





Staci Wilson, oly, cscs, usaw-l1sp, c-issn

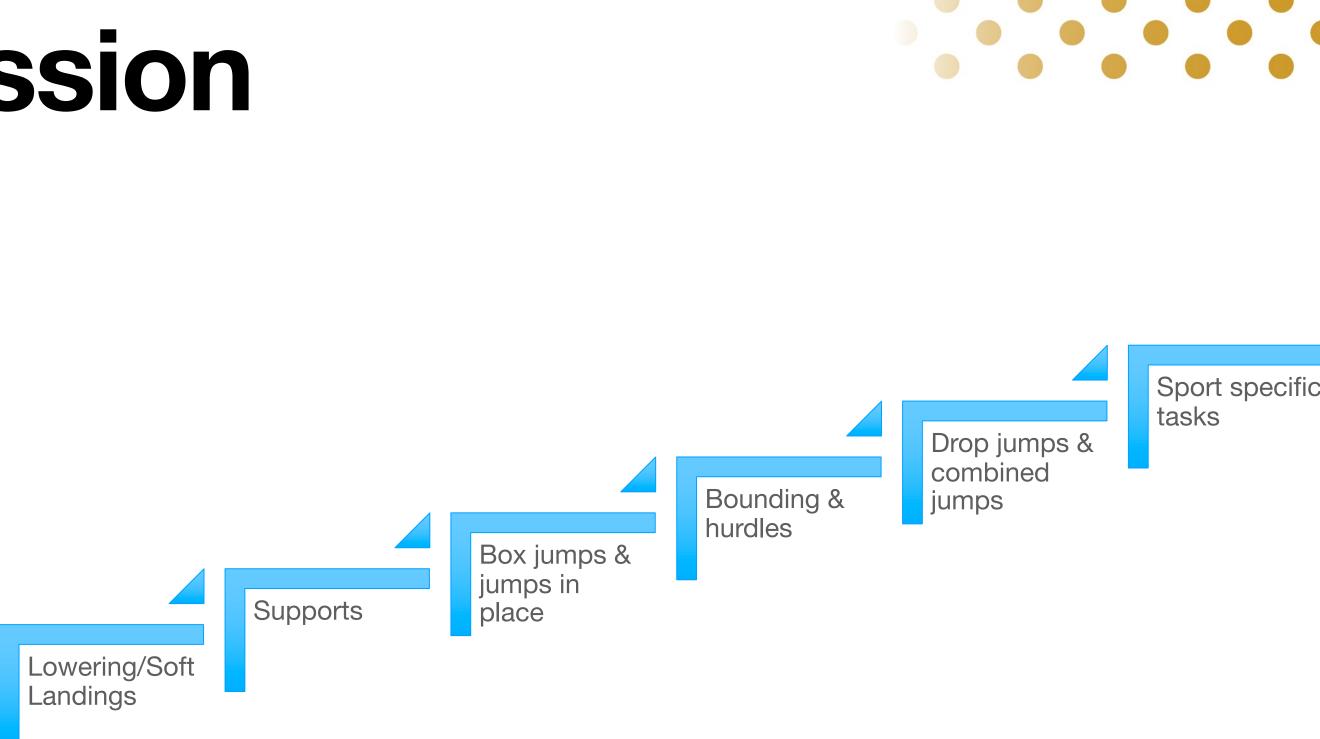
NSCAA All-American

- NCAA National Champion / All-American
- USWNT 1996 Olympics, Gold Medal
- WUSA Champion, Carolina Courage
- W-League Champion, Raleigh Wings
- **US Soccer B-License**
- NSCA Certified Strength and Conditioning Specialist **ISSN Certified Sports Nutritionist**
- USA Weightlifting Sports Performance Coach
- AFAA Practical Pilates Certification
- AFAA Practical Yoga Certification
- United Soccer Coaches, DOC Diploma
- US Soccer Foundation, National Training Team **US Soccer Federation, Grassroots Instructor** Founder of Fit for Her Football, Inc.



Plyometrics Progression

- Lowering load & soft landings
- 2. "Supports"
- 3. Box jumps and jumps in place
- Bounding and hurdles

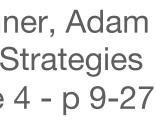


- 5. Drop jumps and combined jumps
- Sport specific tasks

Fort-Vanmeerhaeghe, Azahara PhD1,2,3; Romero-Rodriguez, Daniel PhD1; Lloyd, Rhodri S. PhD, CSCS*D4; Kushner, Adam BS, CSCS5; Myer, Gregory D. PhD, CSCS*D5,6,7,8 Integrative Neuromuscular Training in Youth Athletes. Part II: Strategies to Prevent Injuries and Improve Performance, Strength and Conditioning Journal: August 2016 - Volume 38 - Issue 4 - p 9-27

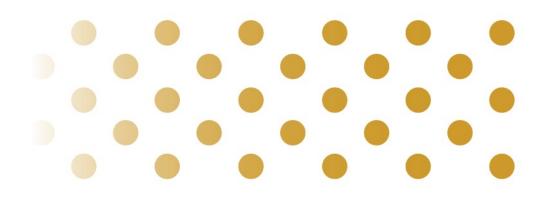


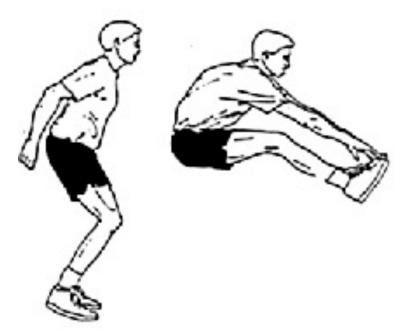




Types of Jumps

- In Place
- Standing
- Box
- Multiple hops and jumps
- Bounding
- Depth jumps
- Sport specific drills





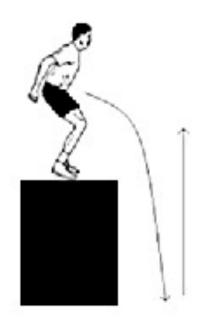




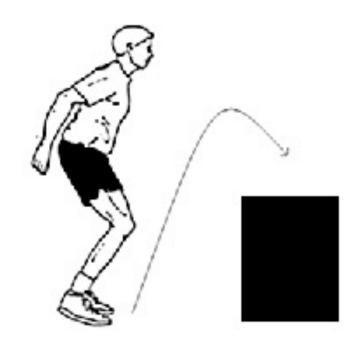
Pike jump

Squat jump

Tuck jump



Depth jump (35 and 60 cm)



Box jump (35 and 60 cm)

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	Phase 1	Phase 2	Phase 3	Phase 4
Phase and Training Focus	Technique and General Strength	Eccentric Strength, Stability and Alignment	Stretch-Shorten Cycle Propulsive Power and Landing Phase	Sport-Specific Jump-Landing
	Strength Endurance	Eccentric Strength	Relative Strength	Relative Strength and Muscular Power
Strength Training	Assisted, bodyweight or resisted exercises e.g. squats, single leg squats, lunges	Resisted exercises, increased load and decrease stability e.g. barbell lunges and lateral crossover step ups	Resisted exercises, increased load and speed of movement e.g. Deadlifts and hip thrusts	Resisted exercises, multidirectional, increased load, fast explosive exercises if strong enough e.g. Olympic lifts (Power Clean, Snatch)
	Reps(≥12) Sets(2-3) Rest(≤30sec)	Reps(6-12) Sets(3-6) Rest(30sec-1.5min)	Reps(≤6) Sets(3-5) Rest(2-5min)	Reps(≤5) Sets(3-6) Rest(2-5 min)
Balance Training	Proprioception	Dynamically Static	Dynamic	Perturbed Dynamic
	Static balance drills, eye open/closed, stable/unstable surfaces e.g. single leg balance drills	Static and dynamic drills in place e.g. single leg medicine ball catch and throw, swings on toes	Dynamic drills in motion e.g. drills that step or jump onto unstable surfaces, jumping swings	Perturbed and dynamic drills e.g. jumping and catching medicine balls , travelling swings
	Duration(≤30sec) Reps(5-10) Sets(2-3) Rest(≤30sec)	Duration(30-60sec) Reps(10-20) Sets(2-3) Rest(≤30sec)	Duration(≤10sec) Reps(5-10) Sets (3-5) Rest(≤30sec)	Duration(≤10sec) Reps(6-12) Sets(3-6) Rest(≤30sec)
	Long Response	Eccentric Response	Short Response	Sports Specific
Plyometric Training	Single jump-landings in place, single plane, bilateral e.g. vertical jumps, jumps onto box, stair jump exercises	Drop-landings, multiple plane, bilateral/unilateral drop and stick exercises, using progressive heights and distances	Multiple jump-landings, take- off and landing focus, bilateral/unilateral e.g. continual hop, bound and stick exercises	Multiple jump-landings, multidirectional, unanticipated and perturbed landing focus e.g. reaction cutting, 3 step jump-landing with turn during flight
	Duration(3-5sec) Reps (5-10) Sets(2-3) Rest(≤30sec)	Duration(3-5sec) Reps(6-12) Sets(2-4) Rest(30sec-1.5min)	Duration(1-5sec) Reps(≤6) Sets(3-5) Rest(2-5min)	Duration(1-5sec) Reps(≤5) Sets(3-6) Rest(2-5min)
Phase Duration and Frequency	6-12 weeks 2-3 sessions a week	6-12 weeks 2-3 sessions a week	5-10 weeks 1-3 sessions a week	5-10 weeks 1-2 sessions a week



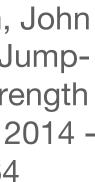
Jump Landing Training Progression Model

Mothersole, Guy MSpEx1; Cronin, John B. PhD1,2; Harris, Nigel K. PhD1 Jump-Landing Program for Females, Strength and Conditioning Journal: August 2014 -Volume 36 - Issue 4 - p 52-64

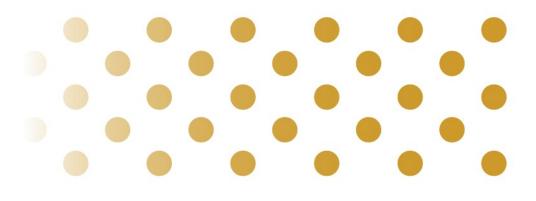
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Weeks	Exercises	Sets/ Repetitions
1-2	Forward/backward hops	-2×8
	Lateral hops	-2×8
	Power skips	-3×8
3-4	Forward hops over 6-inch cone	-2×8
	Lateral hops	-3×12
	Single leg hops (both legs)	-2×10
5-6	On and off box jumps (12-inch)	-2×10
	Lateral hops over 10-inch hurdles	-3×6
	Power skips	-4×8
	Toe taps on soccer ball	-2×12
7–8	On and off box jumps (12 and 18 inch)	-2 × 12
	Box drop jumps for height	-3×10
	Single leg hops over agility cone (both legs)	-2×8
	High knees over 10-inch hurdles	-4 × 10



Comments

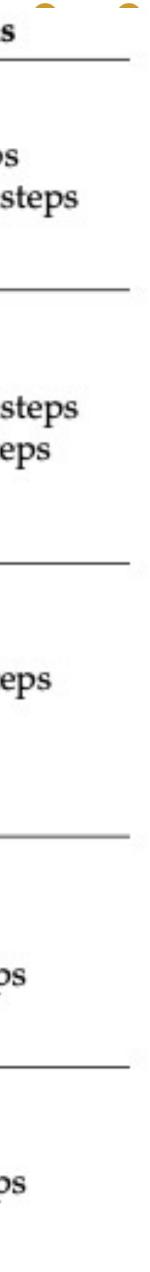
Can increase sets and repetitions as needed 1 exercise at a time Easily introduce cone- and stress-controlled quality over quantity Box height is a suggestion, may need different heights for different athletes

Progressions should be individualized based on quality and quantity of performance

Plyometric training program example based on current research recommendations



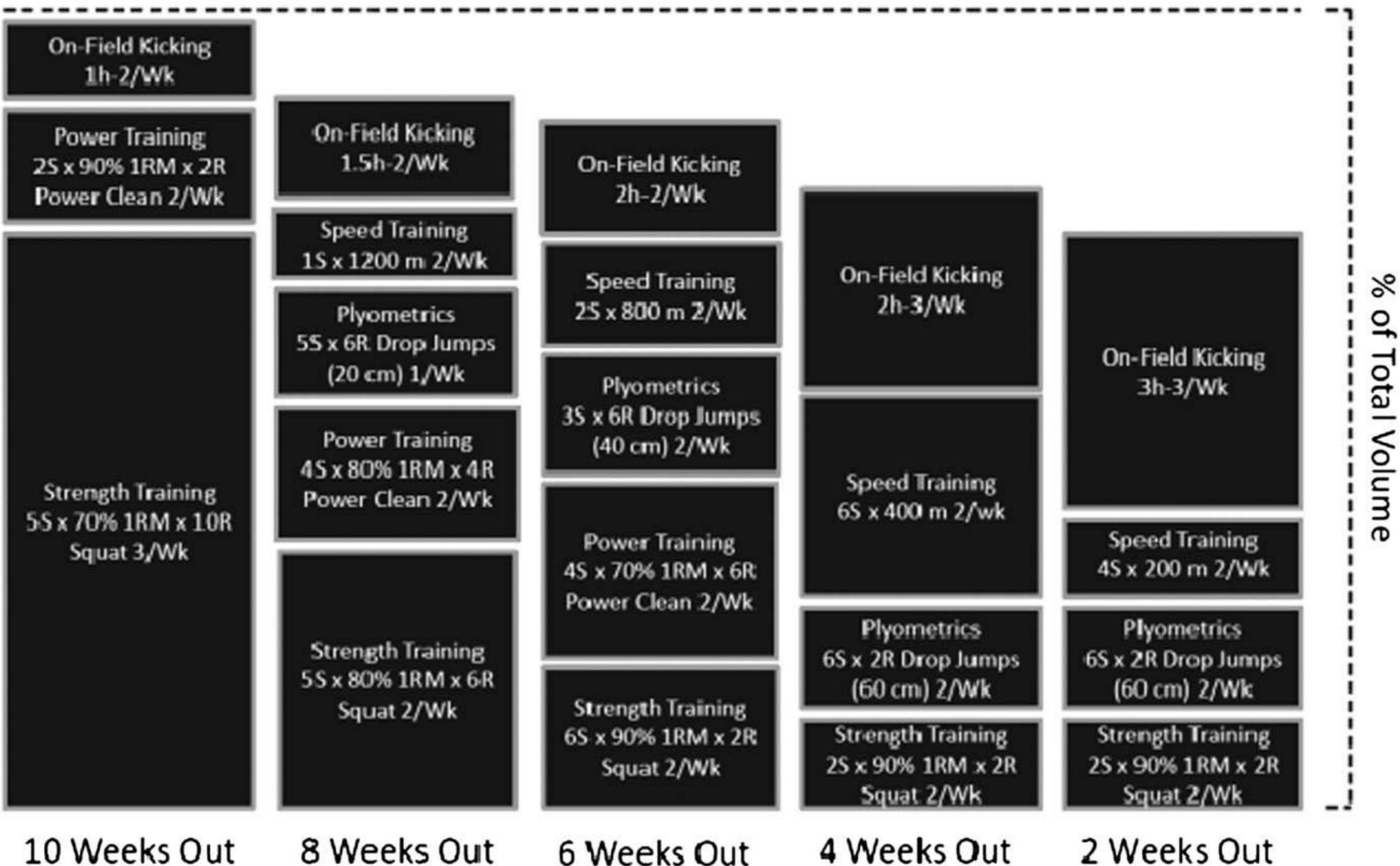
	Weeks	Balance Drills	SAQ Drills	Jump Rope Drills
Training protocol of balance, SAQ, and jump rope drills lasting ~30 min. The duration of these elements was ~8 min each with a 2 min of rest in between.	Week 1 to 2	One-leg standing on unstable surfaces (i.e., trampoline and wobble board) while moving the upper body with and without eyes open.	Basic footwork exercises (split-steps, line drills, lateral line, and multiple hops) with no equipment followed by brief linear sprints over 5 m	Basic bounce steps Double basic bounce ste
	Week 3 to 4	From an unstable surface: (a) short jumps with a 90° body rotation and landing on a single stance; (b) short jumps with a 180° body rotation and landing on single-leg stance	Basic footwork exercises (skipping, hopscotch, in&out drills) over the speed-ladder followed by brief sprints with 1–3 change of directions at 30° and 45° over 10 m	Double basic bounce ste Alternate bounce step
	Week 5 to 6	Stepping forward and backward with and without assistance on the slackline	Advanced footwork exercises (foot exchange, icky shuffle, hip twist) over the speed-ladder followed by brief sprints with 3–5 change of directions at 30°, 45°, and 90° over 10 m	Alternate bounce step Scissors steps
	Week 7 to 8	Walking forward and backward with and without assistance on the slackline	Combination of basic and advanced footwork exercises with basic agility drills in response to stimuli (brief acceleration and deceleration)	Scissors steps Double under steps
	Week 9 to 10	Lowe-limb swinging while standing on a single leg stance with and without assistance on the slackline	Combination of basic and advanced footwork exercises with advanced agility drills in response to stimuli (chasing runs and mirror drills)	Double under steps



Plyometrics and Kicking Power

A preseason program

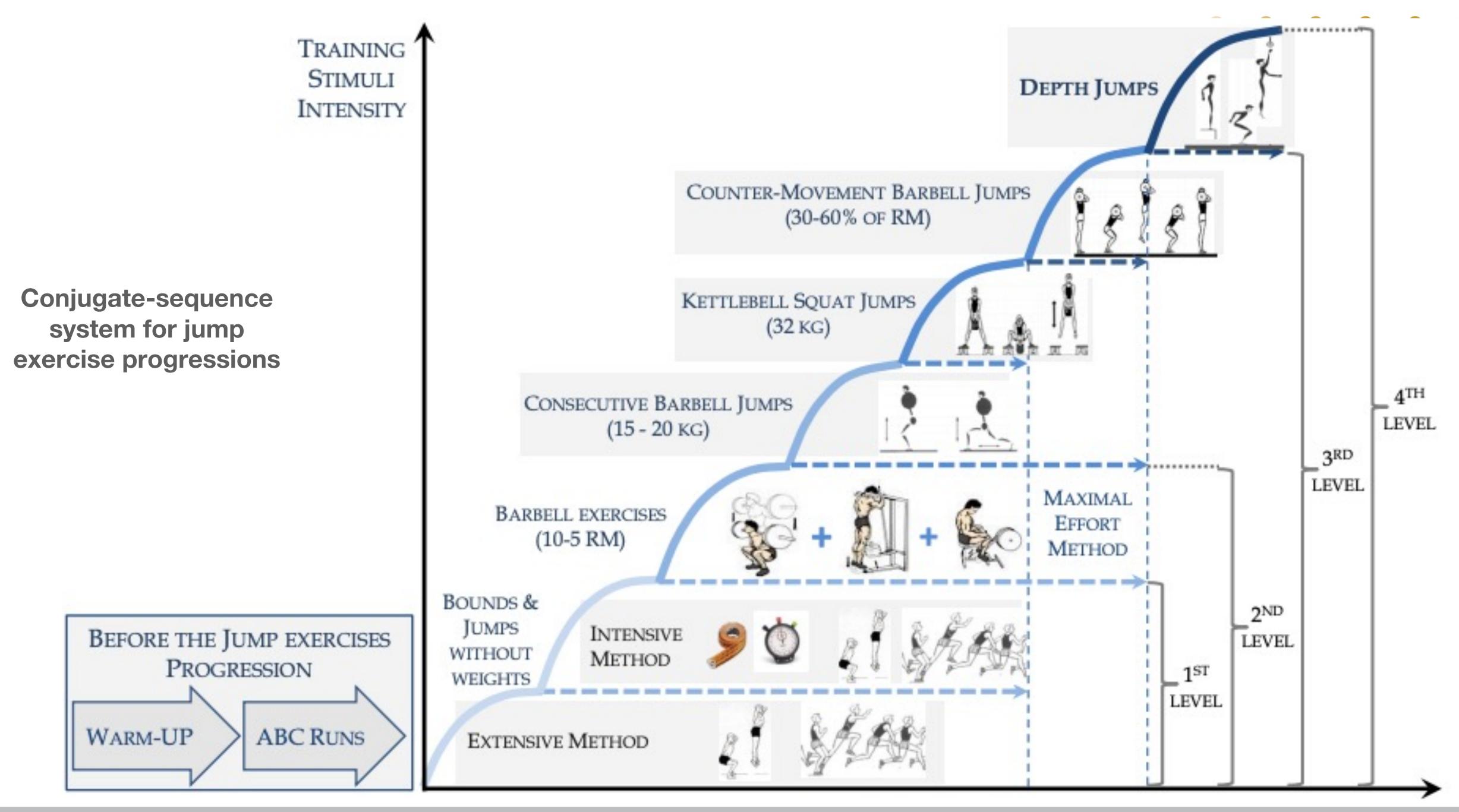
Haines, Tracie L. MS; Erickson, Travis M. MS; McBride, Jeffrey M. PhD Kicking Power, Strength and Conditioning Journal: December 2012 -Volume 34 - Issue 6 - p 52-56



10 Weeks Out

8 Weeks Out

Total Volume

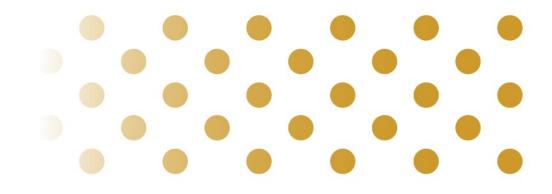




Jump Training Recommendations Training Load, Repetitions, Volume, Rest

Low level - Ankle height

- Beginner
- 50-75 jumps / session
- ~150 jumps / week



Mid Level- Knee height

- Experienced players
- ~100 jumps / session
- ~50% of session in mid height range

Plyometric Circuit 1

SL MB throw	Jump rope
x5 / leg	x30 seconds
Kneeling medicine ball chest pass	Jump and single-leg stick
x8	x 5 / leg
Kneeling overhead medicine ball pass	Hop and single-leg stick
x8	x 5 / leg
Split stance single-arm medicine ball chest pass x8 / arm	Tuck jump x5 / leg
Split stance overhead throw x5 / leg	One step forward and jump x 10 steps
Broad jump	Squat Jump
x10	x20
Max velocity jumps x10	
Power skip x10 per leg	Do 2-4 rounds. Allow full rest between exercises.



Medicine Ball Plyometrics Wall / Partner Circuit

Exercise

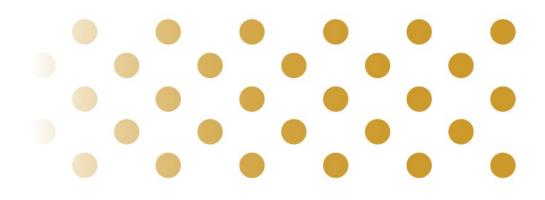
Squat - Chest Pas

Single Leg Squat - Ches

Standing Lateral - H

Standing Linear - H

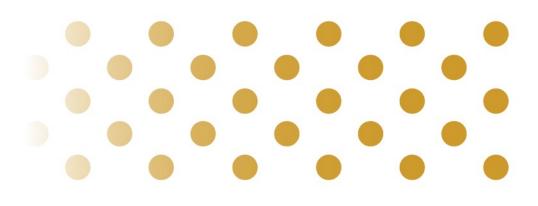
Around the Back -



	Reps		
SS	8 - 12		
est Pass	8 - 12		
Hip	8 - 12		
Hip	8 - 12 / side		
Hip	8 - 12 / side		

Upper Body Plyometrics

- Pushups depth, clapping, medicine ball variations
- Seated, kneeling, ¹/₂ kneeling, or standing medicine ball throws
- Linear or lateral wall throws OH, shoulder, chest, hip
- Medicine ball slams linear, rotational
- Overhead elbow extension medicine ball wall slams single arm
- Plyo pull-ups



Advanced Level - Power Endurance Circuits

Power Endurance Complex #1			
Medicine Ball Exercises	Sets x Reps	Bodyweight Exercises	Sets x Reps
MB Snatch	3 x 8	Split Cycle Jump	3 x 10 / leg
MB Squat	3 x 8	Pullup / Flexed-arm Hang	3 x 10
MB Good Morning	3 x 8	Lateral Alternating Power Step-ups	3 x 10 / leg
MB OH Linear Slam	3 x 8	T-Stabilization Push-up	3 x 10 / arm
MB Push Jerk	3 x 8	SL Max Velocity Bound	3 x 10 / leg

Power Endurance Complex #2				
Medicine Ball Exercises	Sets x Reps	Bodyweight Exercises	Sets x Reps	
MB Jump Slam	3 x 10	Split Cycle Jump	3 x 10 / leg	
MB Front Lunge	3 x 10	Pullup / Flexed-arm Hang	3 x 12	
MB Hip Bridge	3 x 10	Lateral Box (or 2-mini hurdle) Step- overs	3 x 10 / side	
MB Rotation Slam	3 x 10 / side	T-Stabilization Push-up	3 x 10 / arm	
MB Floor Chest Press	3 x 10	SL Max Velocity Bound	3 x 10 / leg	



United Soccer Coaches Online Sports Performance Diploma

Module 1

- Topic 1 Physiological Demands of the Game
- Topic 2 Long Term Athlete Development
- Topic 3 Soccer Periodization

Module 2

- Topic 4 Energy System Development in Soccer
- Topic 5 Speed Development in Soccer
- Topic 6 Speed Endurance Development in Soccer

Module 3

- Topic 7 Technology in Soccer
- Topic 8 Field and Laboratory Testing
- Topic 9 Monitoring Tools in Soccer

Module 4

- Topic 10 Strength Training On and Off the Field
- Topic 11 Power Training for Soccer Players
- Topic 12 Nutrition





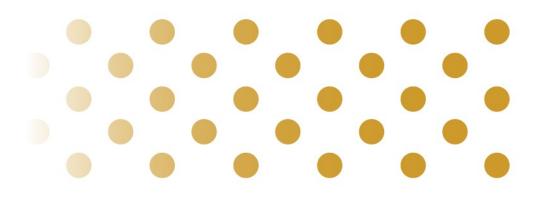


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