

CONTENT

LIST OF ABBREVIATIONS AND ACRONYMS.....	9
1 INTRODUCTION.....	11
2 LITERATURE REVIEW.....	14
2.1 Intellectual Disability.....	14
2.1.1 Defining Intellectual Disability.....	14
2.1.2 Classification of Intellectual Disability.....	15
2.1.3 Aetiology of Intellectual Disability.....	18
2.1.4 Intellectual Disability in Bosnia and Herzegovina.....	19
2.2 Executive Functions.....	21
2.2.1 Defining Executive Functions.....	21
2.2.2 Executive Functions and Frontal Lobes.....	23
2.2.3 Development of Executive Functions.....	24
2.2.4 Executive Functions and Intelligence.....	26
2.2.5 Executive Functions and Intellectual Disability.....	28
2.2.5.1 Down Syndrome.....	29
2.2.5.2 Williams Syndrome.....	30
2.2.5.3 Autism Spectrum Disorder.....	31
2.2.5.4 Persons with ID of non-specific or non-disorder type of ID.....	33
2.2.6 Assessment of Executive Functions.....	36
2.2.6.1 BRIEF and ID.....	38
2.2.6.2 In Support to BRIEF.....	39
2.3 Physical Activity.....	41
2.3.1 General Health Benefits of Physical Activity.....	42
2.3.2 Effects of Physical Activity on Cognition and Executive Functions.....	43
2.3.3 Physical Activity and Persons with Intellectual Disability.....	47
2.4 Physical Activity and Executive Functions in Individuals with Intellectual Disability.....	51
Summary of Literature Review.....	52
3 GOALS AND RESEARCH QUESTIONS.....	55
4 METHODS.....	56

4.1 Procedures.....	56
4.2 Participants of the Study.....	56
4.3 Assessment Methods.....	57
4.3.1 Assessment of Executive Functions.....	57
4.3.2 Assessment of Physical Activity.....	58
4.4 Data Analysis.....	59
4.5 Ethical Considerations.....	60
5 RESULTS.....	61
5.1 Preliminary Analysis.....	61
5.2 Main analysis.....	67
6 DISCUSSION.....	77
7 CONCLUSION.....	87
8 SUMMARY.....	89
9 REFERENCES.....	91
APPENDIX I.....	121
APPENDIX II.....	124
APPENDIX III.....	126
APPENDIX IV.....	131
APPENDIX V.....	132

ID - Intellectual disability

IDD - Intellectual and developmental disability

LPA - Light physical activity

MA - Mental age

MET - Metabolic equivalent

MI - Metacognition index

MPA - Moderate physical activity

MVPA - Moderate to vigorous physical activity

NC - No cycling

NCD - Noncommunicable diseases

PA - Physical activity

SB - Sedentary behavior

SD - Standard deviation

TD - Typically developing(ed)

TOL - Tower of London