





Digital Technology Use in Art Therapy with Adults with Developmental Disabilities (Darewych, Cariton, & Farrugie, 2015) Research Design: Qualitative Phenomenological Art-Based Study Qualitative research truly captures individuals with disabilities experiences (O'Day & Kileen, 2002). Digital Technology Use in Art Therapy with Adults with Developmental Disabilities (Darewych, Cariton, & Farrugie, 2015) Primary Research Questions: How do adults with DD experience digital art-making in art therapy? How do adults with DD sense digital technology as an art medium and a clinical intervention tool? Secondary Question: Which art-making and creative activity applications are most suited for adults with DD Digital Technology Use in Art Therapy with Adults with Farrugie, 2015) N=8 adules with ASD, DS, DD wVI Gender, 50% M 5 1-hr min yeard some structured DAI ressions Checken feetings, warming exercise AT menyemion, checken feetings

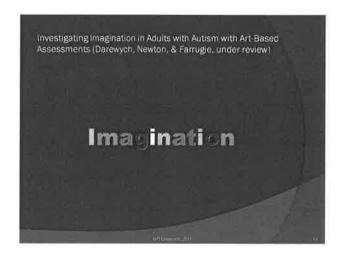
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Digital Technology Use in Art Developmental Disabilities (D 2015)	Therapy with Adults with arewych, Carlton, & Farrugle,	P===		
ArtRageFreshPaint	A Sticker Tale CreationPuzzle Touch Jigsaw			
MandalasSand Art	Puzzle Number Link GSKids! Shapes and	-		341
Zen Brush	Colors			
Art Making Apps	Creative Activity Apps			
600	-			
Results – Emerg	ging Themes	_		
A simple and mess-fIndependence	ree digital canvas			
 Interplay of digital art Computer skills and 		<u> </u>		
development Voice and vision				
Digital art directives				
\$90km	weater			
Technology		_		
 Mess-free creative process with clean canvas - Multiple image production 	 Stylus tools not detailed oriented Fragile devices, limited 	_		
 Portable art box Multimedia options Windows 8 PC - password 	to gentie creative processes	-		
protected folder Long-term cost effective	 Apps not compatible with all platforms Quick and easy image 			
Advantages	deletion Disadvantages			

Future Research Recommendations
Best suited for Individuals with high sensory sensitivity on the autism spectrum
Large 19-23 - Windows Scompule:
Printer available for instant printing
Explore, imaginative thinking skills in Individuals with ASD
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Digital Art Therapy Project 2017
Participants N = 14
Project Theoretical Approach Person-centred and strength-based approaches
Project Goals To strengthen individuals creative, imaginative thinking, executive function, and symbolic skills
Procedures Three 12-week two hour semi-structured group digital art therapy sessions (Group 1: Jan-Mar, Group 2: April-June; Group 3: Sept-Nov).
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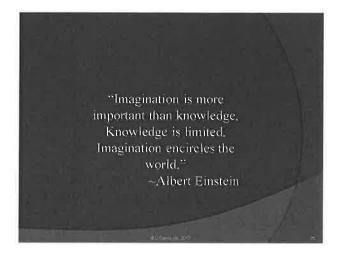
Investigating Imagination in Adults with Autism with Art Based Assessments (Darewych, Newton, & Farrugic, under review)

According to Jung, imagination is a complex cognitive construct that involves an individual's ability to create mental images of people, places, and objects that are not present to their senses (Chodorow, 1997).

Investigating imagination in Adults with Autism with Art Sased Assessments (Darewych, Newton, & Farrugie, under review) Primary Research Questions: Will adults with ASD depict and describe symbols in their drawings not present to their senses? Will adults with ASD generate more non-social (places and objects) than social (self and people) symbols in their drawings?	
Investigating Imagination in Adults with Autism with Art-Based Assessments (Darewych, Newton, & Farrugle, under review) Method	
Sample 9: N = 14 adults with medium- to high-functioning maisin. Mage = 27.7	
Receased Design Mixed-method study with an intersenter agreement, art-based study Procedure	
Single 1-br instructed study session using traducional and signal media Scribble Drawing (Gane, 1951). Brinden Drawing with 7th (BDP, Carrework, 2013, 2014). Future Tile Drawing (Gennami, 1986).	
Data SPSS - Cohen's Kappa for inter-rates analysis Thematic analysis of session progress notes and written associations	
20thorn XJBIV	
Investigating imagination in Adults with Autism with Art-Sased Assessments (Darewych, Newton, & Farrugie, under review)	
Scrioble Drawing Results Mountains All participants created a Scrioble Drawing 79% of participants	
developed their abstract scribble hon-social symbol 50% by participants meanuring scribble lines directly embodied symbols 65% by participants choose to create their Scribble brawing on the digital fouchscreen device.	
Nurraine Thomas Concrete symbols	

Investigating imagination in Adults with Autism with Art-Based Assessments (Darewych, Newton, & Farrugie, under review)	
 64% of participants depicted a simple bridge symbol or a path symbol in their BDP but not both. 86% completed the BDP leading to a goal-oriented endpoint (e.g., art program, city, home). Narrative Inernes: local bridge and famous bridge 	
Investigating Imagination in Adults with Autism with Art-Based Assessments (Darewych, Newton, & Farrugie, under review) Future Trip Drawing Results	
Investigating Imagination in Adults with Autism with Art-Based Assessments (Darewych, Newton, & Farfugle, under review) Results Participants in this study generated more concrete non-social symbols representing real places and objects from their world than social symbols in their drawings. This study finding supports the loea that adults with ASD have unique imaginative and drawing abilities, and that their imagination may be restricted when drawing tasks include social content (Allen & Craig, 2016; Ten Eycke & Muller, 2015). Since the concrete symbols created by participants were not explicitly visible to the raters until they read the narrative associated with each Scribble Drawing, it is important that researchers and climicians specifically request individuals with ASD to express the symbolic content of their drawings verbally or in writing.	

Investigating Imagination in Adults with Autism with Art Based Assessments (Darewych, Newton, & Farrugie, under review)	
Results	
 The BDP results validate the notion that some individuals with ASD have executive function difficulties' particularly with sequencing and planning memory skills (Hill, 2004). The BDP results emphasize the importance for clinicians to design. 	
emphasize the importance for clinicians to design clinical treatment plans that take into account the maintenance and development of executive function	
in adults with ASD. The three art-based assessments with supporting written and verbal narrative associations can be	
considered as effective creative methods to measure imagination and symbolic development in adults with ASD.	
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Investigating imagination in Adults with Autism with Art Based Assessments (Darewych, Newton, & Farrugle, under review)	
Future Research Recommendations Most participants chose to create their	
Scribble Drawing and Future Trip Drawing on the touchscreen digital canvas rather than with the traditional art materials. This study finding	
calls for further studies in our current digital age that examine technology as a new	
creative media in clinical settings The authors hope that the results of this study will inspire future art-based assessment	<u>- </u>
research investigating imagination, symbolic development, and executive function abilities in adults with ASD.	
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Key Message	·
People with ASD and other developmental	
disabilities have unique creative talents and visual imaginative abilities. Thus	8
professionals should implement arts programs for people with developmental	
disabilities to maintain their active imagination and further develop their	0
creative and executive function faculties	



References	
See Directed, O.F., Cuttin, N.R., & Farrogie, K.W. (2015). Digital technology are in an Herizov with adults with developmental doublidities. <i>Journal on Developmental Doublidities</i> , 21(2), 98-102. See Directed, O.F., Newton, N., & Farrogie, K.W. (moder tevers). Investigating imagination of adults with authors with art based assessments.	
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Thank-you.	
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