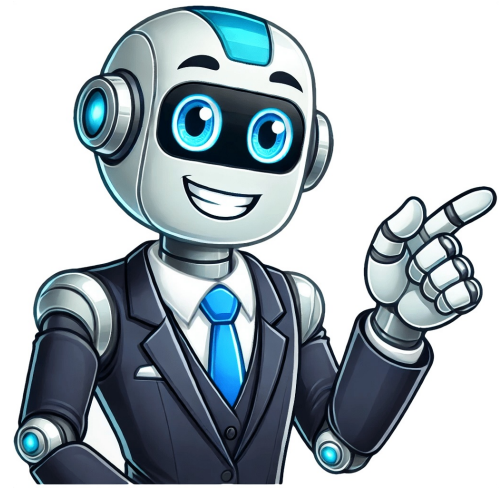


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you think of a swimmer's body, you probably imagine- broad shoulders, big lats, anwell-defined abs- but something many overlook is the leg muscles. Just as the upper body plays an essential role in swimming, so does the lower half. And it's probably no surprise that in some swimming events, the legs might even be more dominant than the upper body. So if you want to become a better and faster swimmer, then optimizing your leg muscles' strength and power is critical. This is why, in today's article, we'll focus on some of the best leg exercises for swimmers to strengthen all of the leg muscles. We'll also have a quick look at some other aspects, such as the vital role the legs play in swimming. What The Exercise Does: The single-leg Romanian deadlift primarily strengthens your glutes, hamstrings, calves, and oblique muscles, as well as strengthening a few of your back muscles. The exercise also improves balance and posture while developing a powerful kick and good body position in the pool. How To Do It: Hold a weight such as a dumbbell or a kettlebell in one or both hands, depending on what you find most comfortable. Then draw your shoulder blades together and down and brace your core. Next, lift one leg slightly off the floor. While focusing on maintaining a neutral neck position and straight back, bend your hips forward so that your torso moves towards the floor. Your one leg will naturally extend out behind you. Continue moving towards the floor as far as possible while ensuring your shoulder blades stay back and your chest slightly out. You should feel a nice stretch in your glutes and hamstrings. Once the weight is hovering just above the floor, start moving back up again. You can briefly touch the floor and then push off with a fast and powerful kick and underwater. How To Do It: Stand with your feet hip-width apart and face a plyometric box. Brace your core, lower into a half squat, and tilt your upper body slightly forward. As you jump onto the box, make sure to use your arms for momentum and balance. Start by using a lower box and work towards more height as you become better at the exercise. Make sure to land with both feet simultaneously, and ensure that the entire length of your feet is on the box as you land. Make it your goal to land as quietly as possible, as it will mean your muscles absorb most of the impact and not your joints. Repeats And Sets: 6-10 reps for 2-3 sets. What The Exercise Does: Strengthens the entire posterior chain, including the glutes, quads, hamstrings, calves, and core. Builds strength and power, ensuring strong kicks, push-offs, underwaters, and starts. How To Do It: In the squat rack, stand with your feet roughly shoulder-width apart in a comfortable and robust stance. Ensure that your hands are even on both sides of the bar. Take a deep breath, brace your core, lift your chest and unrack the bar. Then walk 1-2 steps back, and make sure that all your muscles are still tight and braced. Next, squat down until the bottom of your glutes are just below your knees. Afterward, push back up into the starting position and repeat. Make sure that your back stays straight, and your core braced throughout the entire exercise. Also, ensure that your knee doesn't move over your toes as you perform the exercise. I recommend starting with a lighter load or simply with the bar alone while perfecting your technique. Once your form is good, slowly add weight as you get stronger. If you do not have the required equipment, you can try bodyweight squats or goblet squats. Repeats And Sets: 12-15 reps for 3-4 sets. What The Exercise Does: Strengthens the abductors, adductors, quads, hamstrings, glutes, and calves. It also opens up the groin and hip flexors, improving hip rotation vital in swimming, especially for strokes such as freestyle. How To Do It: Stand with your feet shoulder-width apart and hold a single kettlebell with both hands in front of your thighs. Bend your knees and lean forward, keeping your back straight and your core braced. Push the kettlebell up towards the ceiling, extending your arms and legs fully. Then, slowly lower the kettlebell back down to the starting position, controlling the descent. Repeats And Sets: 10-12 reps for 2-3 sets. What The Exercise Does: Great exercise for developing strength and power primarily in the quads and glutes while also engaging the hamstrings, calves, adductors, and core muscles. Furthermore, it helps to develop a strong kick, start, and push-offs. How To Do It: Stand about half a meter (2 feet) in front of a bench facing away from it. You can perform the exercise with only your body weight, or you can hold a dumbbell in each hand to make it harder. Place one leg behind you with the top of your foot on the bench facing down and pointing directly back. Maintain good posture, pull your shoulders back, and keep your chest high. Then brace your core and squat down with the front leg until your back knee is just above the ground. Make sure that your front knee doesn't go over your toes. Push back up and repeat all your reps on one leg before switching to the other. Repeats And Sets: 8-12 reps for 3-4 sets. What The Exercise Does: Develops explosive power and strength in the quads, hamstrings, glutes, and calves. Great for developing a good start and push-offs. It also helps to build fast and powerful underwaters. How To Do It: Place your feet slightly wider than shoulder-width apart with your hands behind your head or locked together and positioned just in front of your chest. Brace your core and squat down until the bottom of your butt is just below the knee joint while ensuring your back knee is just above the ground. Push back up and repeat. Repeats And Sets: 10-12 reps for 2-3 sets. What The Exercise Does: It's an excellent all-around leg exercise that strengthens the quads, hamstrings, glutes, and calves while working your balance. Additionally, it helps to develop a strong kick. How To Do It: Stand with good posture while you position your feet roughly shoulder-width apart. You can place your hands on your hips or hold a dumbbell in each hand to make the exercise more challenging. You may also opt for a barbell if you have access to it. Next, brace your core and if you've opted for dumbbells, make sure to pull your shoulder blades back and down. Take an exaggerated step of around half a meter (2 feet) forward, then lower your hips until your front leg is parallel to the ground or as far down as you feel comfortable and your back knee is sitting just above the floor. Make sure that your front knee doesn't go over your toes as you step forward. Then, step up so that both your legs are next to each other again. From there, step forward with the opposite leg so that it's now the front leg. Continue alternating with each step until you've completed your set. Repeats And Sets: 8-15 reps per leg for 3-4 sets. The leg muscles play many critical roles in swimming- more than you might initially think. Let's have a look at some of them. One of the most prominent and essential roles of the legs in swimming is the kick. Whether you are a sprinter or long-distance swimmer, a fast and robust kick in the water is crucial for achieving maximum speed and performance. One study published in the BioMed Research Journal found that the leg kick alone contributed to an average of 31% of the generated force for a 30s fully tethered freestyle swimmer. This might be slightly lower than you would expect. Nevertheless, it's still a significant contribution to the overall force. And it can have a substantial effect on swimming speed when maximized. It's also important to remember that the legs will most likely contribute to a higher percentage of force depending on the stroke and event. Additionally, the legs play a vital role in maintaining a good body position in the water. A strong, powerful kick can help you maintain a high body position in the water with your lower body. Good underwaters are single-handedly one of the most important aspects of becoming a faster and better swimmer. Top coaches worldwide are implementing various tactics and training techniques to improve their swimmers' underwaters. Once again, underwater dolphin kicks consist of a whole-body movement. Still, undoubtedly the legs play an essential role in developing a fast and powerful underwater dolphin kick. Leg exercises (as with all dryland exercises) are a great way to boost your swimming performance and become a more well-rounded swimmer. Remember to always warm up properly before performing any dryland or strength training. The benefits of swimming for swimmers, and how to add them to your training routine for peak performance. 1. Bench Press The bench press is a classic upper-body strength training exercise that can be done with a barbell or dumbbell. The bench press builds upper body strength, which is crucial for swimmers to generate power during the pulling phase of the stroke. The American College of Sports Medicine (ACSM) found that swimmers who performed bench press training experienced a 10% increase in their 100m sprint time. 2. Squats Squats are a compound strength training exercise that targets the lower body, especially the quads, glutes, hamstrings, and lower back. Squats give swimmers the power to push off the wall with force, kick with more power, and launch themselves off the block like a rocket blasted into space. They are also a sneaky exercise for a stronger trunk, which can help streamline the body and exert power through the upper body and the lower body. A study with a group of internationally-ranked male swimmers showed that start performance-how long it took for swimmers to reach 15m-was linked to lower body power and strength. Another paper we mentioned earlier (Keiner et al., 2021) noted that 1RM squat positively correlated with swimming power and swim start performance. Implementing squats into your strength training routine can be approached in a few different ways. Beginner swimmers untrained in the gym have a bunch of squat variations they can use to master the movement, from bodyweight squats to squats with a barbell. For more advanced swimmers, squats can be used to build strength and power. 3. Deadlifts Deadlifts are a compound strength training exercise that targets the lower body, especially the quads, glutes, hamstrings, and lower back. Deadlifts are a great way to build strength and power in the lower body, which is crucial for swimmers to generate power during the pulling phase of the stroke. The American College of Sports Medicine (ACSM) found that swimmers who performed deadlift training experienced a 10% increase in their 100m sprint time. 4. Lunges Lunges are a compound strength training exercise that targets the lower body, especially the quads, glutes, hamstrings, and lower back. Lunges are a great way to build strength and power in the lower body, which is crucial for swimmers to generate power during the pulling phase of the stroke. The American College of Sports Medicine (ACSM) found that swimmers who performed lunge training experienced a 10% increase in their 100m sprint time. 5. Core Exercises Core exercises are essential for swimmers to maintain a strong and stable core, which is crucial for maintaining a good body position in the water. Core exercises include planks, side planks, and Russian twists. The American College of Sports Medicine (ACSM) found that swimmers who performed core training experienced a 10% increase in their 100m sprint time. 6. Cardio Cardio is essential for swimmers to maintain a high level of cardiovascular fitness, which is crucial for maintaining a good body position in the water. Cardio exercises include running, cycling, and swimming. The American College of Sports Medicine (ACSM) found that swimmers who performed cardio training experienced a 10% increase in their 100m sprint time. 7. Flexibility Flexibility is essential for swimmers to maintain a good body position in the water. Flexibility exercises include stretching, yoga, and Pilates. The American College of Sports Medicine (ACSM) found that swimmers who performed flexibility training experienced a 10% increase in their 100m sprint time. 8. Nutrition Nutrition is essential for swimmers to maintain a high level of performance. Nutrition includes a balanced diet of carbohydrates, proteins, and fats. The American College of Sports Medicine (ACSM) found that swimmers who followed a balanced diet experienced a 10% increase in their 100m sprint time. 9. Rest and Recovery Rest and recovery are essential for swimmers to maintain a high level of performance. Rest includes taking breaks during training and getting enough sleep. The American College of Sports Medicine (ACSM) found that swimmers who rested properly experienced a 10% increase in their 100m sprint time. 10. Coaching Coaching is essential for swimmers to maintain a high level of performance. Coaching includes working with a coach to develop a training plan and receive feedback. The American College of Sports Medicine (ACSM) found that swimmers who had a coach experienced a 10% increase in their 100m sprint time. 11. Equipment Equipment is essential for swimmers to maintain a high level of performance. Equipment includes a swim cap, goggles, and a swimsuit. The American College of Sports Medicine (ACSM) found that swimmers who used proper equipment experienced a 10% increase in their 100m sprint time. 12. Mental Training Mental training is essential for swimmers to maintain a high level of performance. Mental training includes visualization, goal setting, and positive self-talk. The American College of Sports Medicine (ACSM) found that swimmers who practiced mental training experienced a 10% increase in their 100m sprint time. 13. Water Training Water training is essential for swimmers to maintain a high level of performance. Water training includes practicing strokes, starts, and turns in the pool. The American College of Sports Medicine (ACSM) found that swimmers who practiced water training experienced a 10% increase in their 100m sprint time. 14. Dryland Training Dryland training is essential for swimmers to maintain a high level of performance. Dryland training includes strength training, cardio, and flexibility exercises. The American College of Sports Medicine (ACSM) found that swimmers who practiced dryland training experienced a 10% increase in their 100m sprint time. 15. Consistency Consistency is essential for swimmers to maintain a high level of performance. Consistency includes training regularly and following a training plan. The American College of Sports Medicine (ACSM) found that swimmers who trained consistently experienced a 10% increase in their 100m sprint time. 16. Patience Patience is essential for swimmers to maintain a high level of performance. Patience includes understanding that progress takes time and not getting discouraged. The American College of Sports Medicine (ACSM) found that swimmers who were patient experienced a 10% increase in their 100m sprint time. 17. Support Support is essential for swimmers to maintain a high level of performance. Support includes having a support system of family, friends, and coaches. The American College of Sports Medicine (ACSM) found that swimmers who had support experienced a 10% increase in their 100m sprint time. 18. Goal Setting Goal setting is essential for swimmers to maintain a high level of performance. Goal setting includes setting specific, measurable, achievable, relevant, and time-bound goals. The American College of Sports Medicine (ACSM) found that swimmers who set goals experienced a 10% increase in their 100m sprint time. 19. Positive Mindset Positive mindset is essential for swimmers to maintain a high level of performance. Positive mindset includes believing in yourself and your abilities. The American College of Sports Medicine (ACSM) found that swimmers who had a positive mindset experienced a 10% increase in their 100m sprint time. 20. Hard Work Hard work is essential for swimmers to maintain a high level of performance. Hard work includes putting in the time and effort to train hard. The American College of Sports Medicine (ACSM) found that swimmers who worked hard experienced a 10% increase in their 100m sprint time. 21. Dedication Dedication is essential for swimmers to maintain a high level of performance. Dedication includes being committed to your training and your goals. The American College of Sports Medicine (ACSM) found that swimmers who were dedicated experienced a 10% increase in their 100m sprint time. 22. Discipline Discipline is essential for swimmers to maintain a high level of performance. Discipline includes following a training plan and not getting distracted. The American College of Sports Medicine (ACSM) found that swimmers who were disciplined experienced a 10% increase in their 100m sprint time. 23. Focus Focus is essential for swimmers to maintain a high level of performance. Focus includes concentrating on your training and your goals. The American College of Sports Medicine (ACSM) found that swimmers who were focused experienced a 10% increase in their 100m sprint time. 24. Determination Determination is essential for swimmers to maintain a high level of performance. Determination includes not giving up and pushing through challenges. The American College of Sports Medicine (ACSM) found that swimmers who were determined experienced a 10% increase in their 100m sprint time. 25. Perseverance Perseverance is essential for swimmers to maintain a high level of performance. Perseverance includes sticking to your training and your goals, even when it's difficult. The American College of Sports Medicine (ACSM) found that swimmers who persevered experienced a 10% increase in their 100m sprint time. 26. Resilience Resilience is essential for swimmers to maintain a high level of performance. Resilience includes bouncing back from setbacks and not getting discouraged. The American College of Sports Medicine (ACSM) found that swimmers who were resilient experienced a 10% increase in their 100m sprint time. 27. Adaptability Adaptability is essential for swimmers to maintain a high level of performance. Adaptability includes being able to adjust to changes in your training and your goals. The American College of Sports Medicine (ACSM) found that swimmers who were adaptable experienced a 10% increase in their 100m sprint time. 28. Flexibility Flexibility is essential for swimmers to maintain a high level of performance. Flexibility includes being able to change your mind and your goals. The American College of Sports Medicine (ACSM) found that swimmers who were flexible experienced a 10% increase in their 100m sprint time. 29. Open-mindedness Open-mindedness is

