

“STRUCTURING OF THE SUBJECT-SPATIAL  
ENVIRONMENT IN THE CHILDREN'S ROOM  
AS A CONDITION FOR THE DEVELOPMENT OF  
INDEPENDENCE IN CHILDREN 3 YEARS OLD”

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# INDEPENDENCE



- is the ability for independent action and judgment, attentiveness and initiative



- the ability to constantly break beyond the boundaries of one's own capabilities, set new challenges for oneself and find solutions to them



- leads to the maturation of the preschooler's personality, helps in the processes of self-determination, understanding and realization of a person's Self

# DEVELOPING SPATIAL ENVIRONMENT

- specially organized space, materials, equipment and inventory for the development of preschool children in accordance with the peculiarities of each age stage, protection and promotion of their health, taking into account the peculiarities and correction of their developmental deficiencies

The environment should present the child with the freedom to improve skills that lead to independence and autonomy (M. Montessori)



# 3 STAGES OF RESEARCH

- 1 Pre-test, which included measuring the child's independence and assessment of the subject-spatial environment
- 2 Modification of the spatial environment
- 3 Repeated measurement of the child's independence

# SAMPLE

	<b>Experimental group</b>	<b>Control group</b>	<b>Total</b>
<b>Number of families</b>	7	8	15
<b>Number of boys</b>	4	4	8
<b>Number of girls</b>	3	4	7

	<b>Experimental group</b>	<b>Control group</b>	<b>Total</b>
<b>Age of children</b>	M = 3,5	M = 3,2	M = 3,3, SD = 1,3
<b>Age of parents</b>	M = 36	M = 33	M = 35

# METHODS FOR ASSESSING INDEPENDENCE

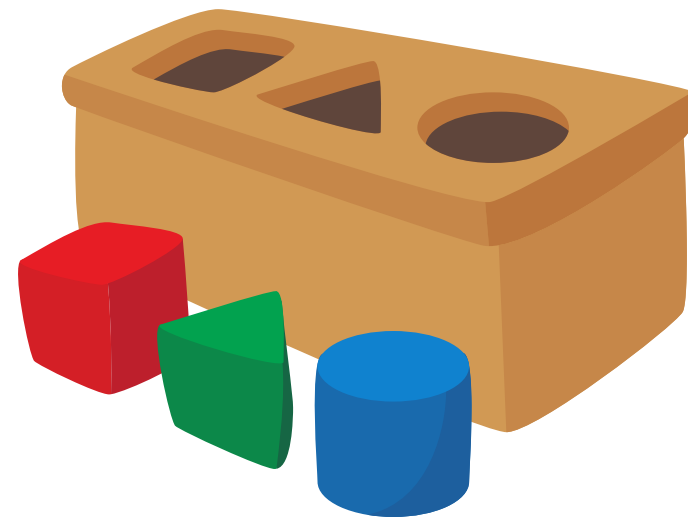
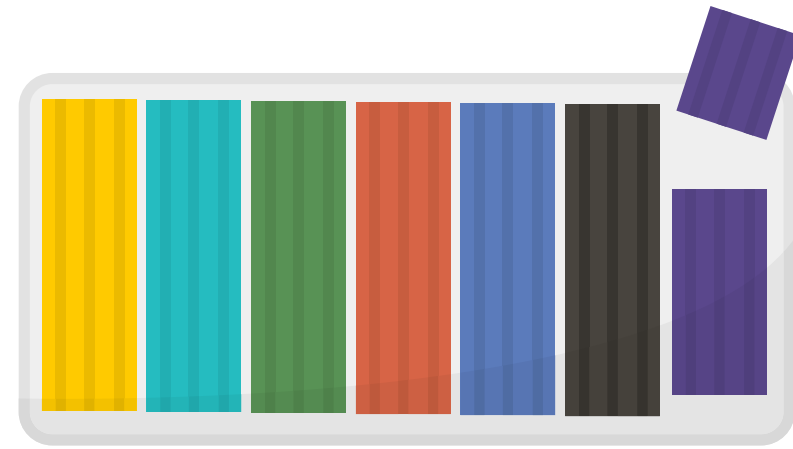
Adapted methodology for assessing the child's level of independence based on A.M. Shchetinina's map of independence manifestations

Levels for each parameter	Points for each parameter
1 level	0 points
2 level	1 point
3 level	2 points
4 level	3 points
5 level	4 points

General level of independence	Total of points
1 level	0-12 points
2 level	13-25 points
3 level	26-38 points
4 level	39-51 points
5 level	52-64 points

**The prepared methodology for assessing independence included 3 parameters:**

- Self-care
- Self-organization
- Duration of free play



EXPLORER'S "SUITCASE"

# METHODS FOR ASSESSING SUBJECT- SPATIAL ENVIRONMENT

Requirements of the Federal State Educational Standards for Children's Education and the methodological material "Developing spatial environment in kindergarten" by E.O. Smirnova

<b>Levels</b>	<b>Points for each parameter</b>
<b>1 level</b>	0 points
<b>2 level</b>	1 point
<b>3 level</b>	2 points

<b>Levels</b>	<b>Total of points</b>
<b>1 level</b>	0-18 points
<b>2 level</b>	19-36 points
<b>3 level</b>	37-54 points

**The evaluation methodology included 9 parameters:**

- Zone and categorization
- Quantification
- Variability
- Physical assessment
- The developmental potential of the materials is appropriate for the age of the child
- Polyfunctionality
- Transformability
- Accessibility
- Safety

# ASSESSMENT OF THE PRE-SPATIAL ENVIRONMENT AND LEVEL OF INDEPENDENCE

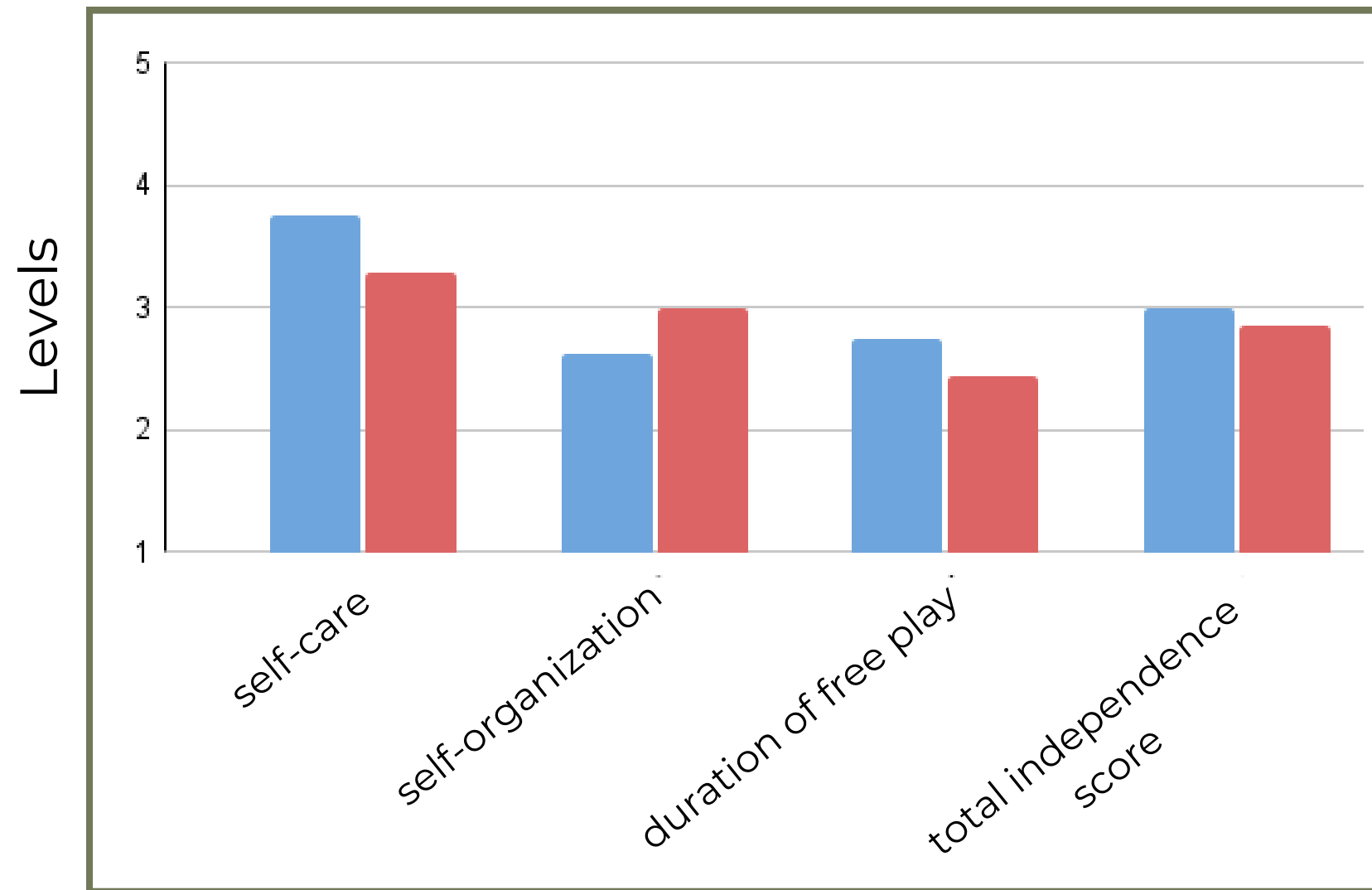




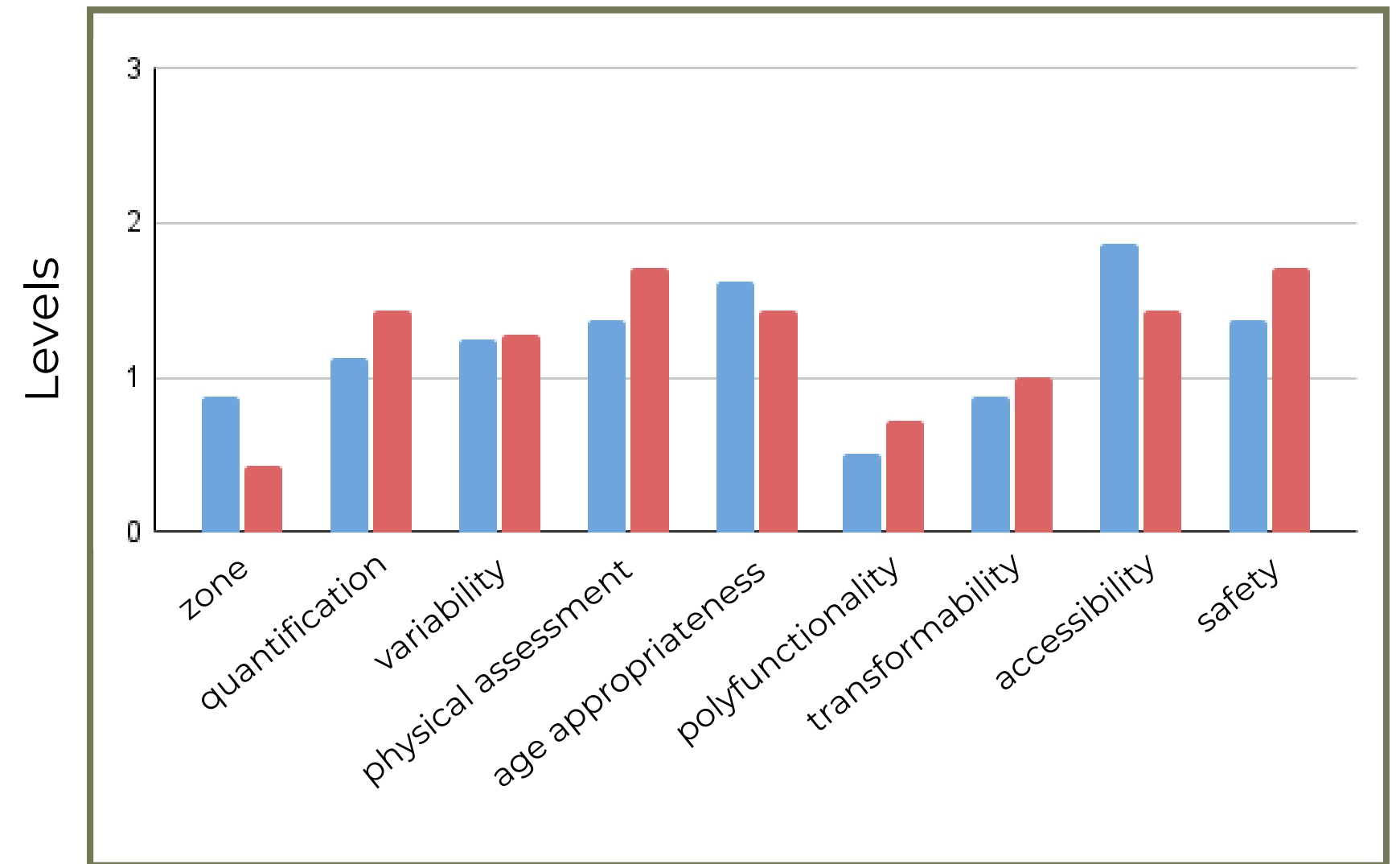
# STAGE 1 RESULTS

Control group

Experimental group



Assessment parameters



Assessment parameters

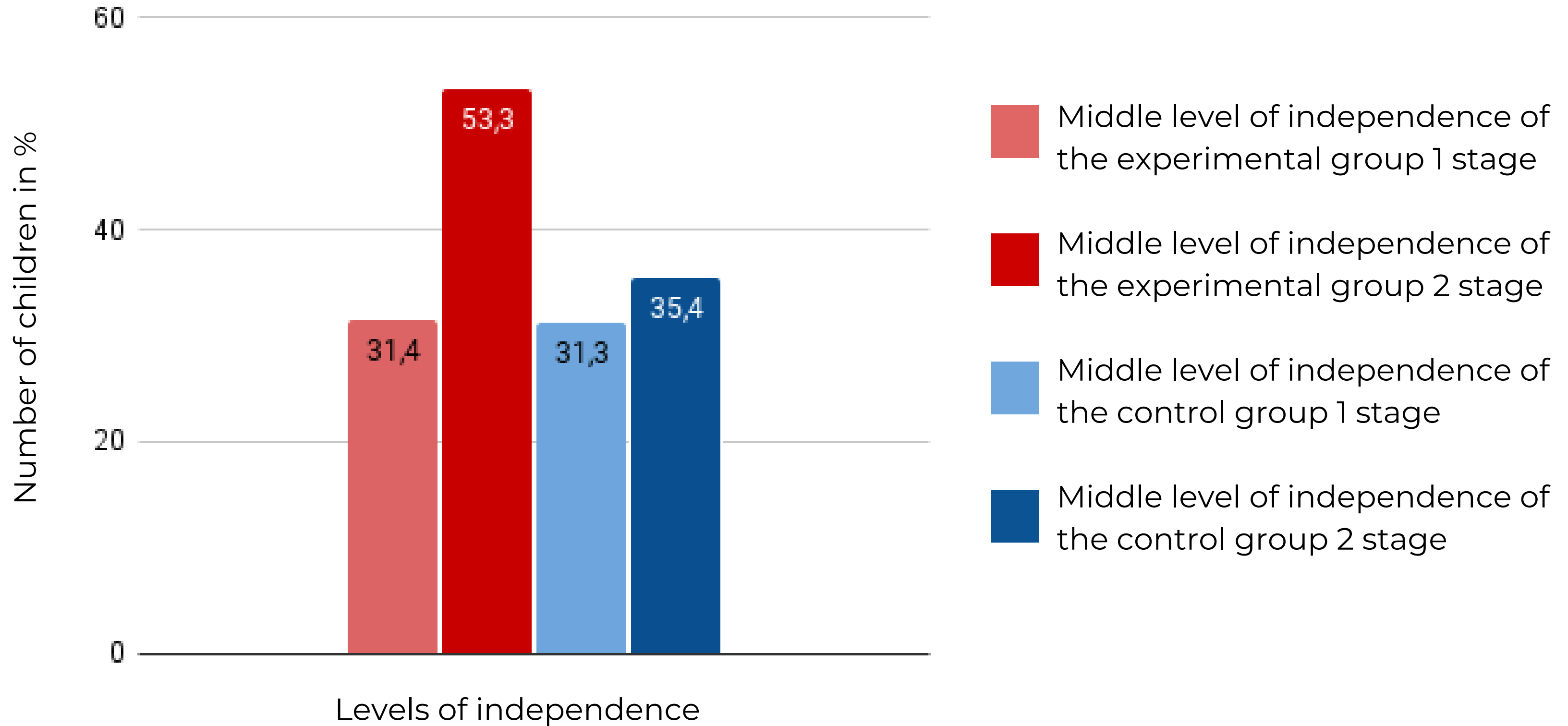
THE MODIFICATION OF  
THE SUBJECT-SPACE  
ENVIRONMENT WAS  
BASED ON THE DATA  
OBTAINED FROM THE  
ASSESSMENT



PRINCIPLES OF SPACE  
ORGANIZATION

- Closeness and convenience
- Categorization
- Efficient use of space
- Containerization
- Labeling (with pictures)

# STAGE 2 RESULTS



# STAGE 2 RESULTS

Difference between the indicators in the experimental and control groups

Independence parameters	Value by Mann-Whitney criterion
Self-care	p = ,002
Self-organization	p = < ,001
Duration of free play	p = ,006
Total independence score	p = < ,001

Connection between assessments of independence and assessments of the organized spatial environment

Independence parameters	r	Spatial environment assessments
Self-care	p	0,817 < 0,001
Self-organization	p	0,849 < 0,001
Duration of free play	p	0,629 0,012
Total independence score	p	<b>0, 791</b> <b>&lt; 0,001</b>

# STAGE 2 RESULTS



THANK YOU FOR YOUR ATTENTION