

Table of Contents

Chapter 1

General introduction and outline of the thesis P 4

Chapter 2

Puberty and microvascular function in healthy children and adolescents P 17

The Journal of Pediatrics 2012; 161(5): 887-891

Chapter 3

Physical activity intensity and surrogate markers for cardiovascular health P 24
in adolescents

European Journal of Applied Physiology 2013; 113(5):1213-1222

Chapter 4

Adolescent blood pressure hyperreactors have a higher reactive hyperemic P 35
index at the fingertip

European Journal of Applied Physiology 2013; 113:2991-3000

Chapter 5

Methodological considerations and practical recommendations for the application P 46
of peripheral arterial tonometry in children and adolescents

International Journal of Cardiology 2013; 168(4):3183-3190

Chapter 6

General discussion and outlook P 55

Chapter 7

Acknowledgments

P 62

Chapter 8

References

P 64

Chapter 9

Curriculum vitae and complete list of publications

P 74