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A compass towards equity: a data analysis framework to capture children's behaviour in the playground context

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CHAPTER 8

Appendix

Appendix A.

Correlations between the study variables (pooled and weighted results)

Variable	Spearman's rho in all children (in autistic/allistic children)						
	2.	3.	4.	5.	6.	7.	
Age	-.275 (-.052/-423)	.211 (.220/.129)	-.369 (-.177/-445)	.248 (.282/.211)	-.239 (-.298/-.210)	.088 (.015/.113)	
Loneliness	-	-.019 (.101/-.193)	.009 (-.344/.256)	-.128 (.268/-.437)	-.008 (-.035/.079)	.093 (.204/.020)	
Reciprocated friendships	-	-	.079 (.152/.092)	.367 (.349/.346)	.072 (.154/.105)	.194 (.273/.133)	
Classmate centrality	-	-	-	-.311 (-.367/-.236)	.276 (.159/.356)	-.133 (-.285/.015)	
Time in social contact	-	-	-	-	.231 (.282/.206)	.495 (.692/.317)	
N contact partners	-	-	-	-	-	.727 (.742/.735)	
Playground centrality	-	-	-	-	-	-	

Significant correlations ($p \leq .01$) are bolded.

Appendix B.

Results based on raw data (unweighted and before multiple imputation)

	Mean (SD)		Correlation with loneliness	
	Range	Autistic	Allistic	All
Loneliness (total score; n = 85)	16-68	32.63 (10.02)	33.30 (11.92)	898.5 -
Physical connectedness				
Total time in social contact ^b (n = 83)	0.03-1	.54 (.23)	.70 (.23)	522.0** -.14 .11
Number of contact partners ^c (n = 83)	0.09-0.95	.60 (.17)	.53 (.17)	666.0 -.12 -
Playground closeness centrality (n = 83)	0.02-0.11	.07 (.02)	.08 (.02)	741.0 -.02 -
Emotional connectedness				
Reciprocated friendships ^d (n = 76)	0-1	.34 (.29)	.52 (.30)	459.5** -.03 -
Classmate closeness centrality (n = 75)	0.47-2	1.20 (.36)	.94 (.35)	433.5** -.11 -

Correlation coefficients for separate groups are reported only when Fisher's r-to-z transformation showed a significant difference in the strength of correlations between the group; otherwise, the correlation coefficients for the entire sample are reported.

^a Highest possible total score is 80.

^b Corrected by the total time when the child was detected.

^c Corrected by n - 1, where n is the total number of children on the playground.

^d Calculated as a degree by dividing the number of reciprocated nominations by the number of outgoing nominations.

** $p \leq .01$.

*** $p \leq .001$.

Appendix C.

Results including only autistic children without comorbidity (n = 24) and allistic children without a diagnosis (n = 34) (weighted and pooled results)

	Range	Mean (SD)		Correlation with loneliness		
		Autistic	Allistic	U	All	Autistic Allistic
Loneliness (total score^a)	16-68	33.32 (6.96)	35.99 (14.42)	687.50	-	-
Physical connectedness						
Total time in social contact ^b	0.03-0.99	.65 (.23)	.65 (.24)	600.00	-.07	.35
Number of contact partners ^c	0.11-0.95	.53 (.14)	.54 (.15)	693.50	-.05	-
Playground closeness centrality	0.02-0.11	.08 (.02)	.08 (.02)	546.00	.15	-
Emotional connectedness						
Reciprocated friendships ^d	0-1	.46 (.26)	.49 (.28)	602.00	-.10	.28
Classmate closeness centrality	0.49-2	1.02 (.38)	.91 (.23)	533.50	-.20	-.43**
						.23

Correlation coefficients for separate groups are reported only when Fisher's r-to-z transformation showed a significant difference in the strength of correlations between the group; otherwise, the correlation coefficients for the entire sample are reported.

^a Highest possible total score is 80.

^b Corrected by the total time when the child was detected.

^c Corrected by n - 1, where n is the total number of children on the playground.

^d Calculated as a degree by dividing the number of reciprocated nominations by the number of outgoing nominations.

** p ≤ .01.

*** p ≤ .001.

Appendix D.

Mean and standard deviation of the study variables in autistic children with comorbidities (n = 23) and autistic children without comorbidities (n = 24) (weighted and pooled results).

	Autistic children with comorbidities	Autistic children without comorbidities	U	p
	Mean (SD)	Mean (SD)		
Loneliness	2c33.51 (10.25)	2c33.32 (6.96)	450.00	.932
Reciprocated friendships	2c.24 (.18)	2c.46 (.26)	238.50	.002
Classmate closeness centrality	2c1.12 (.24)	2c1.02 (.38)	415.00	.554
Total time in social contact	2c.56 (.20)	2c.65 (.23)	407.00	.478
Number of contact partners	2c.62 (.15)	2c.53 (.14)	295.50	.020
Playground closeness centrality	2c.08 (.02)	2c.08 (.02)	416.00	.564

