

(Psychosocial Impact of Assistive Devices Scale)

# **USER MANUAL**



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# **Authors and Acknowledgments**

Robert Cunningham, PhD, OT/L, FAOTA

The following graduate student research projects have all contributed to the development of the Children PIADS.

## "Impact of Assistive Technology Devices on Quality of Life: A Child-Parent Perspective"

- Maryville University Master's of Occupational Therapy Program 2014 Audra Dillingham, Jamie Laschke, Kelly Reinkemeyer, Michelle Scott, & Abigail Stahlschmidt

# "Response Format and Terminology for a Children's Version of the Psychosocial Impact of Assistive Devices Scale (PIADS): A Preliminary Study"

- Maryville University Master's of Occupational Therapy Program 2015 Rebecca Morris, Lauren Seiler, Sarah Throm, Carly Watters, & Kelsey Wolken

### "Psychosocial Impact of Assistive Devices Scale for Children: A Pilot"

- Maryville University Master's of Occupational Therapy Program 2016 Kaitlin Bethel, Megan Moldenhauer, Amanda Rzepczynski, Della Spratt, & Micaela Surdyke

### "The Effect of Wheeled Mobility Devices on Children"

- Maryville University Master's of Occupational Therapy Program 2017 Marissa Bonney, Nadia Dawod, Amanda Lappe, Julia O'Brien, Sarah Pollock, & Lindsey Schweppe

### "The Impact of Assistive Technology on Students to Aid the Process of Writing"

- Maryville University Master's of Occupational Therapy Program 2018 Shea Gabehart, Alyssa Haas, Alyx Holshouser, Allison Kennedy, Nicole Pruett, Elizabeth Rohde, & Natalie Witte

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# Description of the Children's PIADS

The Children's PIADS, is a 15-item self-report questionnaire that utilizes a five point Smiley Face Likert-type scale and short phrases to assess the constructs of Competence, Adaptability, and Self-esteem. Please refer to Appendix 1 to see a full version of the Children's PIADS.

The Competence subscale is composed of 7 items that evaluate feelings of competency and efficacy through items related to productivity, usefulness, performance, and independence.

The Adaptability subscale includes 3 items that indicate a willingness to take risks and socially participate through items regarding ability to participate, willingness to take chances, and eagerness to try new things.

Self-esteem, the third subscale, includes 5 items that indicate feelings of emotional health and happiness through items related to security, sense of power, control, and self-confidence.

The Children's PIADS is an outcome measure that provides the assistive technology provider with the child's perspective of how the assistive technology is impacting them. This can be used to guide decisions on whether to continue use, try something else or stop assistive technology use.

### Who Recommends Assistive Technology:

A variety of professionals work in the area of assistive technology. Occupational therapists, special educators, speech and language pathologists, and physical therapists are professionals who typically work in this area. Any individual associated with the process of providing assistive technology to children may utilize the Children's PIADS to assess the impact of the assistive technology.



## Need and Rationale for the Children's PIADS

Assistive technology (AT) is defined as "devices, services, or strategies used to increase, maintain, or improve the functional capabilities of individuals with disabilities" (Assistive Technology Act of 1998). It is estimated that 49% of children with special health care needs would benefit from the use of assistive technology devices (ATDs) (Benedict & Baumgardner, 2009). The use of ATDs is a recognized approach for compensating for the deficits of children and adults with disabilities and increasing their independence (Scherer & Glueckauf, 2005). ATDs provide children with disabilities the opportunity to interact with their environment in an age appropriate manner and facilitate their ability to socialize, play, and actively participant in daily life (Nicolson, Moir, & Millsteed, 2012; Hemmingsson, Lidstrom, & Nygard, 2004).

Outcome measures reflect the changes that ATDs produce in the lives of users and their environments and provide assistive technology professionals the opportunity to assess the impact of their services Lenker, Harris, Taugher, & Smith, (2013). Jutai, Fuhrer, Demers, Scherer & DeRuyter (2005) proposed a taxonomy for classifying ATD outcomes from three vantages: effectiveness, social significance, and subjective well-being. Effectiveness includes measures that assess the impact of ATDs on a user's functioning. Social significance includes the viewpoints that society has regarding AT devices including measures of cost and device utilization. Subjective well-being refers to the user's evaluation of how the ATD has affected their life (Jutai et al.). Viewing outcomes from this perspective illustrates the range of outcomes that can be assessed and the varying levels of importance that each may have to different stakeholders. Recognizing the variety of ATD outcomes that can be assessed and the implications of each speaks to the importance of implementing outcome measures that address the broadest range of measures possible to establish the effects of implementing ATDs (Jutai et al.).

An improvement in subjective well-being of an ATD user, as an outcome measure by itself, does not validate effectiveness but does contributes to the overall understanding of the ATD user's experience and satisfaction. Measures of subjective well-being include cognitive and affective assessments of how ATDs affect the life of the user (Fuhrer, 2000). Cognitive assessment is a measure of the user's satisfaction with a device from a number of perspectives while affective assessment evaluates the ability of ATDs to impact or influence subjective quality of life (QOL) (Fuhrer, 2000; Jutai, Fuhrer, Demers, Scherer, & DeRuyter 2005). QOL as it relates to ATDs is the user's assessment of the degree an ATD improves their ability to enjoy the important possibilities of their life (Renwick, Brown, & Raphael, 1994). Satisfaction with an AT device is a measure of the realities of using the device compared to the expectations and needs for the device. Satisfaction with an ATD is often reflected by the frequency with which an individual uses their device. Past studies indicate that negative perceptions of a device can lead to its abandonment, regardless of whether the device improves function and accessibility (Hemmingsson, Lidstrom, & Nygard, 2004; Riemer-Reiss, Wacker, 2000; Craddock, 2006). A



study investigating quality of life, self-esteem, and satisfaction with ATDs in students with disabilities found that although ATDs effectively improved function and accessibility, it left them with a sense of exclusion from their peers (Craddock, 2006). In a similar study of students using assistive technology for school related activities, researchers found that students demonstrated increased independence when using their AT devices but chose not to use them due to a perceived negative impact on their relationships with peers (Hemmingsson, Lidstrom, & Nygard, 2004).

While the literature supports the use of ATD's to contribute to increased function in children, little is known regarding how children perceive the impact these devices have on their subjective well-being. A factor contributing to this limited knowledge is the lack of ATD outcome measures designed for children to assess subjective well-being, particularly QOL. An adult outcome measure that does assess the impact of ATDs on QOL is the Psychosocial Impact of Assistive Devices Scale (PIADS) (Jutai & Day, 2002). The PIADS is a 26 item self-report questionnaire designed to measure the effects that an ATD has on functional independence, well-being, and QOL. It consists of three subscales: Competence, Adaptability, and Self-esteem (Jutai & Day). The PIADS was used as a model for the development of this instrument with the goal of aligning the constructs measured in adults with the language and unique perspective of children.



# Development of the Children's PIADS

The Children's PIADS was developed over a six year period by five separate groups of occupational therapy graduate students and their research mentor Dr. Robert Cunningham. The initial study determined that the constructs associated with the PIADS were appropriate for children (Cunningham, Dillingham, Laschke, Reinkemeyer, Scott, & Stahlschmidt, 2014). The second study attempted to determine an appropriate response format and terminology for children (Cunningham, Morris, Seiler, Throm, Watters, & Wolken, 2015). Their findings provided the framework for the development of the Children's PIADS which was administered to children who wore eyeglasses or contact lenses to establish the instruments psychometric properties (Cunningham, Bethel, Moldenhauer, Rzepczynski, Spratt, & Surdyke, 2016). The final two groups (Cunningham, Bonney, Dawod, Lappe, Pollock, & Schweppe, 2017; Cunningham, Gabehart, Haas, Holshouser, Kennedy, Pruett, Rohde, & Witte, 2018) administered the Children's PIADS to children who used wheelchairs and assistive technology to aid with writing to further determine its psychometric properties.



# **Psychometric Properties of the Children's PIADS**

Data from three different research groups administration of the Children's PIADS was combined to assess the reliability and validity of the tool's three constructs at time one (T1) and time two (T2). There was strong internal consistency among all constructs at T1 and T2. Cronbach's alpha scores for all constructs were reliable at or above the .7 level (Table 1). This indicates that questions under each construct are closely related to one another and accurately measure that construct. The Pearson correlation coefficient determined that test-retest reliability of the Children's PIADS was significant at the 0.88 level, meaning that the tool has the capability to produce consistent results across administrations.

Constructs	T1	T2
Competence	.78	.87
Adaptability	.75	.86
Self-Esteem	.81	.89

 Table 1

 Cronbach's alpha scores for the constructs competence, adaptability, and self-esteem at T1 and T2.



## Administration Instructions for the Children's PIADS

### **Introductory Script:**

(The examiner shall read this short introduction regarding the scale to the child in which they are administering the Children's PIADS on.)

"The questions you are about to answer will ask you how you feel about the technology that helps you with \_\_\_\_\_ (e.g. writing, reading, navigating the community). There are 19 questions total and they should take about five to ten minutes to answer. Try to answer them as honestly as possible about how you are affected by using your technology, **not** how you want to be affected."

# What to say if they don't want to answer a question or if they don't know how to answer a question:

If the child does not know how to answer the question, prompt them with the examples on the following page. If he/she still does not know how to respond to a question or refuses to answer, move on to the next question. If the child shows signs of distress when answering a question, inform them that he/she does **not** have to answer that question.

#### Additional Information:

- Children may respond to these questions using technology, stating answers, or pointing to answers.
- There are 15 questions with 5 options for each response, the child should choose only one answer per question.



# **Example Script for Each Item**

(The examiner should ONLY utilize these examples if the child does not know how to answer an item, or does not understand what an item is asking. As the examiner, you may use these prompts to help the child understand the item in different terms. Read the following prompts exactly without additional wording or information.)

- **1. Makes it easier for me to do things:** Does your technology make it easier for you to do things that were difficult, or that you were unable to do without using this technology?
- **2. Allows me to show my talents:** Does your technology help you show others what you are good at?
- **3. Lets me do more things:** Does your technology let you do things that were difficult for you to do, or that you were unable to do without using this technology?
- **4. Helps me do things well:** Does your technology help you do things that were difficult for you to do, or you were unable to do without using this technology?
- 5. Makes me feel safe: Does your technology help you feel comfortable in everyday activities?
- **6. Helps me feel okay:** Does your technology help you feel good with the way you do things?
- **7. Gives me hope:** Does your technology help you believe you can complete the activities you want to do?
- **8. Helps me do things on my own:** Does your technology help you do things without the help from another person that were difficult for you to do, or that you were unable to do by yourself without using this technology?
- **9. Makes me want to try new things:** Does your technology push you to try things that may have been difficult for you to try, or that you were unable to try without the use of this technology?
- **10. Makes me feel happy:** Does using your technology help you to be in a good mood?
- **11. Helps me feel in control:** Does your technology help you be in charge of your everyday activities?
- 12. Is helpful to me: Does your technology help you do your everyday activities?



- **13. Makes me feel good about myself:** Does your technology allow you to feel happy about yourself?
- **14. Makes my life better:** Does your technology make life enjoyable?
- **15. Helps me try new things:** Does your technology help you start things that may have been difficult for you to try, or unable to try without the use of this technology?



# Scoring the Children's PIADS

After the Children's PIADS has been completed, convert the child's responses into a numerical value by following the steps below and filling out the scoring sheet. See **Appendix 2** for the scoring sheet. For further information, see the example Children's PIADS with scoring sheet in **Appendix 3**.

Likert-Type Smiley Scale Response	Score
"Never"	1
"Almost Never"	2
"Sometimes"	3
"Almost Always"	4
"Always"	5

To fill out the scoring sheet, circle the response's numerical value in correspondence with the correct item number. \*Be careful, items are not in numerical order on the scoring sheet - they are listed within the construct they measure. Be sure to circle the correct numerical response with the correct item number.

After you convert the Likert-type Smiley Face Scale answers into numerical response, add each score together to get an overall score.

You may also add up the numerical responses for questions within each construct (Competence, Adaptability, and Self-Esteem) of the Children's PIADS:

- The Competence subscale is derived by adding the values corresponding to items 1, 2, 3, 4, 8, 12, and 14
- The Adaptability subscale is derived by adding the values corresponding to items 6, 9, and 15
- The Self-Esteem subscale is derived by adding the values corresponding to items 5, 7, 10, 11, and 13



# Interpreting the Children's PIADS Scores

After you have converted the Likert-type Smiley Face Scale answers into numerical responses on the scoring sheet, you can analyze the overall scores to determine the psychosocial impact of the assistive device.

## Interpreting score by construct:

## **Competence**

- Highest Possible Score: 35

- Lowest Possible Score: 7

- 7-13 Poor

- 14-20 Fair

- 21-27 Good

- 28-35 Excellent

### <u>Adaptability</u>

Highest Possible Score: 15

- Lowest Possible Score: 3

- 3-5 Poor

- 6-8 Fair

- 9-11 Good

12-15 Excellent

#### Self-Esteem

Highest Possible Score: 25

- Lowest Possible Score: 5

- 5-9 Poor

- 10-14 Fair

- 15-19 Good

- 20-25 Excellent

### Interpreting overall score:

Highest Possible Score: 75

- Lowest Possible Score: 15

- 15-29 Poor

- 30-44 Fair

- 45-59 Good

- 60-75 Excellent



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## Appendix 1 - Children's PIADS Tool

		Childr	en's F	PIADS	6
				ve Devices Scale)	
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	Section of the section of the section of	device/software th	the state of the s	use your technolog	<i>y</i> .
2000	easier for me		ut you use:		
1) Makes It	easier for file	to do dinigs			
	$\odot$	3	$\stackrel{\bullet \bullet}{\bigcirc}$	٩	$\stackrel{\circ}{\circ}$
	Never	Almost Never	Sometimes	Almost Always	Always
2) Allows m	e to show my	talents	_		
	$\odot$	$\odot$	<b>@</b>	$\odot$	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
3) Lets me d	lo more thing	s			
	$\odot$	<b>e</b>	<u></u>	$\odot$	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
4) Helps me	do things we	11			
	$\odot$	$\odot$	<b>@</b>	$\odot$	$\odot$
	Never	Almost Never	Sometimes	Almost Alwavs	Always
5) Makes me	e feel safe	_	_		
	$\odot$		<b>•</b>	$\odot$	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
6) Helps me	feel okay	_	_		
		$\odot$	<u></u>	$\odot$	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
7) Gives me	hope	_		_	
		$\odot$		$\odot$	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
8) Helps me	do things on	my own	_		_
	$\odot$			$\odot$	
	Never	Almost Never	Sometimes	Almost Always	Always

9) Makes me	want to try	new things	523	70 mm	
	(3)	$\odot$		9	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
10) Makes m	ne feel happ	у		ы	
	$\odot$	(2)		9	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
11) Helps m	e feel in con	trol		221.0	
	$\odot$	(2)		9	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
12) Is helpfu	ıl to me	_		100	
	$\odot$			<b>9</b>	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
13) Makes m	ne feel good	about myself			
	$\odot$	$\odot$	$\stackrel{\bullet \bullet}{ \bigcirc}$	<b>(</b>	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
14) Makes m	ny life better		152.7	92.5	
	$\odot$	<b>©</b>	$\odot$	9	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
15) Helps m	e try new th	ings		2.1	
	$\odot$	$\odot$		9	$\odot$
	Never	Almost Never	Sometimes	Almost Always	Always
6. How often de	o you use you	technology?	18. H	ow do you feel about the	e technology?
3-5 days a wee	ek			te it	
1-2 days a wee	ek		□ It's	ок	
Less than one	day a week		□Ido	on't like it	
7. How much a echnology?	ssistance do y	ou require to use your	19. D	o you want to continue	using your technology?
None - I use it	on my own		□ May		
Some - I use it	with some he	lp	□ No	10000	
A lot - Someon	ne helps me us	e it			



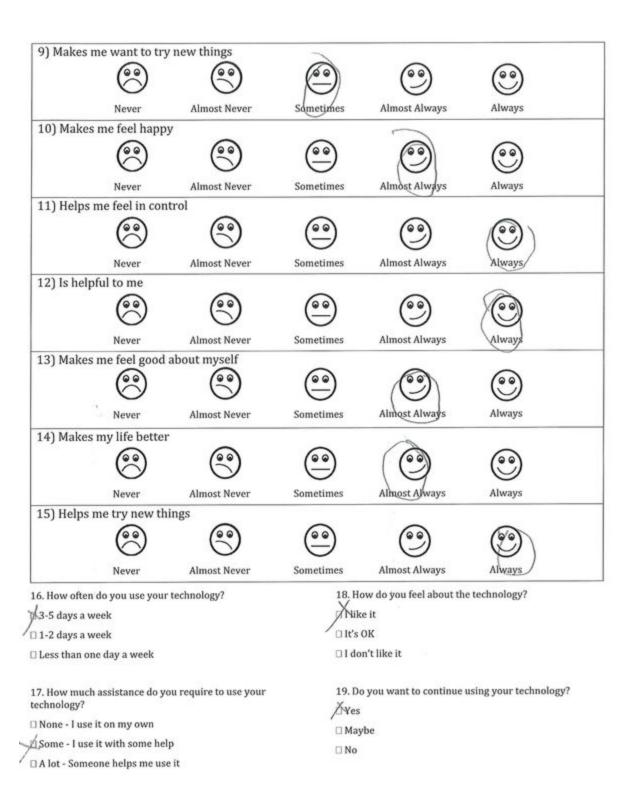
Appendix 2 - Children's PIADS Scoring Sheet

Name:			Date:		
	"Never"	"Almost Never"	"Sometimes"	"Almost Always"	"Always"
COMPETENCE					
Item 1	1	2	3	4	5
Item 2	1	2	3	4	5
Item 3	1	2	3	4	5
Item 4	1	2	3	4	5
Item 8	1	2	3	4	5
Item 12	1	2	3	4	5
Item 14	1	2	3	4	5
Competence To	tal:				
ADAPTABILITY					
Item 6	1	2	3	4	5
Item 9	1	2	3	4	5
Item 15	1	2	3	4	5
Adaptability To	tal:				
SELF-ESTEEM					
Item 5	1	2	3	4	5
Item 7	1	2	3	4	5
Item 10	1	2	3	4	5
Item 11	1	2	3	4	5
Item 13	1	2	3	4	5
Self-Esteem To	tal:				
TOTAL from the	3 Constructs:				



## Appendix 3 - Example of Children's PIADS with Scoring

		Childre	en's F	PIADS		
		Psychosocial I	mpact of Assistiv	e Devices Scale		
Name:	1 5-18	_			Age:7 Gender:/M/ F	
		that matches how	you feel when you	use your technolo	gy.	
Please list	the technology	device/software th	nat you use:	ca-writer		
	t easier for me		1000000		5-72-831	
		<b>9</b>		$\odot$	<b>(9)</b>	
	Never	Almost Never	Sometimes	Almost Always	Always	
2) Allows r	me to show m	y talents			· ·	
				$\odot$		
	Never	Almost Never	Sometimes	Almost Always	Always	
3) Lets me	do more thin	gs	_	~		
					$\odot$	
	Never	Almost Never	Sometimes	Almost Always	Always	
4) Helps m	e do things w	ell	227222222			
	$\odot$	$\odot$		<b>(9)</b>	$\odot$	
	Never	Almost Never	Sometimes	Almost Always	Always	
5) Makes n	ne feel safe	_	_	61		
					$\odot$	
	Never	Almost Never	Sometimes	Almost Always	Always	
6) Helps m	e feel okay			03022		
	$\odot$			9	@	
	Never	Almost Never	Sometimes	Almost Always	Always	
7) Gives me	e hope			2		
		$\odot$			$\odot$	
	Never	Almost Never	Sometimes	Almost Always	Always	
8) Helps m	e do things on	my own		92.419	2	
		<b>e</b>		9	(1)	
	Never	Almost Never	Sometimes	Almost Always	Always	





	"Never"	"Almost Never"	"Sometimes"	"Almost Always"	"Always"
COMPETENCE					
Item 1	1	2	3	4	(5)
Item 2	1	2	3	4	(5)
Item 3	1	2	3	4	5
Item 4	1	2	3	4	5
Item 8	1	2	3	4	(5)
Item 12	1	2	3	4	(5)
Item 14	1	2	3	4	5
ADAPTABILITY		Y			
H C		•	3		
tem 6	1 1 1	2	1 3	4	(5)
- CC	1 1	2		4	5
Item 9	1 1	2	3	4	5
tem 9	1 1	2			
Item 9	1 1	2	3	4	5
tem 9 tem 15 Adaptability To	1 1	2	3	4	5
tem 9 tem 15 Adaptability To	1 1	2	3	4	5
tem 9 tem 15 Adaptability To SELF-ESTEEM tem 5	1 1 tal: 13 (excener	2 2	3 3	4	5
tem 9 tem 15 Adaptability To SELF-ESTEEM tem 5 tem 7	1 1 tal: 13 (excener	2 2 1+)	3 3	4 4	5 (5)
tem 9 tem 15 Adaptability To SELF-ESTEEM tem 5 tem 7	1 1 13 (excense)	2 2 2 2	3 3 3 3	4 4 4 4 4	5 ⑤
tem 9 tem 15 Adaptability To SELF-ESTEEM tem 5 tem 7 tem 10 tem 11	1 1 13 (excense)	2 2 1t)	3 3 3 3 3	4 4 4 4 4 4	5 ⑤ 5 5
Item 6 Item 9 Item 15 Adaptability To SELF-ESTEEM Item 5 Item 7 Item 10 Item 11 Item 13 Self-Esteem To	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1+)	3 3 3 3 3	4 4 4 4 4 4	5 ⑤ 5 5 5 (6)

