

Background and Purpose

- Participation promotes health & wellbeing¹
- Participation is essential to learning & is correlated with higher academic achievement²
- Participation may predict social adjustment in later life³
- Currently, there is a need for more comprehensive participation assessment tools, that can be used across populations⁴
- This study was designed to examine the utility of the Social Participation Observation Tool (SPOT) by observing kindergartner's school participation. The SPOT is a newly developing tool that guides observation of participation & environmental supports and barriers.

Specifically, the aims of this study were:

- To examine inter-rater reliability of the SPOT
- To examine rater rationale of environment ratings
- To examine rater rationale of participation ratings

Methods

Data Collection:

• 3 pairs of researchers observed children in kindergarten at the Eliot-Pearson School in Medford, MA during the morning arrival routine, morning meeting, outdoor play, or lunch

• Each pair observed a single child for the duration of an entire activity using the SPOT and gave a participation rating based on descriptions from Periera et al.⁵ E= participation equal to peers; EM= equal participation with modifications; O=onlooker; Qualifiers were used to indicate more (+) or less (-) participation. Environment was rated on a 5-point scale (1= very limiting to 5 =very supportive) • Rationale for ratings given were recorded

• Each pair completed 3 separate observations, for a total of 24 observations

Data Analysis:

• *Inter-rater percent agreement* (#agrees/total # pair observations x 100) of environmental and participation ratings

•*Content analysis & descriptive statistics:*

• <u>Environmental rating rationale categorized by physical environment, peers</u>, teacher, activity/schedule

• Computed number of environmental supports and barriers reported

• <u>Participation rating rationale</u> coded by key words & phrases reflecting quantity & quality of participation.

• Computed percent of participation ratings given

Results

Inter-Rater Percent Agreement:

- 91.67% for participation ratings without qualifiers (+, -); 50% with qualifiers
- 50% for environment ratings

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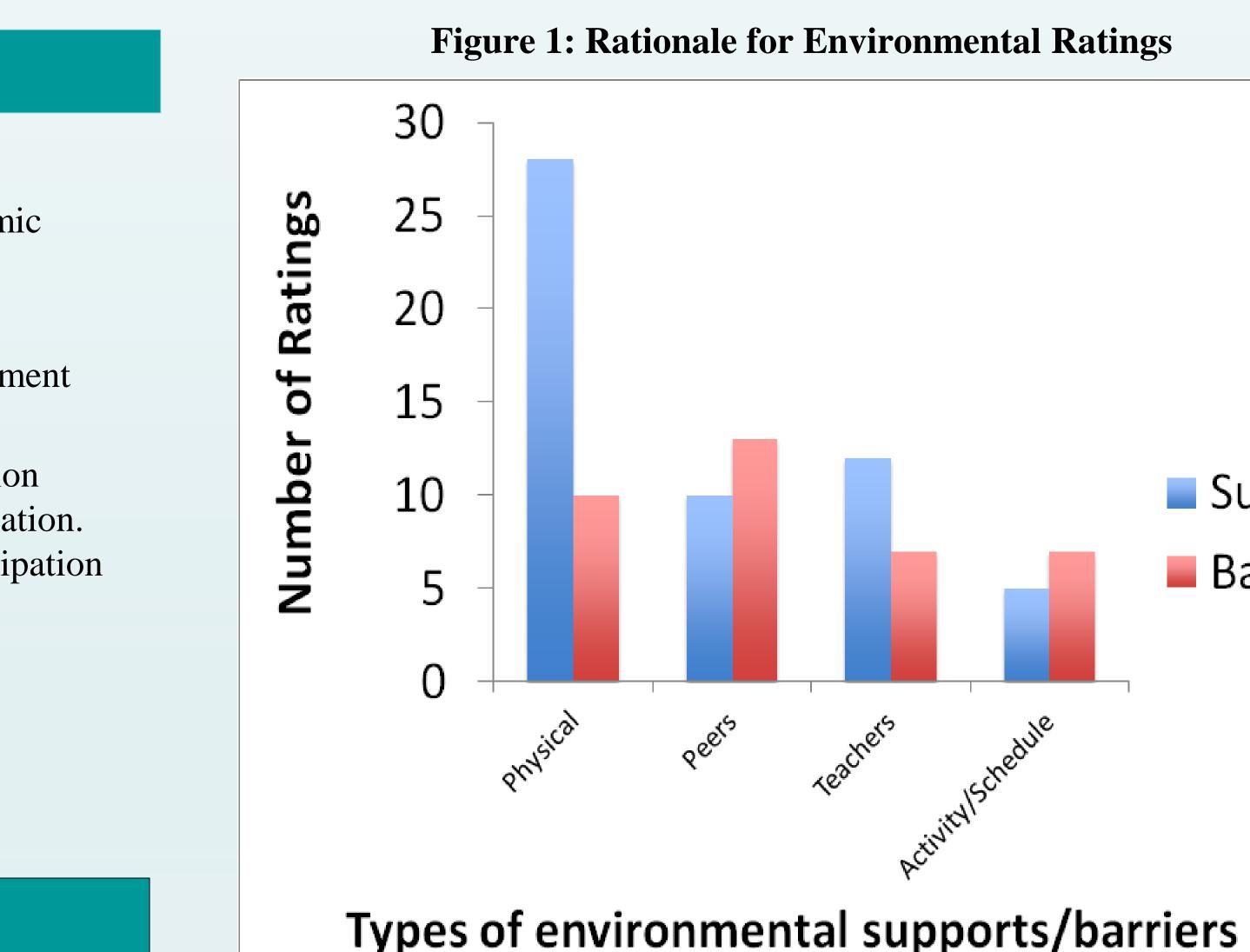


Table 1: Environmental Rating Categories: Definitions and Examples

Type of Environmental	Definition	Examples of Support (+)	Examples of Barrier (-)
Support/Barrier			
Physical	Natural and built	"It was supportive	"It was limiting
	nonhuman	because the circle	because the door
	environment and	area was small	was open so she
	the objects in them	and confined. It	had the chance to
		was clear of clutter."	leave the room."
Peers	Interactions with	"Another student	"He was distracted
	same age	helped him by	by the other
	classmates	showing him what	classmate who
		to do."	was following him."
Teacher	Interactions with	"The teacher gave	"It was also
	the teacher	clear directions to	limiting when the
		follow and talks to	teacher did not
		her one-on-one a	engage with the
		few times."	student in
			conversation."
Activity/Schedule	Tasks or sequence	"It is supporting	"The staggered
	of tasks child was	because there was	arrival of children
	engaged in	a structured game	and the multiple
		that she could	activities
		easily join."	occurring were
			distracting to
			children and could
			limit
			participation."

	_
	Support
	Barrier
wischedule	

Table 2:		
Rating	Percent of Observations	
E+	12.5%	Childre engag
E	46%	Childr They
E-	12.5%	Child others l
EM	4%	Child p
EM-	4%	Ch
0	4%	Child ap

* Child seemed to have difficulty doing the activity and briefly removed herself from it

- barriers).
- activity, which is consistent with previous literature⁶⁻⁸

Limitations: Small sample from one laboratory-demonstration school limited generalizability; Only 6 raters in this pilot study so inter-rater agreement needs further assessment. Environment and participation ratings were clustered (narrow range) possibly due to the unique classroom setting and small sample size. Research in more diverse classrooms is needed with varying populations (e.g., children with disabilities)

1 Law, M. (2002). Participation in the occupations of everyday life. American Journal of Occupational Therapy, 56, 640-649. 2 Skinner, E. A., & Belmont, M. J. (1993). Motivation in the classroom: Reciprocal effects of teacher behavior and student engagement across the school year. Journal of Educational Psychology, 85, 571–581. 3 Bart, O., Hajami D., & Bar-Haim Y. (2007). Predicting school adjustment from motor abilities in kindergarten. Infant and Child Development, 16(6), 597–615. 4 Rosenberg, L., Jarus, T., & Bart, O. (2010). Development and initial validation of the Children Participation Questionnaire (CPQ). Disability and Rehabilitation, 32(20), 1633-1644. 5 Pereira, E., la Cour, Jonsson, H., & Hemmingsson, H. (2010). The participation experience of children with disabilities in Portuguese mainstream schools. British Journal of Occupational Therapy, 73(12), 598-607. 6 Eriksson, L. & Granlund, M. (2004). Perceived participation. A comparison of students with disabilities and without disabilities. Scandinavian Journal of Disability Research, 6, 206–224. 7 Lachapelle, Y., Wehmeyer, M. L., Haelewyck, Y., Courbois, K. D., Keith, K. D., Schalock, R., et al. (2005). The relationship between quality of life and self determination: An international study. *Journal of Intellectual Disability* Research, 49, 740–744. 8 Almqvist, L., & Granlund, M. (2005). Participation in school environment of children and youths with disabilities. Scandinavian Journal of Psychology, 46, 305–314.

Rationale for Participation Ratings

Common Theme

en described as having leadership qualities (proactively ged) and participating throughout the entire activity.

ren interacted/talked with classmates and/or teachers. y appeared to be listening and enjoying themselves.

lren described as participating in the activity and with but were distracted by themselves or by other factors.

participated in activity, had limited verbal interactions, and *self-modified**

hild participated, barely spoke, and *self modified**

ppeared to be engaged, but did not actively participate.

Discussion

• Inter-rater agreement for participation ratings without qualifiers was very good, but poor for participation with qualifiers & for environment. These results might be due to 1) Environment ratings not being as well defined as participation ratings leading observers to focus on different aspects of the environment, & 2) Participation with qualifiers had more ratings thus greater opportunities for disagreement

• Raters most often rated physical environment as supports possibly due to physical environment being easier to observe. The number of supports and barriers seemed to affect environment ratings (e.g. ratings of 5 had the most support & the least

• Within participation score rationales, observers consistently focused on leadership qualities, interacting with peers and teachers, & participating throughout the entire

References