

Contents

Acknowledgements ..... 7

Preface ..... 8

1      **Introduction** ..... 9

2      **Theoretical Considerations: Health Parameters of Young People  
         from the Perspective of Sports Science**..... 13

2.1    Health status, fitness levels and health behaviour among young people....13

2.1.1   Health and fitness status ..... 14

2.1.2   Health behaviour: physical activity levels ..... 19

2.1.3   Defining physical activity ..... 20

2.1.4   Assessment of physical activity ..... 20

2.1.5   Recent physical activity recommendations..... 23

2.1.6   Prevalence of young people's physical activity levels ..... 24

2.1.7   The effects of physical activity and physical fitness on health..... 25

2.1.8   Association between physical activity and physical fitness in  
         respect to health ..... 25

2.1.9   Health effects of fitness and physical activity ..... 26

2.2    Health promotion in PE under the perspective of sports science .....29

2.2.1   Pedagogical considerations: Why health promotion in the school setting?.. 30

2.2.2   Training science considerations: How can PE contribute to  
         children's health? ..... 33

2.2.3   Psychological considerations: Which factors promote a physically  
         active lifestyle? ..... 38

2.2.3.1   Theories and models used in behavioural and social science research.... 39

2.2.3.2   Modifiable determinants of physical activity behaviour..... 42

2.3    Chapter summary ..... 51

3      **Current Research: School-Based Physical Activity Interventions** ..... 53

3.1    Existing reviews and meta-analyses on health promotion in the school  
         setting ..... 53

3.2    A systematic review of international studies..... 56

3.2.1   Method ..... 56

3.2.1.1   Selection of studies ..... 57

3.2.1.2   Data extraction ..... 59

3.2.1.3   Criteria of methodological quality ..... 59

3.2.1.4   Analysis of selected studies ..... 60

3.2.2   Results ..... 62

3.2.2.1	Aims and design of the interventions .....	62
3.2.2.2	Methodological quality .....	65
3.2.2.3	Effectiveness of the interventions.....	73
3.2.2.4	Effectiveness of specific groups of interventions.....	75
3.2.2.5	Effects of psychological mediators .....	77
3.2.3	Discussion of the results .....	78
3.3	School-based intervention studies in German language countries.....	81
3.4	Chapter summary .....	89
<b>4</b>	<b>Intervention Study: Development and Evaluation of HealthyPEP .....</b>	<b>90</b>
4.1	Objectives of the empirical study.....	90
4.2	Development of HealthyPEP.....	91
4.2.1	Scientific considerations for the design of HealthyPEP.....	92
4.2.2	Description of HealthyPEP .....	97
4.3	Evaluation of HealthyPEP .....	105
4.3.1	Study methods .....	105
4.3.1.1	Study sample.....	105
4.3.1.2	Study design and procedure of the data assessment .....	105
4.3.1.3	Measures .....	110
4.3.1.4	Data analysis.....	124
4.3.2	Study results.....	127
4.3.2.1	Preliminary analysis .....	127
4.3.2.2	Process measures.....	131
4.3.2.3	Intervention effects .....	138
4.3.2.4	Additional analysis.....	160
4.3.3	Interpretation and discussion .....	167
<b>5</b>	<b>Summary and Perspectives .....</b>	<b>178</b>
	<b>References.....</b>	<b>184</b>
	<b>List of Tables.....</b>	<b>207</b>
	<b>List of Figures .....</b>	<b>208</b>
	<b>Appendix.....</b>	<b>209</b>
	<b>The Author.....</b>	<b>211</b>