Appendix A; Synchronized Metronome Training (SMT) paradigm

Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8	Session 9	Session 10	Session 11	Session 12
44 min	41 min	41 min	43 min	41 min	43 min	41 min	41 min	42 min	43 min	42 min	44 min
Pre-test; Exercise 1-13, and soccer- exercise I and II	Exercise 1			Freestyle 1	Exercise 1	Exercise 10	Exercise 1	Exercise 5	Exercise 8	Exercise 12	Exercise 1
	3 min / 54 bpm	Exercise 1 4 min / 54 bpm	Exercise 1 C 9 min / 54 bpm 4 m	2 min / 78 bpm	2 min / 54 bpm	2 min / 54 bpm	2 min / 54 bpm	2 minutes	2 min / 54 bpm	2 minutes	2 min / 54 bpm
	(GS) OFF				Exercise 2	Exercise 11	Exercise 2	Exercise 6	Exercise 9	Exercise 13	Exercise 2
				Quick Feet 4 min / 90 bpm	2 min / 54 bpm	2 min / 54 bpm	2 min / 54 bpm	2 minutes	2 min / 54 bpm	2 minutes	2 min / 54 bpm
	Exercise 1 6 min / 54 bpm (GS) ON	Exercise 4 3 min / 54 bpm Quick Feet 4 min / 80 bpm			Exercise 3	Om Quick Feet 4 min / 90 bpm Multi D Wheel 3min / 78 bpm clockwise Multi D Wheel	Exercise 3	4 min / 90 bpr Doubl MD Whe 3min / 54 bpr clockwise Doubl MD WM- 3 min / 54 bpr anti clockwise			Exercise 3
					2 min / 54 bpm		2 min / 54 bpm			pm heel pm 2 heel pm	2 min / 54 bpm
				Tic-Tac	Exercise 7		Exercise 4				Exercise 4
				3 min / 90 bpm	3 min / 90 hpm 2 min / 54 bpm		2 min / 54 bpm				2 min / 54 bpm
				,	Exercise 8		Exercise 5				Exercise 5
	Exercise 2 3 min / 54 bpm		Quick Feet 4 min / 80 bpm	Exercise 1 19 min / 54 bpm	2 min / 54 bpm		2 min / 54 bpm				2 min / 54 bpm
					Exercise 9 2 min / 54 bpm		Exercise 6 2 min / 54 bpm				Exercise 6 2 min / 54 bpm
	Exercise 6	Exercise 2 3 min / 54 bpm			Multi D Wheel		2 min / 54 ppm				Doubl MD Wheel
					3min / 54 bpm (cw)	anti clockwise	Tic-Tac				3min / 78 bpm
Exercise 1 5 min / 54 bpm	3 min / 54 bpm		Exercise 2 3 min / 54 bpm		Multi D Wheel	Shuffle step I	4 min / 100 bpm		Shuffle step II		clockwise
		Exercise 3 3 min / 54 bpm			3min / 54 bpm (acw)		4 mm / 200 bpm				Freestyle II
	Exercise 10 4 min / 54 bpm				Sillin / 34 bpin (acw)	3 min / 54 bpm	On Toes		3 min / 54 bpm		2 min / 54 bpm
		Freestyle I	Exercise 3 3 min / 54 bpm		Exercise 12 3 min / 54 bpm		2 min / 100 bpm		Freestyle II		Doubl MD Wheel
		2 min / 66 bpm							2 min / 54 bpm		3 min / 78 bpm
Exercise 4 4min / 54 bpm Guidesounds		2 min / 66 bpm			Exercise 13 3 min / 54 bpm		Back & Forth I		2 min / 54 opin		
	Exercise 3 3 min / 54 bpm	Exercise 10 3 min / 54 bpm	Exercise 10 3 min / 54 bpm			Exercise 1	3 min / 66 bpm	Exercise 1	Exercise 12 4 min / 66 bpm	Exercise 1 38 min / 54 bpm	anti clockwise
							Freestyle II	30 min / 54 bpm			
off											Quick Feet
	Exercise 5	Exercise 11	Exercise 11			10 min / 54 bpm	2 min / 54 bpm				4 min / 90 bpm
Exercise 5	3 min / 54 bpm	3 min / 54 bpm	3 min / 54 bpm				Back & Forth II		Tic-Tac		
2 min / 54 bpm		01 (11)					3 min / 66 bpm		3 min / 100 bpm		Exercise 10
Exercise 6	Promoton 44	Shuffle step I	Exercise 12								2 min / 54 bpm
2 min / 54 bpm	Exercise 11 4 min / 54 bpm	3 min / 40 bpm Guidesounds off	3 min / 54 bpm				Shuffle step II		Exercise 13		Exercise 11 2 min / 54 bpm
Exercise 7	4 min / 54 ppm	Guidesounds off		On Toes Exercise 4	Exercise 4	Tic-Tac 3 min / 100 bpm	3 min / 40 bpm	3 min / 40 bpm Doubl MD Wheel	4 min / 66 bpm		Exercise 7
3 min / 54 bpm		Exercise 1	Tic-Tac				Doubl MD Wheel				2 min / 54 bpm
	Exercise 4	4 min / 54 bpm	3 min / 90 bpm	3 min / 90 bpm	7.5		3min / 78 bpm				7 7 7
Exercise 2	4 min / 54 bpm		Multi D Wheel	Twist & Tap Left		On Toes 3 min / 90 bpm	clockwise		On Toes 3 min / 100 bpm		
4 min / 54 bpm		Exercise 7	3 min / 66 bpm	2 min / 54 bpm		3 min / 90 opm	Exercise 10		3 min / 100 bpm		
	Freestyle I	2 min / 54 bpm	clockwise	Twist & Tap Right		Twist & Tap Left	3 min / 54 bpm		Back & Forth I		
	2 min / 54 bpm	On Toes	Multi D Wheel	2 min / 54 bpm		2 min / 54 bpm		Exercise 2	3 min / 54 bpm		Post-test;
Exercise 3	Exercise 7	3 min / 80 bpm	3 min / 66 bpm	Back & Forth I		Twist & Tap Right	Doubl MD Wheel	2 min / 54 bpm	. , . , .		Exercise 1-13, and soccer-
4 min / 54 bpm	2 min / 54 bpm	1 1	anti clockwise	3 min / 54 bpm		2 min / 54 bpm	3 min / 78 bpm	Exercise 3	Back & Forth II		exercise I and II
	Exercise 8 2 min / 54 bpm	Twist & Tap Left 2 min / 54 bpm	Shuffle step I			Exercise 5 2 min / 54 bpm	anti clockwise	2 min / 54 bpm Back & Forth I	3 min / 54 bpm		
Exercise 8	Exercise 9	Twist & Tap Right	3 min / 46 bpm	Back & Forth II	On Toes	Exercise 6	Exercise 11	2 min / 66 bpm	Twist & Tap Left		
3 min / 54 bpm	2 min / 54 bpm	2 min / 54 bpm		3 min / 54 bpm	3 min / 90 bpm	2 min / 54 bpm	3 min / 54 bpm	Back & Forth II	2 min / 54 bpm		
Francisco O			Exercise 13		Shuffle step I	2, 34 0011		2 min / 66 bpm	Twist & Tap Right		
Exercise 9			3 min / 54 bpm	1	2 min / 46 bpm				2 min / 54 bpm		
3 min / 54 bpm				•		<u></u>					

Exercise 1	Both hands	Clapping hands together in a circular fashion	Soccer exercise I	3 floor-mats. One in front and one on each side of particpant: II. L toeon L mat ->L toe on front mat -> R toe on front mat -> R toe on right mat -> L toe on L mat
Exercise 2	Right hand	Clapping the hand towards the tigh	Soccer exercise II	Kicking a contact-sensing trigger placed under a beam 30 cm above the ground, hitting the trigger with the top of the foot. 54 bpm
Exercise 3	Left hand	Clapping the hand towards the tigh	Freestyle I	4 beats clapping hands (as in exercise 1) → 4 beats both toes (as in exercise 4) → 4 beats clapping hands → 4 beats both toes •
Exercise 4	Both toes	Tapping front floor-sensor, L/R toe alternately	Freestyle II	1 floor-mat in front of participant. 4 beats L toe -> 8 beats both thoes -> 4 beats R toe -> 4 beats both toes ∞
Exercise 5	Right toe	Tapping front floor-sensor with R toe	Quick Feet	3 floor-mats. One in front and one on each side of particpant: II. L toe Lmat ->L toe front mat -> R toe front mat -> R toe right mat -> L toe on L mat ∞
Exercise 6	Left toe	Tapping front floor-sensor with L toe	Twist & Tap (L/R)	3 floor-mats. One in front and one on each side of particpant: I L. Balance on one foot. Tap the three floor mats with the toe of the other foot from L-R or R-L.
Exercise 7	Both heels	Tapping rear floor-sensor, L/R heel alternately	Multidirectional (MD) Wheel	4 floor-mats around the participants. Starts with R toe hitting the R side of the front mat → R toe on R mat → R heel on R side of rear mat → L heel on L side of rear mat → L toe on L mat → L toe on the L side of the front-mat → R toe hitting the R side of the front mat ∞
Exercise 8	Right heel	Tapping rear floor-sensor with R heel	Double MD Wheel	Like the Multidirectional Wheel, but now the subject is tapping the same mat twice before moving on to the next one.
Exercise 9	Left heel	Tapping rear floor-sensor with L heel	Back & Forth I	3 floor-mats in front of participant:> * *>. Starting with weight on L* foot, stepping on R-L-R mat, then L foot on floor (* to iniate 3 steps (R-L-R) backward movemen ∞
Exercise 10	R Hand / L Toe	Alternating R hand on tigh, and L toe on mat	Back & Forth II	As Back & Forth I, however starting with the opposite foot.
Exercise 11	L Hand / R Toe	Alternating L hand on tigh, and R toe on mat	Tic-Tac	Like Back and Forth, but with the addition of a wall-mounted hand sensor (+) starting the movement sequence: + * *
Exercise 12	Balance and tap R/L	Balance on R foot and tap L toe on mat	Shuffle Step	3 floor-mats in a circular lay-out, approx. 1 m apart, and a cone in the middle. The participant moves from one mat to the next utilizing shuffle-steps (sideways skipping)
Exercise 13	Balance and tap L/R	Balance on L foot and tap R toe on mat	On Toes	1 floor-mat in front of the participant. Utilizing a skipping-movement to alternate tapping with L/R toe.