







- · I will be showing videotaped segments of children and their caregivers, as part of our research project
- I ask that you do not take pictures of these recordings, due to the content involved and that the children and caregivers constitute a vulnerable population

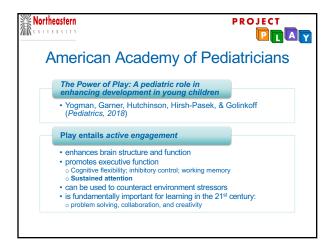
8



data-based intervention

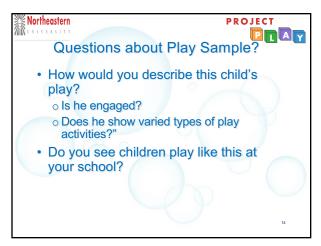
o through analysis of case examples

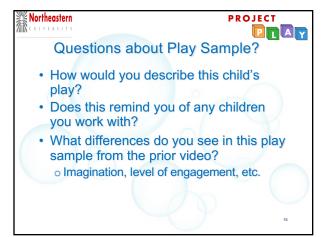








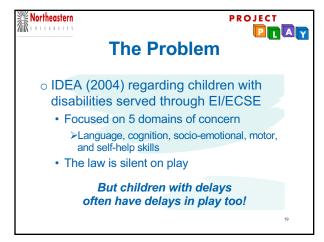


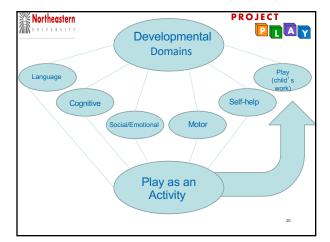








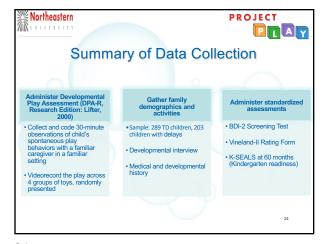


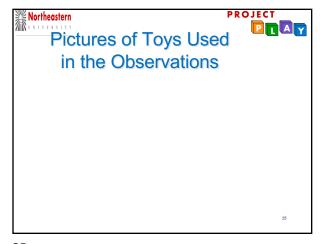












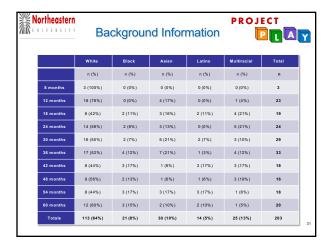


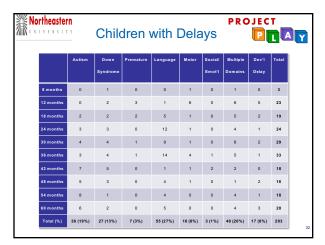




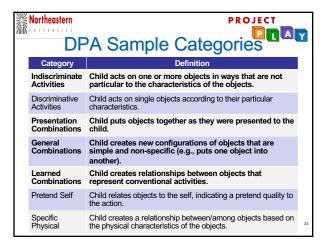


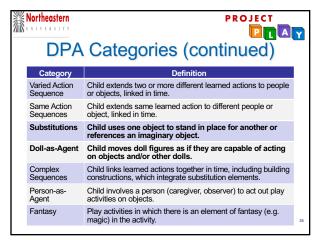
ortheast	• • • • • • • • • • • • • • • • • • • •								PR	103	CT
	Tab	ole 1	. Ba	ackg	rou	nd T	D C	Child	ren		
	w	hite	В	lack	A	sian	La	itino	М	ixed	Total
	n	(p)	n	(p)	n	(p)	n	(p)	n	(p)	n
months	22	(.59)	7	(.19)	4	(.11)	1	(.03)	3	(.08)	37
2 months	26	(.72)	2	(.06)	2	(.06)	2	(.06)	4	(.11)	36
8 months	28	(.67)	2	(.05)	2	(.05)	1	(.02)	9	(.21)	42
4 months	19	(.73)	1	(.04)	1	(.04)	1	(.04)	4	(.15)	26
0 months	22	(.81)	1	(.04)	1	(.04)	0	(0.0)	3	(.11)	27
6 months	18	(.75)	0	(0.0)	2	(80.)	2	(80.)	2	(.08)	24
2 months	17	(.65)	2	(80.)	1	(.04)	1	(.04)	5	(.19)	26
8 months	20	(.77)	2	(80.)	2	(80.)	1	(.04)	1	(.04)	26
i4 months	19	(.90)	1	(.05)	0	(0.0)	0	(0.0)	1	(.05)	21
0 months	12	(.50)	0	(0.0)	5	(.21)	0	(0.0)	7	(.29)	24
otals	203	(.70)	18	(.06)	20	(.07)	9	(.03)	39	(.13)	289



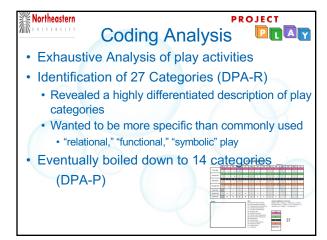


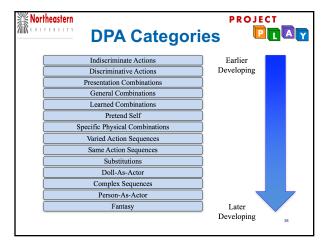


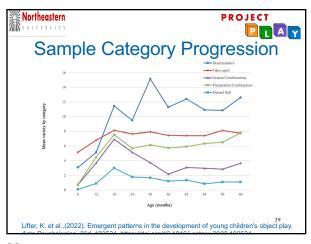


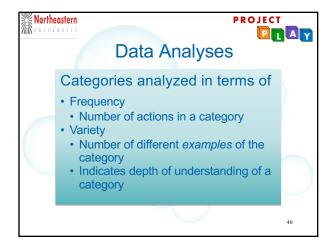


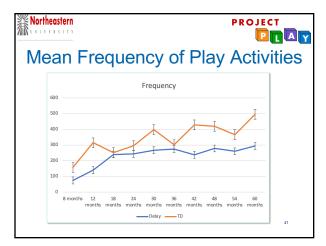


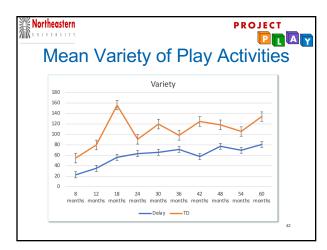


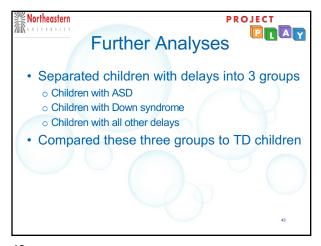


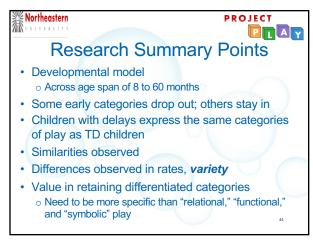




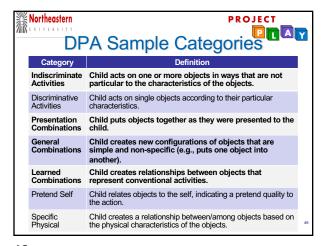


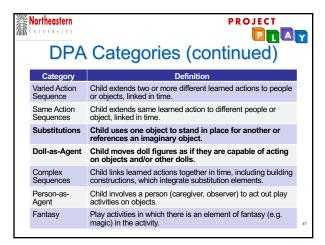


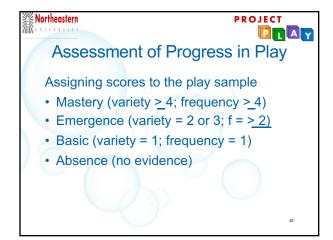


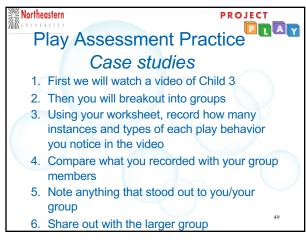


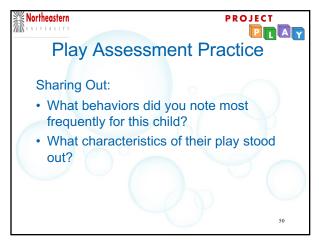


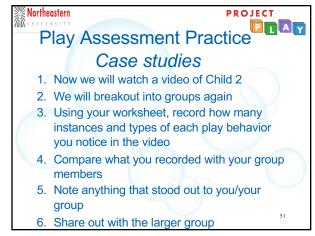


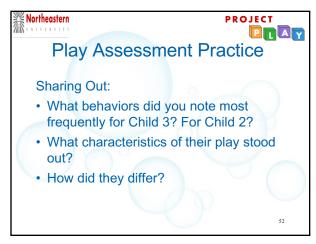






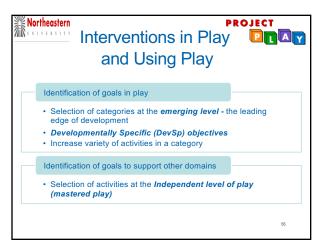




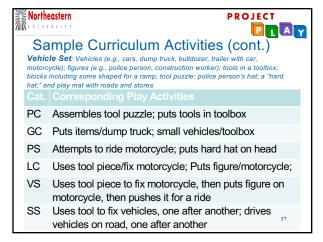


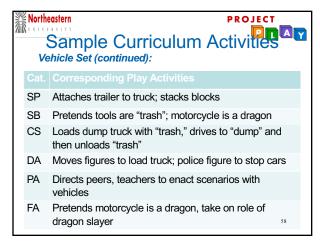
Summary Profiles PROJECT 42-month old Children										
	Total Frequency = 263 Total Variety = 24			Total Frequency = 217 Total Variety = 67			Total Frequency = 386 Total Variety = 119			
	Variety	Freq.	Status	Variety	Freq.	Status	Variety	Freq.	Status	
Discriminative Activities	6	100	М	10	33	М	12	47	М	ı
Presentation Combinations	7	71	М	4	16	М	4	19	М	ı
General Combinations	3	48	Е	6	22	М	9	30	М	ı
Learned Combinations	3	20	Е	20	85	М	24	136	М	ı
Varied Action Sequences	3	19	Е	10	23	М	13	22	М	ı
Same Action Sequences	0	0	Α	0	0	А	1	1	В	
Pretend Self	0	0	Α	3	7	E	0	0	А	ı
Specific Physical	1	3	В	3	9	Е	4	19	М	
Substitutions	0	0	Α	7	14	М	23	50	М	ı
Doll-as-Actor	1	2	В	3	4	E	9	21	М	
Complex Sequences	0	0	Α	0	0	А	18	39	М	ı
Person-as-Actor	0	0	Α	1	4	В	2	2	E	ı
Fantasy	0	0	Α	0	0	Α	0	0	А	

Two 60 month-old children								
		ypically oping (Child with Autism				
	Variety	Freq.	Status	Variety	Freq.	Status		
Discriminative Activities	8	17	М	16	56	М		
Presentation Combinations	5	13	М	9	61	М		
General Combinations	1	1	Α	5	6	Е		
Learned Combinations	21	59	М	15	41	М		
Specific Physical	2	6	Е	5	22	М		
Varied Action Sequences	5	5	Е	15	21	М		
Substitutions	8	17	М	9	14	М		
Doll-as-Actor	16	55	М	14	21	М		
Complex Action Sequences	8	16	М	0	0	Α		
Person-as-agent	9	26	М	0	0	Α		
Fantasy	2	16	E	1	11	А		

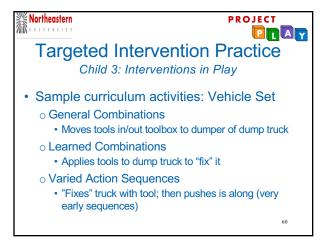


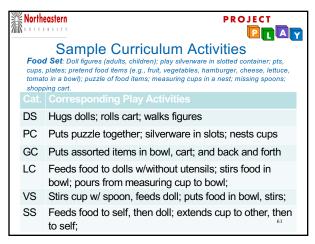


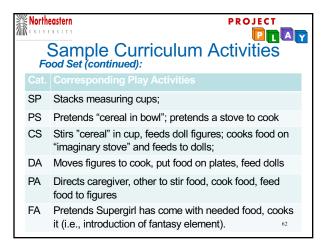




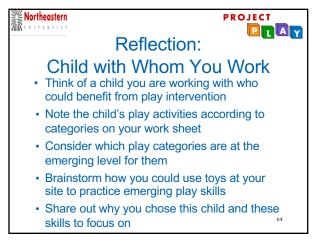




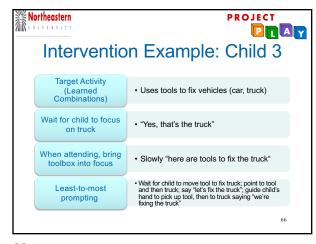




Northeastern UNIVERSITY				Intervention PLAY ce Child 2 • Which play categories
	Variety	Freq.	Status	 Which play categories would you target for intervention for this child?
Discriminative Activities	10	33	м	 Which intervention activities
Presentation Combinations	4	16	М	would you suggest using the food set?
General Combinations	6	22	М	
Learned Combinations	20			Food Set: Doll figures (adults,
Varied Action Sequences	10	23	М	children); play silverware in slotted container; pots, cups, plates;
Same Action Sequences	0	0	А	pretend food items (e.g., fruit,
Pretend Self	3	7	E	Food Set: Doll figures (adults, children), play silverware in slotted container, pols, cups, plates; pretend food items (e.g., fruit, vegetables, hamburger, cheese, leffuce, formato in a bowl); puzzle of hood items; measuring cups in a
Specific Physical	3	9	E	riest, missing spoons, snopping
Substitutions	7	14	М	cart.
Doll-as-Actor	3	4	E	Specific Physical: stack measuring cups
Complex Sequences	0	0	A	90
Person-as-Actor	- 1	4	В	Doll-as-Actor: Moves figures to cook
Fantasy	0	0	A	63





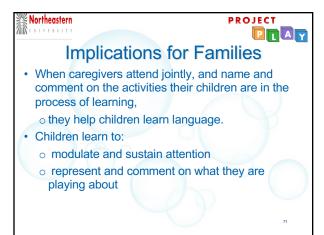




















Northeastern PROJECT Selected References PLAY

- Barton, E. E. (2015). Teaching generalized pretend play and related behaviors to young children with disabilities. Exceptional Children, 81 (4), 489—506.
- Barton, E. E. & Wolery, M. (2008). Teaching pretend play to children with disabilities: a review of the literature. Topics in Early Childhood Special Education, 28, 119-25.
- Belsky, J., & Most, R. K. (1981). From exploration to play: A cross-sectional study of infant free-play behavior. Developmental Psychology, 17, 630–639. https://doi.org/ 10.1037/0012-1649.17.5.630
- Campbell, S. B., Leezenbaum, N. B., Mahoney, A. S., Moore, E. L., & Brownell, C. A. (2016). Pretend Play and Social Engagement in Toddlers at High and Low Genetic Risk for Autism Spectrum Disorder. *Journal of Autism and Developmental Disorders*, 46(7), 2305–2316. https://doi.org/10.1007/s10803-016-2764-y
- Fanning, P., Sparaci, L., Dissanayake, C., Hocking, D. R., & Vivanti, G. (2021).
 Functional play in young children with autism and Williams syndrome: A cross-syndrome comparison. Child Neuropsychology: A Journal on Normal and Abnormal Development in Childhood and Adolescence, 27(1), 125–149.
 https://doi.org/10.1080/09297049.2020.1804846
- Lifter, K., Mason, E.J., Takuya, M., Cannarella, A.M., &Tenant, R.R. (2022).
 Emergent patterns in the development of young children's object play. *Acta Psychologica*, 224, 103524. https://doi.org/10.1016/j.actpsy.2022.103524

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Northeastern PROJECT Selected References

- Lifter, K., Mason, E. J., & Barton, E. E. (2011). Children's play: where we have been and where we could go. Journal of Early Intervention, 33(4), 281-297.
- Lifter, K., Ellis, J.T., Cannon, B.O., and Anderson, S.R. (2005). Developmental specificity in targeting and teaching play activities to children with pervasive developmental disorders. *Journal of Early Intervention*, 27(4), 247-267.
- Lifter, K., Sulzer-Azaroff, B., Anderson, S. & Cowdery, G. (1993). Teaching play activities to preschool children with disabilities: The importance of developmental considerations. *Journal of Early Intervention*, 17 (2), 139-159.
- Lifter, K., Foster-Sanda, S., Arzamarski, C.A., Briesch, J., & McClure, E. (2011).
 Overview of play: Its uses and importance in early intervention/early childhood special education. *Infants & Young Children, 24* (3), 1-21.
- Lifter, K. and Bloom, L. (1989). Object play and the emergence of language. Infant Behavior and Development, 12(4), 395-423.
- Nicolich, L. M. (1977). Beyond sensorimotor intelligence: Assessment of symbolic maturity through analysis of pretend play. Merrill-Palmer Quarterly, 23, 89–99.
- Pierce-Jordan, S. & Lifter, K. (2005). The interaction of social and play behaviors in preschoolers with and without pervasive developmental disorders. *Topics in Early Childhood Special Education*, 25(1), 34-47.

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Northeastern PROJECT Selected References PLAY

- Sidhu, J., Barlas, N., & Lifter, K. (2020). On the meanings of functional play: A review
 and clarification of definitions. *Topics in Early Childhood Special Education*, 1-13.
 DOI: 10.1177/0271121420951859 Bloom, L. & Tinker, E. (2001). The intentionality
 model and language acquisition: Engagement, effort, and the essential tension in
 development. *Managraphs of the SRCD*, 80 (1, Serial No. 609).
- Thiemann-Bourque, K. S., Brady, N. C., & Fleming, K. K. (2012). Symbolic play of preschoolers with severe communication impairments with autism and other developmental delays: more similarities than differences. *Journal of Autism and Developmental Disorders*, 42(6),863–873. https://doi.org/10.1007/s10803-011-1317-7
- Thiemann-Bourque, K., Johnson, L. K., & Brady, N. C. (2019). Similarities in Functional Play and Differences in Symbolic Play of Children with Autism Spectrum Disorder. American Journal on Intellectual and Developmental Disabilities, 124(1), 77–91. https://doi.org/10.1352/1944-7558-124.1.77
- Yogman, M., Garner, J.H., Hutchinson, J., Hirsh-Pasek, K, Golinkoff, R.M. (2018).
 The power of play: A pediatric role in enhancing development in young children. Pediatrics. 142.