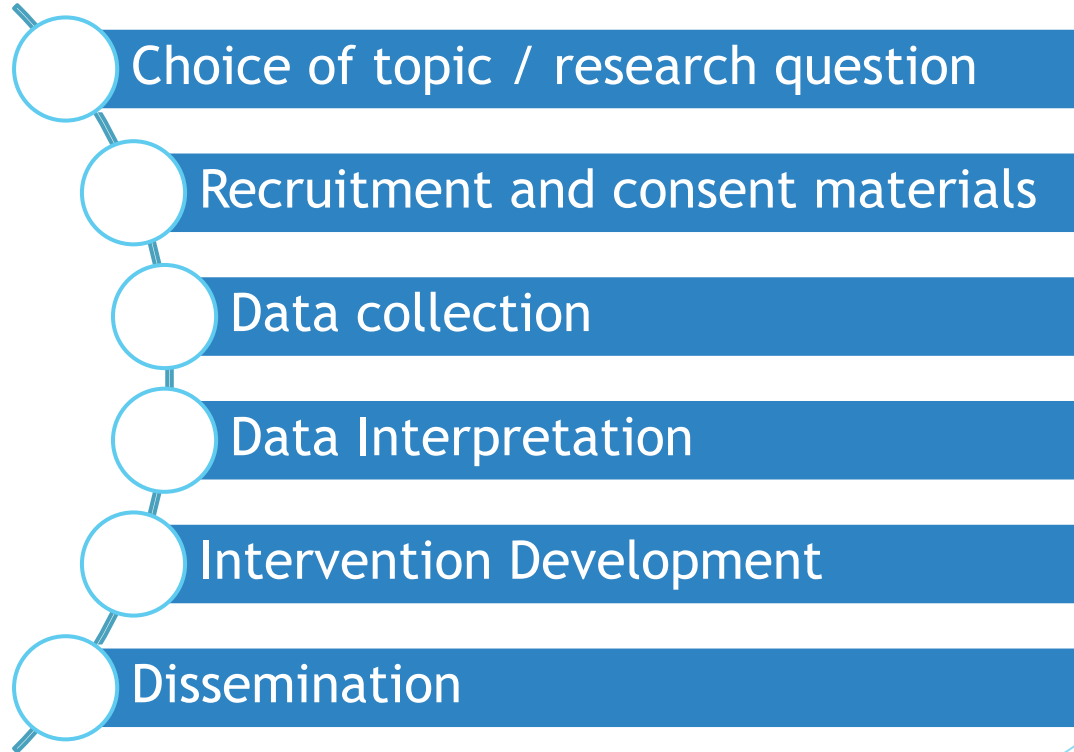
Scientific Rigor

Quantitative Methods * Sampling Frames
Validity * Reliability * Effectiveness *
Protection of Human Subjects



But I Would Say It's the Opposite

Partnership Affects Every Part of the Project



Choice of Topics / Research Question

- ▶ Team discussions about new ideas / opportunities.
- ▶ Focus on high priority topics (for example, healthcare, employment, violence).
- ▶ Autistic Burnout Study
 - ▶ Autistic adults talk about it all the time, but it was totally missing from research and practice.
 - ▶ Small study to define and describe autistic burnout.
 - ▶ Viral response from autistic community.
 - ▶ Now, lots of interest among researchers and clinicians.



Accessible Consent

- ▶ Co-create materials with community partners
- ▶ Clear, simplified consent materials
- ▶ Q&A format
- ▶ Visual aids / white space
- ▶ Reduce participant burden (e.g. online consent)
- ▶ Time to discuss with trusted person



This form has **information** about being in a research study.
After you read the details, **you can decide if you want to take part in the study.**

- If you have a legal guardian, be sure to make the decision with your legal guardian.
- If you are the legally authorized representative for a person who may take part in this study, we need your permission for them to participate.

Who is Doing this Research?

This study is being done by a team of autistic and non-autistic researchers.

The team is called the **Academic Autistic Spectrum Partnership in Research and Education (AASPIRE)**.



Christina Nicolaidis, MD, MPH, at Portland State University (PSU) is in charge of this study. (She is the Principal Investigator.)

Other researchers are helping Christina with this study. (They are the Co-Investigators.)

Julie Lounds Taylor, PhD
at Vanderbilt University
Medical Center (VUMC)

Willi Horner-Johnson, PhD
at Oregon Health and
Science University (OHSU)

Mary Baker-Ericzén,
PhD at San Diego State
University (SDSU)

Dora Raymaker, PhD
at Portland State
University (PSU)

Julia Love, PhD at Multnomah
County Developmental
Disability Services

The team also includes other scientists, **autistic community members**, **research assistants**, and **students**.

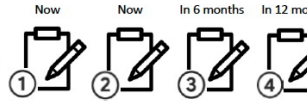
See <https://aaspire.org/inclusion-toolkit/accessible-research/>
for sample consent forms.

Accessible Consent Forms

Study Activities

What will happen if I decide to be in the research study?

We will ask you to take a **series of surveys**.



Each survey will take about **1-2 hours** to complete.



You can take a break or start the survey on one day and finish it on a different day.

You can complete the survey **online** by yourself or with help from someone you trust.

If you would like, you can also take the survey **over the telephone** or **via Zoom** with help from a research assistant.



Who may see my information?

In general, **we will not tell anyone** which responses were yours. However, **there are some exceptions**:

- **If you tell us you are being abused**, we may have to report the abuse to Adult Protective Services.
- **If you tell us that you are actively planning to hurt yourself or anyone else**, someone from our research team may ask you more questions about your safety.
 - **If you or someone else are in severe danger**, we may need to tell someone in your local emergency system so that they can help you.
- **We may have to release (give) information to others.**
 - For example, there is a chance that someone may want to check that we are doing things the way we should be. (This is called an “audit.”)
 - We may need to give the information to:
 - i. The group of people at our University who make sure the research is ethical (the Institutional Review Board)
 - ii. The agency who pays for the study (the National Institute for Mental Health)
 - iii. Other agencies that oversee research (for example, the Office of Human Research Protection)
 - If that happens, we will try not to give information that could identify you.

And, **YES**, you can change IRB templates
(even the parts that say you aren't
allowed to change)
if you offer a good argument.

See <https://aaspire.org/inclusion-toolkit/accessible-research/> for sample consent forms.

Effective Recruitment

Recruitment materials that “speak” to the population

Recruitment via trusted community leaders

Access to community forums / events / venues

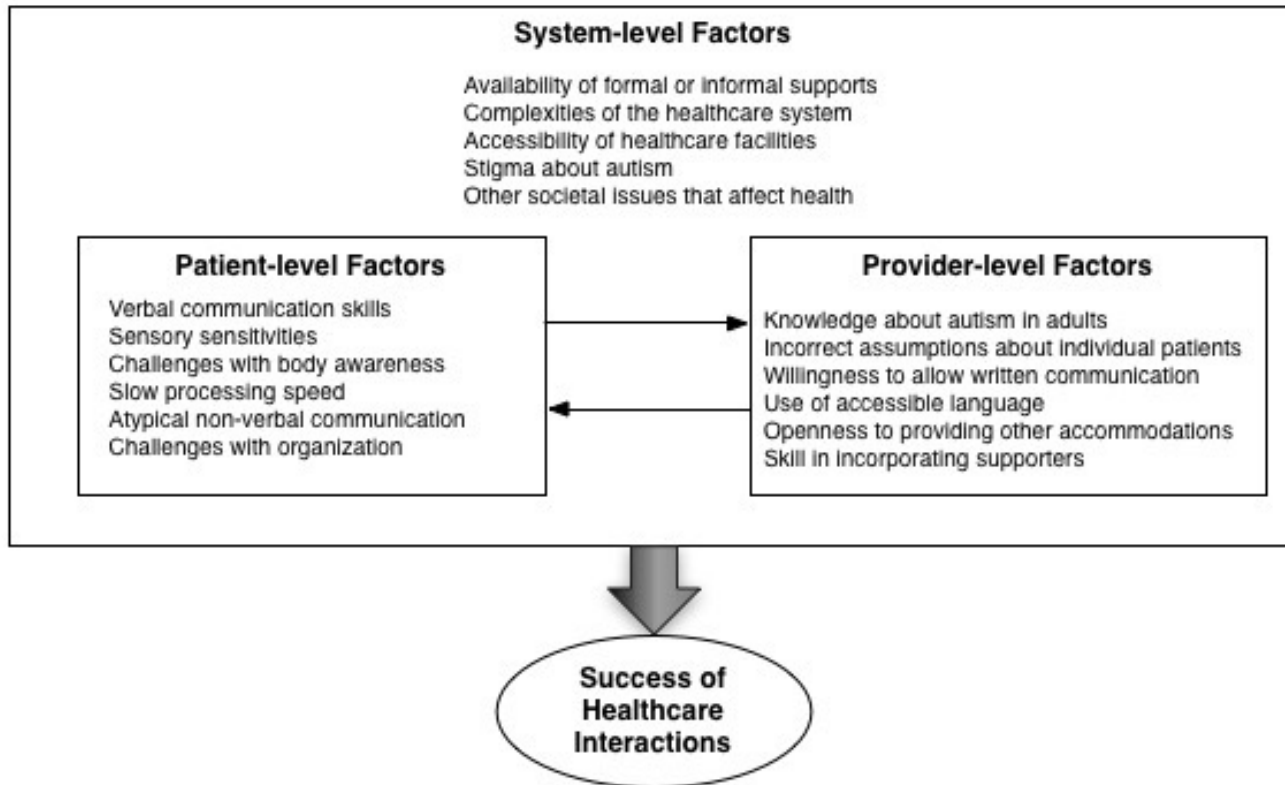
But be careful not to abuse trust!

Data Collection - Qualitative Interviews

- ▶ Challenges with “open-ended questions”
- ▶ Community partners help create effective interview guides
 - ▶ Instructions to help participants understand what we want
 - ▶ Make questions specific, even when they are open-ended
 - ▶ Make sure questions are concrete enough to be answered
- ▶ Partners helped us come up with good strategies
 - ▶ Show materials to participants before the interview
 - ▶ Offer lots of different ways to take part (telephone, video, IM chat, email, in person)
- ▶ Sometimes community partners collect data

See AASPIRE
Inclusion Toolkit
for sample
interview guides

Example Qualitative Results



Data Collection - Surveys

Over 16 years, our community partners have reviewed LOTS of existing survey “instruments”.

Found most existing instruments to be inaccessible.

Felt they would experience significant confusion, frustration, anxiety, or anger

Stated they would offer unreliable answers, leave many items blank, or stop participating in the study

Bad Data



Wrong Conclusions



Ineffective Efforts

Common Concerns

- ▶ Difficult vocabulary, confusing terms, imprecise language, or figures of speech
- ▶ Complex sentence structure, confusing grammar, or convoluted phrases
- ▶ Response options with vague terms
- ▶ Not enough context
- ▶ Anxious if responses could vary in different situations
- ▶ They don't fully capture the idea we want to measure
- ▶ Offensive and ableist language or concepts

Common Adaptations to Survey Instruments

Prefaces	Adding or changing prefaces to increase precision or explain context
Simplifying grammar	Simplifying sentence structure; removing passive voice
Vocabulary Substitutions	Substituting difficult vocabulary words, confusing terms, or figures of speech with more straightforward terms
Hotlinks	Adding hotlinks that define problematic terms or offer examples or clarifications
Graphics	Adding graphics to increase clarity of response options
Autism-specific items	Adding new items related to autism-specific aspects of the construct

AASPIRE Outcomes Study

- ▶ Large NIH grant to create and test “AutPROM Toolbox”
 - ▶ Set of survey instruments to evaluate the effectiveness of services for autistic adults.
- ▶ Phase 1: Nested Delphi process with CBPR approach to choose high priority outcomes
- ▶ Phase 2: Co-created or adapted instruments for each of these 15 outcomes.
- ▶ Phase 3: Large prospective cohort study to
 - ▶ Rigorously test psychometric properties
 - ▶ Identify predictors of change in outcomes over time.



<https://aaspire.org/projects/outcomes/>

Much more at
session 4519L,
Thursday
5:30pm

AutPROM Toolbox Outcomes

- ▶ Quality of Life and Overall Health
- ▶ Mental Health (Depression, Anxiety, Emotional Wellbeing, Autistic Burnout)
- ▶ Self Determination / Freedom to Make Choices
- ▶ Barriers to Communication
- ▶ Community Participation
- ▶ Employment Satisfaction
- ▶ Social Support
- ▶ Quality and Satisfaction with Healthcare Services and Social Services

Survey also includes **demographic, health, and disability characteristics, use of services, experiences of discrimination,** and a module on **gender identity and sexual orientation.**

Data Interpretation

- ▶ Community partners help make sense of the findings.
- ▶ “Confidence in Managing Health and Health Care Scale” factor analysis.
 - ▶ Two factors, but not the ones we intended.
 - ▶ Partners helped explain difference in two groups of questions.
 - ▶ Individual Healthcare Self-efficacy (i.e., only involves your own skills).
 - ▶ e.g. “How confident are you that you can bring what is needed to a healthcare visit?”
 - ▶ Relationship-Dependent Healthcare Self-Efficacy (i.e., also depends on the provider and/or health system).
 - ▶ E.g. “How confident are you that you can answer your healthcare provider’s questions?”

Intervention Development

- ▶ Academic and community partners work together to:
 - ▶ Come up with ideas for what the intervention could be
 - ▶ Decide what it should include
 - ▶ Work out all the details / co-create intervention.
- ▶ Examples
 - ▶ AASPIRE Healthcare Toolkit (www.autismandhealth.org)
 - ▶ Pregnancy decision videos (www.pregnancyanddisability.org)
 - ▶ Pregnancy Decisions App (in progress)
 - ▶ Community Suicide Prevention Program (in progress)



AASPIRE Healthcare Toolkit

Primary Care Resources for Adults on the Autism Spectrum and their Primary Care Providers

This web site has information and worksheets for adults on the autism spectrum, supporters, and healthcare providers. It focuses on primary healthcare, or healthcare with a regular doctor.

The resources on this site are meant to improve the healthcare of autistic adults. They were made by the [Academic-Autistic Spectrum Partnership in Research and Education \(AASPIRE\)](#) through a series of research studies funded by the [National Institute of Mental Health](#). AASPIRE hopes that you will find these resources helpful.

PATIENTS & SUPPORTERS

[click here](#)



Make a [Personalized Accommodations Report](#) for your healthcare provider.

This section also has information on:

- [Healthcare](#)
- [Staying Healthy](#)
- [Your Rights in Healthcare](#)
- [Autism Information](#)
- [Medical Information](#)
- [Checklists and Worksheets](#)



HEALTHCARE PROVIDERS

[click here](#)

This section has information on:

- [How Autism Can Affect Healthcare](#)
- [Tips for Successful Office Visits](#)
- [Legal and Ethical Considerations](#)
- [Autism Information, Diagnosis, and Referrals](#)
- [Associated Conditions](#)

Healthcare providers also might want share our [Autism Healthcare Accommodations Tool](#), and other [checklists and worksheets](#) with their patients on the autism spectrum.



OREGON HEALTH & SCIENCE UNIVERSITY



ASAN AUTISTIC SELF ADVOCACY NETWORK



SYRACUSE UNIVERSITY



AUTISM SOCIETY Improving the Lives of All Affected by Autism



INDIANA UNIVERSITY



Portland State UNIVERSITY

Resources, Forms, and Worksheets

- Practically address patients' most pressing needs.
- Co-created by providers and autistic adults.
- Team members pilot-tested them in their own care.
- 1-month pre/post-test improvements in patient-provider communication, self-efficacy, and barriers to care.

www.autismandhealth.org

Topic List

- Forms & Worksheets
- Healthcare
- Staying Healthy
- Your Rights in Healthcare
- Autism Information
- Computer & Internet Access
- Medical Information
- Personalized Accommodations Report

Forms & Worksheets

NOTE: These forms and worksheets are in PDF format. If you need a different format, please contact us at info@aaspire.org.

- **Making an Appointment Worksheet** - This worksheet walks through the steps of making a healthcare appointment. It has lines to write in information that you might want handy while making the appointment. It also has lines to write in information the office staff might tell you, like the day and time of the appointment.
- **What to Bring to a Healthcare Visit Checklist** - This is a checklist you can use when putting together the things you need to bring to a healthcare visit. It has second page with extra things to bring to a first visit, or if you haven't seen your healthcare provider in a long time.
- **Symptoms Worksheet** - This worksheet covers the information healthcare providers usually want to know about symptoms. Not all questions apply to all symptoms. But thinking through some of these questions may help you better describe your symptoms or answer your provider's questions.
- **After the Visit Worksheet** - Your provider may ask you to do something after the appointment. This worksheet has a page for each of the main things your provider may ask you to do:
 - Make a follow-up appointment with your healthcare provider
 - See a specialist or make an appointment with a different healthcare provider
 - Get a lab, x-ray, or other test
 - Take a medication
 - Do something to manage your health condition at home
- **Autism Healthcare Accommodations Tool** - This form will guide you through the steps to create a personalized accommodations letter you can print or save and give to your healthcare provider.

Personalized Accommodations Report


Create an individualized report of ways to improve your healthcare access to give to your healthcare provider.

[Create Your Report](#)

Download Resources

PDF File Downloads
For alternate formats, contact info@aaspire.org

- Forms & Worksheets
- Healthcare
- Staying Healthy
- Your Rights in Healthcare
- Autism Information
- Computer & Internet Access
- All Topics

 **PDF**
SCORP READER

Autism Healthcare Accommodations Tool (AHAT)

- Patient or supporter fills out a survey
- Computer uses answers to create a personalized and healthcare provider-friendly accommodations report

Mobile app coming soon!

www.autismandhealth.org



UID: 2gWYDZB9rq3ntf9k Group: Groups Disabled

Text Only Read Text Aloud

Introduction

How You Communicate

Communication Suggestions

Before the Visit

During The Visit

After the Visit

Getting to Know You

Your Supporters

Sharing the Report

Survey Evaluation

What can help you make good decisions about your health or healthcare?

Pick up to three suggestions.

- Ask me to tell you in my own words what the choices are and what the consequences would be for each one.
- Give me extra time to make a decision, even if it means I need to come back or communicate the decision at a later time.
- Give me very blunt and concrete examples of what would happen if I did or did not follow a recommendation.
- Direct me to detailed information or resources about my health conditions.
- Give a person I trust detailed information about my health conditions and choices.
- Let me discuss my choices with a person I trust.
- I don't need accommodations to make good decisions.
- I need accommodations to make good decisions.
- I do not wish to say.

Back Next Replay

Patient: Dora Raymaker

IV. Recommendations to Assist with Shared Decision Making

- Allow her extra time for making decisions (might involve communicating decision at a later time).
- Be very blunt and give concrete examples of what would happen if a recommendation was or wasn't followed.
- Give a trusted person detailed information about health conditions and choices.
- Allow time for her to discuss choices with a trusted person.

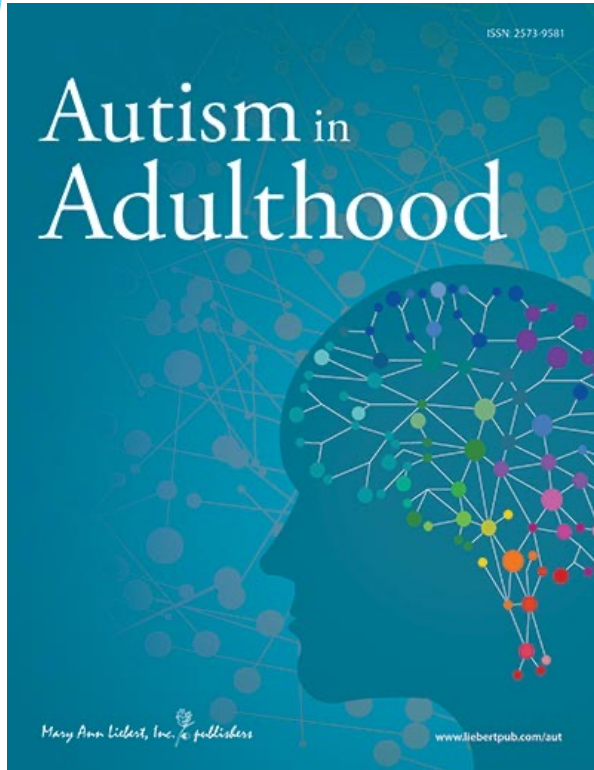
V. Recommendations to Help Ms. Raymaker Comply with Recommendations

- Write out your impressions and the plan for next steps or treatments.
- Write out detailed step-by-step instructions.
- Show pictures as much as possible.
- Show her what to do while she is still in the office.
- Have staff help with scheduling follow-up visits, referrals, or tests.

Dissemination

- ▶ Community partners included on all scientific papers
 - ▶ Strategies to ensure they truly meet authorship criteria
- ▶ Community Briefs, Newsletters, Blogs, Social Media
- ▶ Presentations at scientific and community events
- ▶ Written guidelines from start of project

Inclusion in the Literature



- ▶ Focuses on most pressing issues affecting autistic adults.
- ▶ Editor-in-Chief - Christina Nicolaidis
- ▶ Associate Editor - Dora Raymaker
- ▶ 12 autistic adults on editorial board (and many family members and clinicians)
- ▶ Anti-ableist Language Policy
- ▶ Each manuscript gets traditional scientific peer-reviews AND review by autistic adult
- ▶ Insights section for personal perspectives of autistic adults
- ▶ Approximately 1/3 of articles have included autistic authors so far

www.liebertpub.com/aut

Take Home Points

- ▶ Participatory research with people with communication disabilities is possible.
- ▶ It is very hard work, but it's worth it!
- ▶ Don't pretend to do it if you aren't ready to do the work, and to mess up, and to try harder.
- ▶ It can help strengthen the rigor and impact of research
- ▶ Let's work to ensure all research is respectful, anti-ableist, rigorous, and impactful

Thank you to the AASPIRE Team

- ▶ Co-Directors: Christina Nicolaidis^f and Dora Raymaker^a
- ▶ Steering Committee: Co-directors and Andee Joyce^a, Mirah Sharer, Ian Moura^a, Ericka Fox^a, Anne Kirby, and Whitney Lee^a
- ▶ Community Council: Andee Joyce^a (Chair), Reid Caplan^a, Emanuel Frowner^a, Finn Gardiner^a, Rachel Kripke-Ludwig^a, Julia Love, Joelle Maslak^a, Shannon des Roches Rocha^f, Ivanova Smith^a, Furra Wallington^a, and Zack Siddeek^a
- ▶ Academic Council: Christina Nicolaidis^f, Dora Raymaker^a, Katherine McDonald, Clarissa Kripke^f, Steven Kapp^a, Anna Urbanowicz, Anne Kirby
- ▶ Additional Outcomes Project Co-Investigators: Julie Lounds Taylor, Mary Baker-Ericzen, Willi-Horner Johnson, Todd Edwards, Lui-Qin Yang
- ▶ Additional Outcomes Project Staff: Joseph Vera, Patrick Bowden, Madeline Proctor^a

And thank you to all our other new and former AASPIRE team members, the Autistic Self-Advocacy Network, the Autism Society of Oregon, and all our study participants

AASPIRE Funding

- ▶ National Institute of Health
 - ▶ R01MH121407 (Outcomes), R34MH092503 (Healthcare Toolkit Development), R34MH111536 (Healthcare Toolkit Integration), R21MH112038 (Employment), R01HD105655 (Pregnancy App) R21HD078830 (Pregnancy Qual), K23MH123934 (Suicide Prevention)
- ▶ The Centers for Disease Control (Partnering Project)
- ▶ Institutional
 - ▶ NIH via OCTRI (CTSA - UL1 RR024140) for pilot-funding, KL2TR002370 (institutional training award for Dr. Raymaker); NIH BUILD EXITO support for pilot funds and research assistants; Portland State University and OHSU (Burnout), the Burton Blatt Institute (Wellbeing)
- ▶ Foundations:
 - ▶ Fulbright Foundation (Hospital) and the Medical Research Foundation (Employment Measurement)

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