Table S2 Sample training sessions: Week 27 to 52

Sample training sessions for the training weeks 27 - 52 are provided in the table below.

The intervention group trained on 2 days per week. They self-selected the training day (Monday to Friday) but were encouraged to have at least 24 hours of rest between training sessions. Every training week was structured around a particular exercise - the main emphasis of the week. Nevertheless, training sessions differed daily. The training was done in groups (maximum 10 participants) under supervision of a certified CrossFit coach (CrossFit Level 1 and CrossFit Level 2). Although everyone followed the same program, the coach scaled volume, intensity, and movements according to the participants individual, physical condition.

Each training session lasted 60 minutes. The training session started with 5 - 10 minutes of introduction and warm up. Mobility was done afterwards for another 5-10 minutes, including the areas that are involved in the skill and strength part of the session. The skill and strength part lasted 5-30 minutes. After the skill and strength part, a high-intensity workout was performed for 5-30 minutes. Every session ended with 5-10 minutes of mobility and stretching.

Further explanations:

- E(x)MOM (y)= Every minute on the minute. Complete the prescribed repetitions per exercise in the given intervals and rest during the remaining time. When the given intervals differ from 1 minute, the x determines the length of intervals (e.g., E3MOM = every 3 minutes). When different movements are prescribed for the intervals, the sequence is written as 1) exercise 1, 2) exercise 2, etc. (y) determines the overall length.
- AMRAP = As many repetitions as possible are done in the given time span.
- For time = The prescribed workout is done as fast as possible.
- Tabata = 8 consecutive sets of 20sec work followed by 10sec rest. When different movements are prescribed for the intervals, the sequence is written as 1) exercise 1, 2) exercise 2, etc..
- (x)-(x)-(x)-(x) repetitions = Complete x repetitions of every exercise as fast as possible. 21 15 9 Pull ups, Thruster = Complete 21 pull ups, 21 thruster, 15 pull ups, 15 thruster, 9 pull ups and 9 thruster as fast as possible.
- Technique = Technique training of complex movements. Intensity was kept low.

	Main	Warm-up	Mobility	Skill and strength	"Workout of the day"	Cool-down
	emphasis					
Week 27	Dumbbell	3 Rounds	Ankle,	E3MOM 21	10min AMRAP	Mobility /
	clean and	10 Good morning	hip, wrist	3-5 Rounds dumbbell complex	2 Slamball thruster	stretching
	press	10 Squat		1 Dumbbell power clean + 2 Dumbbell front rack squat +	2 Sit up	
		10 Slow mountain climber		3 Dumbbell push press	4 Slamball thruster	
		10 Dumbbell row			4 Sit up	
					add 2 repetitions each round	

Week 28	Rowing	20m Walking lunge	Ankle,	(1) E4MOM 20	9min AMRAP	Mobility /
	ergometer	15 Sit up	shoulder,	20cal Row + 20 Swimmer + 20 Sit up	20 High knee	stretching
		20m Jog	thoracic	-	50m Run	
		15 Squat	spine	(2) Tabata	10 Burpee	
		20m Walking lunge		Wall angel	50m Run	
		15 Push up		Hollow hold	15 Jumping jack	
		20m Jog				
		15 Good morning				
Week 29	Pull up	5 rounds Slamball complex	Shoulder,	(1) EMOM 21	For time	Mobility /
		5 Deadlift	thoracic	1) 5-10 Pull Up / jumping pull up / Australian pull up	10 Slamball thruster	stretching
		5 SlamBall clean	spine	2) 5-10 Push up	15 Burpee	
		5 Front squat		3) 5-10 Split squat	20 Slamball thruster	
		5 Press			15 Burpee	
		5 Slamball		(2) Tabata	30 Slamball thruster	
				1) Side plank pulses right	15 Burpee	
				2) Side plank pulses left	40 Slamball thruster	
					15 Burpee	
					50 Slamball thruster	
					15 Burpee	
					60 Slamball thruster	
					15 Burpee	
					Time cap: 18 minutes	
Week 30	Dumbbell	5min Loaded carries with	Hip,	(1) Dumbbell snatch technique	EMOM 10	Mobility /
	snatch	dumbbells (farmers, waiters,	shoulder	Dumbbell deadlift	5 Burpee + 20 Single under	stretching
		suitcase, etc.)		Dumbbell pull	then	
				Dumbbell high pull	50 goblet Squats	
				Dumbbell muscle snatch	_	
				Dumbbell snatch		
				0.71		
				(2) Tabata		
				1) Seated leg lift		
[2) Swimmer		

Week 31	Shoulder press	2 rounds	Hip,	(1) Barbell shoulder press technique	7min AMRAP	Mobility /
		10 Push up	shoulder,		Burpee	stretching
		10 Bird dog	thoracic	(2) 5 supersets		
		10 Push up	spine	8 Barbell press		
		10 Inchworm		8 Scapular pull up / band pull apart		
				(3) Tabata		
				1) Side plank pulse right		
				2) Side plank pulse left		
Week 32	Squat	10 World's greatest stretch	Hip,	(1) DB Goblet squat technique	For time	Mobility /
		10 Air squat	ankle		10 Burpee	stretching
		10 Push up		(2) EMOM 18	50m Run	
		10 Knee hug		1) 10 DB Front hold squat	20 Sit up	
				2) 10 Australian pull up	50m Run	
				3) 30sek Plank	30 Lunge	
					50m Run	
					40 Air squat	
					50m Run	
Week 33	Snatch	3-5 rounds Slamball complex	Ankle,	(1) Snatch technique	3 Rounds for max repetitions	Mobility /
		5 Deadlift	hip,	Snatch grip deadlift	1 Min Wall ball shot	stretching
		5 Slamball clean	shoulder	Snatch grip high pull	1 Min Slamball	
		5 Front squat		Snatch grip press behind the neck	1 Min Box jump	
		5 Slamball		Overhead squat	1 Min Push up	
		5 Push up		Drop snatch	1 Min Max cal row	
		-		Snatch from hip height	1Min Rest	
				(2) Tabata		
				1) Side plank pulse right		
				2) Side plank pulse left		
Week 34	Pull ups	3 Round	Shoulder	(1) EMOM20 (30sec work/30sec rest)	12min AMRAP	Mobility /
		5 Scapular Pull up		1) Jumping pull up	2 Lunge	stretching
		5 Scapular Push up		2) Slamball thruster	2 Russian twist (2-count)	
		10 Overhead squat		3) TRX row	4 Lunge	
				4) Barbell thruster	4 Russian twist (2-count)	
					*add 2 repetitions each round	
				(2) Tabata		
				1) Hollow hold		
				2) Superman		

Week 35	Snatch	2 rounds	Hip,	(1) Snatch technique	For time	Mobility /
		10 Push Ups	shoulder	Muscle Snatch	21-15-9	stretching
		10 Kettlebell Deadlift		Overhead squat	One arm dumbbell overhead	
		15m Suitcase Carry		Behind neck snatch grip press	squat	
		10 Kettlebell Front hold lunge		Behind neck snatch grip sots press	Burpee box jump over	
		15m Front hold Carry		Drop snatch		
		10 Kettlebell Press		1		
		15m Overhead carry		(2) Tabata		
				1) Seated leg lift		
				2) Tuck hold		
Week 36	Deadlift	200m run	Ankle,	(1) Deadlift 5 RM	For time	Mobility /
		8 Push up	hip,		3-9-15-21-15-9-3	stretching
		16 Squat	shoulder	(2) Sumo deadlift high pull 5 RM	Deadlift (Rx 93/66 kg)	
		22 Dead bug			Box jump (24/20 inch)	
		16 Squat			J 1 ()	
		8 Push up				
		200m run				
Week 37	Russian	3 Rounds	Hip	(1) Kettlebell swing technique	For time	Mobility /
	Kettlebell	10 Deadlift	1		10-9-8-7-6-5-4-3-2-1	stretching
	Swing	10 Row		(2) Tabata	Burpee box jump	
		10 Lunge		1) Side plank left	Kettlebell swing	
		10 Goblet squat		2) Side plank right		
		10 Push up				
Week 38	Overhead	2 Rounds (each side)	Hip,	E3MOM27	10min AMRAP	Mobility /
	stability	1 Turkish get up	shoulder,	5-10 Scapula pull up + 5 Overhead squat	10 Kettlebell high pull	stretching
	-	5 Windmill	thoracic	2sec:2sec:2sec:2sec (down: hold: up: hold)	5 Burpee	
		5 Kneeling one-arm press	spine			
		10 Row				
		10 Overhead lunge				
Week 39	Rowing erg	2 Rounds	Hip,	(1) EMOM 24	For time	Mobility /
		5 Swimmer	shoulder,	1)7cal Row	20cal Row	stretching
		10 Wall angel	thoracic	2) 15 Sit up	then	
		15 Sit up	spine	3) 10 Thruster	3 Rounds	
		20 Air squat		4) 10 Ring row	20 Deadlift	
					30 Box jump	
				(2) Tabata		
				Hollow hold		

Snatch 10 Deadlift 10 Goblet squat 10 Swing 1 Turkish get up each side 2 Rounds 10 Sming 1 Turkish get up each side 2 Rounds 10 Snatch grip deadlift 10 Snatch grip high pull 10 Snatch grip press 10 Overhead lunge 10 Overhead squats	_
Turkish get up each side Spine S	
Turkish get up each side Week 41 Pull up, Thruster 10 Snatch grip deadlift 10 Snatch grip high pull 10 Snatch grip press 10 Overhead lunge 10 Overhead squats 1	cn
Week 41 Pull up, Thruster Pull up, 10 Snatch grip deadlift 10 Snatch grip high pull 10 Snatch grip press 10 Overhead lunge 10 Overhead squats	
Thruster 10 Snatch grip deadlift 10 Snatch grip high pull 10 Snatch grip press 10 Overhead lunge 10 Overhead squats 10 Overhead squat 10 Over	
Deadlift Snouds	Mobility /
Week 42 Deadlift Thruster Deadlift De	stretching
Week 42 Deadlift 5 Rounds Hip, upper 5 Deadlift (increase weight each round) 21-15-9 10 Wallball shot back 10 Ring row Deadlift 70% of 5 Dumbbell thruster (2) Tabata Hollow hold Week 43 Back Squat 5 min Loaded carries with Ankle, (1) Back squat technique For time	
Week 42 Deadlift 5 Rounds 10 Wall Facing quat upper 5 Deadlift (increase weight each round) 21-15-9 10 Wallball shot 10 Wallball shot 10 Ring row Deadlift 70% of 5 Dumbbell thruster (2) Tabata Hollow hold Week 43 Back Squat 5 min Loaded carries with Ankle, (1) Back squat technique For time	
Week 42 Deadlift 5 Rounds Hip, (1) E3MOM 24 For time 10 Wall Facing quat upper 5 Deadlift (increase weight each round) 21-15-9 Deadlift 70% of 5 Dumbbell thruster (2) Tabata Hollow hold Week 43 Back Squat 5 min Loaded carries with Ankle, (1) Back squat technique For time	
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10 Wallball shot back 10 Ring row Deadlift 70% of 5 Dumbbell thruster (2) Tabata Hollow hold Week 43 Back Squat 5min Loaded carries with Ankle, (1) Back squat technique For time	Mobility /
Dumbbell thruster (2) Tabata Hollow hold Week 43 Back Squat 5min Loaded carries with Ankle, (1) Back squat technique For time	stretching
Week 43 Back Squat 5min Loaded carries with Ankle, (1) Back squat technique For time	RM
Week 43 Back Squat 5min Loaded carries with Ankle, (1) Back squat technique For time	ε
Week 43 Back Squat 5min Loaded carries with Ankle, (1) Back squat technique For time	
dumbhalls (formers weiters hin 5 Days do	Mobility /
dumbbells (farmers, waiters, hip 5 Rounds	stretching
suitcase, etc.) (2) E3MOM 21 10 Deadlift	
5 Back squat + 10 dumbbell row 10 Burpee	
3 Rounds	
1 Turkish get up (each side;	
10sec up, 10sec down)	
10 Slow wall facing squat	
Week 44 Overhead 3 Rounds Shoulder Overhead press For time	Mobility /
press 200m Run Build up to 5 RM 5 Rounds	stretching
10 Burpee 10 Shoulder to ov	erhead (100%
15m Inch worm of strict press 5RM	<i>A</i>)
10 Toes to bar / ki	nees to elbow
Week 45 Pull up 3 Rounds Shoulder (1) EMOM 10 AMRAP 20	Mobility /
10 Walk out 3 Pull up 20cal bike	stretching
10 Sit up	
10 Burpee (1) Tabata 10 Dumbbell snat	ch
1) Hang from bar in hollow position 5 Sit up	
2) Hang from bar in arched position	

Week 46	Front squat	3 Rounds Kettlebell complex	Ankle,	E2MOM 18	AMRAP 20	Mobility /
		10 Deadlift	hip,	5 Paused front squat (3sec) + 10 ring row	15 Box jump	stretching
		10 Goblet squat	shoulder,		12 Shoulder to overhead	
		10 Swing	wirst		9 Toes to bar	
Week 47	Handstand	3 Rounds	Shoulder,	Handstand technique	For time	Mobility /
		10 Walkout	thoracic		100 Squat	stretching
		8 Sit up	spine		80 Lunge	
		6 Lunge			60 Jumping squat	
		4 Hollow rock			40 Jumping lunge	
		2 burpee			20 Pistol squat	
Week 48	Rowing	3 Rounds barbelll complex	Shoulder,	EMOM 20	For Time	Mobility /
	ergometer	15 Deadlift	hip	1) 10 Shoulder press	500m Row	stretching
		15 Row		2) 15 Kettlebell swing	Rest 1min	
		10 Press		3) 15 Sit up	500m Row	
		15 Squat		4) 15 Barbell squat	Rest 1min	
				5) 30sec Single under	500m Row	
Week 49	Back squat	3 Rounds	Ankle,	E3MOM 15	For Time	Mobility /
		10 Air squat	hip	10 Back squat	60cal Row	stretching
		10 Inch worm			40 Wallball shot	
		10 Russian twist			100 Single under	
Week 50	Push press,	3 Rounds	Shoulder,	(1) Push press, push jerk technique	For time	Mobility /
	push jerk	10 Dumbbell deadlift	thoracic		1000m Row	stretching
		10 Dumbbell row	spine,	(2) E2MOM 14	50 Thruster	
		10 Dumbbell press	wirst	3 Push Press (hold overhead position for 5sec)	50 Kettlebell Swing	
		20m Dumbbell overhead carry				
Week 51	Thruster	2 Rounds	Shoulder,	E2MOM 20	AMRAP 20	Mobility /
		10 Clean grip deadlift	hip	5 Thruster (hold bottom position 3sec)	250m Row	stretching
		10 Clean grip highpull			10 Thruster	
		10 Clean grip press			10 Sit up	
		10 Front rack lunge			10 KB Swing	
		10 Front squat				
Week 52	Double under	2 Rounds	Ankle,	Double under technique	For Time	Mobility /
		15cal Row	wrist		100-80-60-40-20	stretching
		15 Jumping jack			Air squat	
		5 Inch worms			Mountain climber	
					Double under	
					every 2min 5 burpee	