Baare

Life is like riding a bicycle.
To keep your balance, you
must keep moving.

—Albert Einstein





In this first chapter, we will look closely at our first, most foundational simple move: Balance. Chapter 1 explores:

- 1 Different types of balance
- 2 Why balance is so important
- 3 How aging and inactivity impacts your balance
- 4 How to test your balance
- 5 Simple moves you can do to improve your balance
- 6 Recommended balance programs, tools and more

Brian: From "Spaz-im" To "Stud"— The Power Of Balance Training

Brian was a middle-aged truck driver who found himself in the doctor's office with significant pain and discomfort from an injured shoulder and wrist. Brian had injured himself when he fell while getting out of his truck, landing directly on his right arm and shoulder.

His family physician, Doctor James, listened as Brian shared what happened: "Doc, I don't know what's wrong with me. I just can't seem to find my footing! I keep stumbling and slipping. It started with a few trips, then a couple of spills, but I was always able to catch myself before really getting hurt. But this time, I just couldn't stop myself from falling right on the pavement—SMACK!" Doctor James looked at Brian's shoulder and wrist, and then performed some ear and eye examinations and other assessments. After ruling out inner ear and vision problems, Doctor James asked Brian to do some simple movement tests. After completing the tests, Doctor James asked Brian what his exercise and activity habits had been over the last few years. Brian replied: "Well doc, I just don't have the ability to exercise with my job. I am on the road all the time—I usually don't roll into a town until late at night and then I'm up early the next morning. Makes it tough to do any kind of exercise."

Doctor James asked, "When is the last time you exercised?"

"Well, I used to play softball on a regular basis, but it's been quite a while—maybe two or three years," Brian said. "Come to think of it, that's when I started noticing I couldn't hit very well and kept stumbling when running around the bases."

Doctor James smiled and said: "Brian, I believe your slipping and falling challenge is primarily due to a weakening of your balance systems."

"My what?!" shouted Brian.

"You see, your ability to balance your body—whether you are standing still or moving—is dependent upon your inner ear, vision and the intricate communication system between your brain, nerves, joints and muscles. If this communication system isn't used enough, it gets weak and the signals don't work as well—nor does your body respond as quickly when you need it to. Because you are sitting the majority of the day while driving, your muscles and joints have become weaker, and your communication system between your nervous system, brain and body has become sluggish and slower," noted Doctor James.

"Is it something I can fix?" asked Brian. Doctor James put his hand on Brian's shoulder, smiled and said, "Yes, absolutely it is something you can fix. You can retrain your communication system to work automatically—the way it used to when you were younger and active. I am going to give you some simple movements you can use on a daily basis to retrain your body and your brain to work together to help improve your balance."

Doctor James treated Brian for his dislocated shoulder

and sprained wrist, and then prescribed some simple moves to help him improve his balance and strength. Three months later, Brian's shoulder and wrist were completely healed and he had faithfully been doing his simple moves to strengthen his balance.

Brian had made the time to do his simple moves outside of his truck at every rest stop on road trips. Not only did Brian find his footing, he felt stronger and more confident again, and even joined a softball league that played twice a week! (Oh, and by the way, Brian led that team in

homeruns last season!)

Balanc

What Is Balance?

The dictionary defines balance as "a physical equilibrium or stability produced by even distribution of weight on each side of the vertical axis." Whew! That's a mouthful! While it sounds fancy, this definition is a bit limited and too technical-sounding for my taste. I prefer to view balance as one's ability to maintain a center of gravity.

Our body will constantly try to find a "center" or equilibrium at all times, whether we are standing still or moving. There's an intricate interconnection between the brain, inner ear, nervous system and your muscles, ligaments and tendons—and they're all working together in perfect harmony to help your body stay upright.

BRAIN TRAIN

The simple skill of balancing your body when standing on one foot, climbing out of a truck, or even walking is dependent upon an intricate communication system between your brain, nervous system, muscles, ligaments and tendons. It's called "proprioception" and is your body's unconscious ability to interpret messages about the position of your body and movement. This amazing ability allows you to sense which muscles to activate and contract to achieve a desired motion or position—like raising your arm to scratch your head—without even thinking about it. Unfortunately, if we don't actively use this system, it becomes weaker and slower, and movement becomes more difficult.

By practicing balance training, movement patterns and skills (like riding a bike or driving a car) that once seemed daunting will become simple and automatic, requiring little thought to execute. By training your balance, you can improve proprioception, coordination, strength, agility, and master more complex movements, (think of an athlete catching a ball with one foot in the air, one on the ground and the rest of his/her body parallel to the field). Balance is the foundation to all human movement. Your ability to balance your body impacts all of your daily activity as well as your ability to perform more complex movements.

LOSING YOUR BALANCE

Believe it or not, your natural ability to balance your body (when standing or moving) begins to decline after the age of 25! How fast it declines depends upon how much you move your body and practice balancing. By practicing balance training, you can keep this necessary skill in peak shape.

Two Types Of Balance

STATIC BALANCE. Your ability to maintain your center of gravity in a non-moving position, such as sitting upright on the edge of your chair or standing in line, is highly dependent on strong stabilizing structures in your body, including your ligaments, tendons and muscles.

BENEFIT ➤ The number one benefit to strong static balance is an ability to prevent falling when in a non-moving position—without it you wouldn't be able to sit upright, stand, or shift your weight from one foot to the other. Another important benefit is a strong and healthy posture. By strengthening key stabilizing ligaments, tendons and muscles, you can improve your body posture and alignment significantly—helping you look stronger, younger and healthier.

DYNAMIC BALANCE. Your ability to maintain balance while moving, such as when you're walking, stepping over an object, jogging, jumping, cycling or dancing, is ultimately dependent upon your body working in sync with your brain, vestibular system (vision and inner ear), nervous system, muscles and ligaments.

BENEFIT ➤ A strong sense of dynamic balance enhances your ability to be successful in any movement activity—from the simplest, to the most complex. Dynamic balance allows you the ability to tie your shoes without falling, change direction when jumping over a puddle, and run and turn to catch a fly ball in the World Series.

How Inactivity And Aging Impacts Balance

Have you ever heard the phrase, "If you don't use it, you'll lose it?" Well, when it comes to your balance—this most certainly rings true. Research indicates that as we grow older and less active, our ability to balance our body—both when still or in motion—diminishes significantly.

According to the Centers for Disease Control and Prevention, one of every three Americans over the age of 65 falls each year. Elderly trips, falls and spills are primarily related to an inability and weakening of both static and dynamic balance.

According to Debra Rose, Professor of Kinesiology and Codirector of the Center for Successful Aging at California State University-Fullerton, "As we grow older, our balance and mobility becomes compromised, often for a variety of reasons: lack of lower body strength, altered sensory or motor function, certain medications or diagnoses, or a combination of these variables. When a fall occurs, it often creates such a fear that the older adult becomes even less active. Of course, this lack of physical activity creates even more mobility problems—making the likelihood of falls even more pronounced. It's a downward spiral."

While a number of aging-related issues such as inner ear problems, vision challenges and mobility issues contribute to falls, the good news is that research indicates you can do something about this. Through simple moves and balance training, you can practice and significantly improve your balance skills to reduce the risk of falling—while bringing health, vitality and balance back to the body.

MUSCULAR BALANCE

Technically, there is also one additional aspect to balance that we need to consider—and that's muscular balance. Much of our physical health is dependent upon the health, strength, flexibility and balance of our muscles. Without a proper balance of strength, flexibility and endurance between opposing muscles, such as the front of the leg (quadriceps) and the back of the leg (hamstrings), we are very susceptible to injury, fatigue and weakness.

Muscular Balance = Equilibrium Between Muscles

This is absolutely crucial in avoiding short term and long-term injury and enhancing performance in all-static and dynamic movements.

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It's time to improve your...

Bance

It's time to move...

Balance Move #1: Standing One-Leg Balance

Here's a great simple move to help you improve your balance (specifically your static balance). The best part is, you can do this while on break at work, in the office, or even when combing your hair!

➤ GET READY

You'll need a flat, non-slip surface to stand on and a timing device (such as a watch) to keep track of your time.

➤ GET SET

Standing tall and upright with your feet together, place your hands on your hips.

➤ GO

When you are ready, raise the right knee up, towards your waist-line, while maintaining balance on the left standing leg. Next, place your right foot near the inside of your left kneeand hold.

Next, raise up on the ball of the standing left foot and raise both arms out to the side, raising your arms and hands to shoulder level. Try to maintain balance for up to 30 seconds.

Repeat these steps, three times on each leg.





It's time to improve your...

Balance

Now, try this move...

Balance Move *2: Moving Balance—Walk The Line

Here's a great simple move to help you improve your overall balance (especially your dynamic balance), and one you can also perform throughout your work day—especially when you are walking from one area to another.

➤ GET READY

All you'll need is a flat, non-slip surface to walk on.

➤ GET SET

Standing tall and upright, place one foot in front of the other, heel to toe—then raise your hands and arms out to the side, at shoulder level.

➤ GO

- 1. When you are ready, lean slightly forward and raise the back foot behind you—slightly off the ground—extending your leg and tightening your buttocks.
- 2. Next, balance your weight and raise the non-standing leg and foot out to the side.
- 3. Bring your non-standing foot around and place it in front of the standing foot, heel to toe. Repeat these steps, alternating one foot in front of the other up to 10 times for each foot.



It's time to test your...

Balance

Now it's time to test your balance! How balanced are you? Take a moment to find out...

Balance Test #1: The Stork Balance Test

This test measures your ability to stand in a non-moving position while standing on one leg and on the ball of your foot. This test is a good indicator of how you're doing when it comes to static balance.

➤ GET READY

You'll need a flat, non-slip surface to stand on, a stop watch or clock, a pencil or pen and this book to score your results. Also, be sure to remove your shoes before beginning your test.

➤ GET SET

Position your hands on your hips and position your nonsupported foot against the inside knee of your standing leg. You can practice the test for approximately one minute.

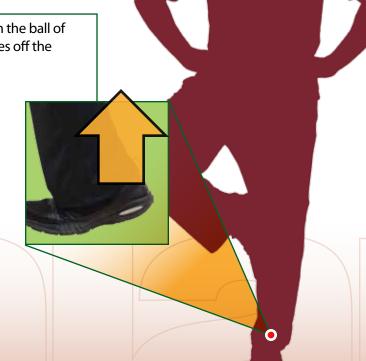
> GO

When you are ready, raise your heel to balance on the ball of your foot. Begin timing as soon as your heel comes off the ground.

➤ FINISH

Stop timing when:

- ✓ Hands come off the hips
- ✓ The non-supported foot loses contact with the knee
- ✓ The heel of the supported foot touches the floor
- ✓ The supporting foot swivels, moves or hops in any direction





It's time to test your...

Balance

Here's another simple test you can take to see how dynamically balanced you are...

Balance Test *2: Walking The Line Test

This test measures your ability to move and balance your body at the same time while stepping with one foot in front of the other (heel to toe) on an imaginary or real line.

➤ GET READY

You'll need a flat non-slip surface, preferably a line or masking tape to represent a straight line, a pencil or pen and this book to score your results. This test can be performed with or without shoes.



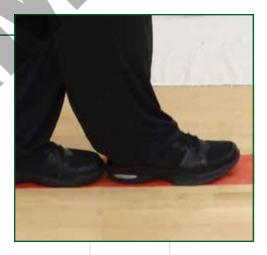
➤ GET SET

Stand with both feet together in front of the beginning of a straight line (or imaginary).

➤ GO

While keeping your hands by your sides at all times, place your left foot on the line and then your right foot in front of it, touching heel to toe. The heel of your right foot should be touching the toes of your left foot.

Continue to walk in this manner, watching your feet and counting how many total steps you can take. (If you are in a small area, count 10 total steps and turn around and walk back.)



➤ TERMINATE THE TEST IF...

- ✓ You cannot keep your balance on the line
- ✓ You have to stop walking to balance yourself
- ✓ You are not able to touch heel to toe
- ✓ You have to use your arms to balance yourself



Balance

Balance Programs, Tools And Personality Profile Recommendations

To improve your balance, you can perform simple movements such as those mentioned on pages 26–29. Or you can select from various recommended balance programs and tools that we recommend based upon your Fitness That Works Personality Profile.

The following chart is a list of recommended balance activities. (See specific recommendations for your Fitness Personality Profile checked in the right hand columns).

Fitness Personality Profile—My Personality Profile Is

➤ Check three that are the most appealing to you.

BA	LANCE ACTIVITIES/EXERCISES	PROFILE A	PROFILE B	PROFILE C	
	Simple Moves: One Leg Balance (See page 26–27)		1	✓	
	Simple Moves: Moving Balance (See page 28–29)	/	1	✓	
	Pilates		✓		
	Tai Chi		✓		
	Yoga/Dynamic Stretching Classes		✓		
	TRX Training	1	✓	land or	
	Boxing Classes		✓		
	Ballet		✓		
	Dance Classes (Ball Room, Zumba)		✓		
	Stability Ball Training	✓	✓	1	
	BOSU Training	✓			
	Air Disc Training	✓			
	Jumping rope	✓		1	
	Walking or running barefoot	✓		✓	
	Bowling			✓	
	Trampoline	✓		✓	
	Horse shoes			✓	
	Bocce Balls		✓	✓	
	Golf	✓	✓	✓	
	Surfing			✓	
	Skateboarding			✓	
	Softball/baseball		✓	✓	
	Racquet Sports (Tennis, Badminton, Racquetball)		1	✓	
	Fencing		/ /		
	Gymnastics	✓	✓		
	Martial Arts Training	1	1		
	4–3–2–1 Fitness Training (See page 148–149)	1	✓	✓	

