ACCESSING THE POWER OF THE GROUND

By Laura Servid, OTR/L ASTON Certified Aston-Satterning Practitioner PATTERNING®

here was a time wher it seemed that what was really needed in my socupational therapy world was a course in "sef-defense against gravity." Gravity kept clients from being able to rise easily from chairs. It made it so difficult to lift a weak-arm or leg. Forthose clients with low back sain, lifting objects against gravity was a challenge, at sest, if not out of the question. Just sitting up straight in a chair seemed to be hard work. And gravity pulls on the tissues and compresses the joints of the average-aging body, seemingly accelerating the aging process. If we could just find a way to overcome this sopressive force, all would be well.

When I mentioned the ises to Judith Aston back in 1989, her response took me completely by surprise. To speak of "self-as-ense against gravity," she said, sounded like gravity was the enemy. She had always considered travity a friend. My mind was boggled. This was a 180-degree turnabout from my thinking. How could this pervasive; compressive force be considered a friend?

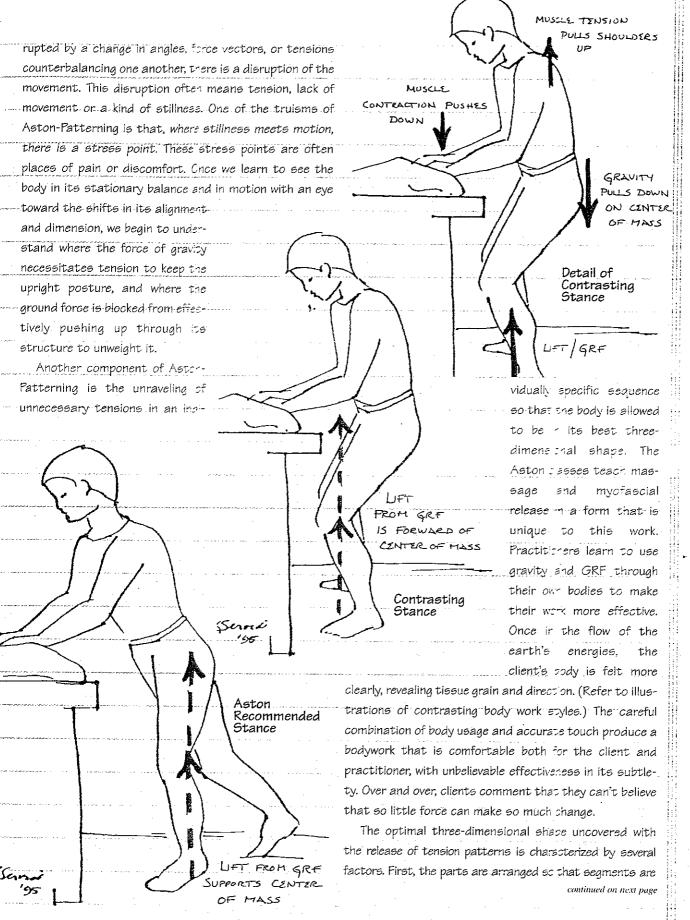
The extent to which gravit, can be a friend, and a very powerful one, is incredible. To attraction between two masses — our bodies and the ground — is the gravitational force with which we are most familian. The equal and opposite action, Newton's tried law, the "other side" of gravity, is ground reaction force (GRF). This force is less

familiar, yet just as significant. Together, these create a wave of energy that can enhance our movement on the earth, making any function simultaneously less difficult and gentler on our bodies. It is an amazing power. Aston-Patterning teaches us how to access this power and use it easily in our everyday function.

Aston-Pattering compines a imment and movement precisely and accurately, offering anybody greater ease of function. It begins with a systematic way to see the body and its segments in relation to each other and the

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ground. This pattern of vision releals the cause of many of the chronic asnes and pairs with which we are confronted as theracists. Acting as a conduit for the energies of gravity and GRF, the bos, requires a flow of movement through the segments, joints and tissues to sustain its dynamic state. In places where this flow is inter-



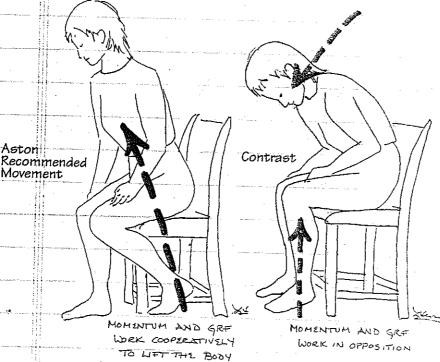
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aligned well. This means the joint surfaces contact each other, fully creating an open aperture for movement to occur

such off the ground. Because of gravity's equal and opposite reaction, pushing into the ground with accurate weight bearing through the joints produces an upward energy that lifts

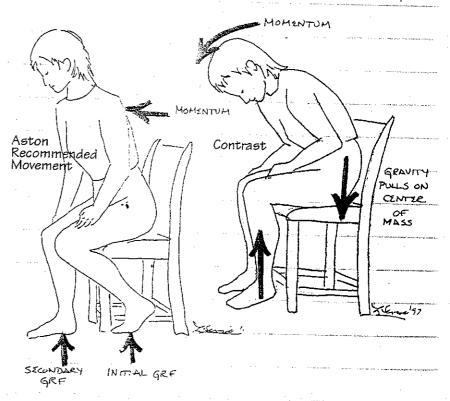
the body through space with minimal effort. (Refer to illustration of force direction.) It is as if we can rebound and bounce up. At the top of this "up," there is a moment of suspension, just a split second of unweight, which allows one to feel an instant of freedom and expansion prior to yielding to gravity and returning for the next push. This is the "hang time" we see in an athletic performance at the peak of a jump. This lift, this up, this energizing way of accessing ground force and experiencing the suspension, is one of the things that makes Aston-Patterning so unique and such a gift to share with clients.

The advantages of this type of movement are fairly extensive. From the muscle spindle to the Golgi tendon organs, proprioceptive input that monitors our movement is depen-

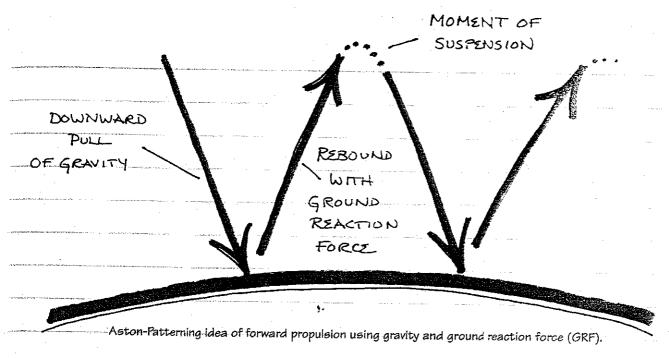


between segments. Second. the optimal shape creates a balanced expucture that requires less tension to sustain its position in space. And when the tension is relatively even throughout the body, the work can be distributed and all parts can move cooperatively. The balance of our elaborate structure in an upright position is truly a work of art, one in continual progress. We are constantly in motion, be it a breath, a heartbeat, a shift in position or a run. The well-aligned body, by virtue of its decreased tension, is poised for easy movement at any moment. It is through refining alignment, balancing tensions, and step-by-step movement education that the Aston work sets the stage for the body to take advantage of the flow of forces using gravity and GRF.

Allowing the balanced structure to settle into the ground with the assistance of gravity creates the opportunity to



dent on the degree of tension. Muscles and tendons that are neither shortened nor overstretched can operate with optiresilience. Joints that are accurately aligned prevent



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uneven wear and tear over their surfaces. The gravitational force can be used to set the boay in motion with minimal effort. GRF assists the push off and propulsion through space. In addition, that moment of suspension allows momentary expansion. These actions combine to set up a resilient pumping action through the tissues, which facilitates fluid exchange necessary to keep the whole system healthy. The bottom line function is enhanced and more efficient.

One of my clients has a congenital anomaly that left her without a hip socket on one side and a small hemipelvis. She had to have a chair with arms because otherwise she couldn't stand up. She had numerous surgeries, the latest of which was a total hip replacement. However, one leg remains shorter than the other. She has severe pain in her thoracic spine, and her job

requires sitting bent forward at a desk. A thin pad placed under the smaller hip allowed her to bear her weight more equally. She then learned to find a neutral sitting posture, pushing off the seat through both ischial tuberosities and supporting her spine in a more comfortable way of sitting. Using this new alignment and hinging from the hip joint rather than bending at the waist, she could get her center of gravity over her feet. She was then ready to switch from the "nose over toes" method of getting up to one in which gravity and GRF assisted her. Using her

stronger leg to push into the ground, she rose without using her hands at all, and with so little effort that she surprised herself. Not only that, she felt gradeful. A seemingly small change in movement made a large difference in function.

Another client with cortinuous basing an from a motor vehicle accident despite a year of therasy, also found Aston-Patterning extremely useful. Through seeing and palpation, it was clear that her spine resultension to compensate for the

obliquity of her seles, and that the position of the period was largely controlled by the tension of her right hip. These relationships matched the forces incurred in the accident, in which her right foot was on the brake when she was rear-ended and pushed into the car in front of her. This leg extended against the cedal, and the pelvis, secured by the seat belt during impact, created a

strong compression through the hip joint, which was held in the tissue. Restoring more balanced tension through the hips and legs allowed mobility of the spine and a release of stored tensions. Using the more accurate alignment with a push off the ground, she has regained a fluidity in her movement that is less painful and allows her to resume her artistic endeavors with an energy and enthusiasm previously diminished by pain.

Perhaps most exciting in my experience with this work is

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its connection with neurology. Years of renabilitation experience using traditional techniques offered fair success, limited by spasticity and abnormal movement patterns. From a neurological standpoint, our bodies seem to respond extremely well to the Aston work.

One example is a 33-year-old woman with spastic diplegia and degenerative ask disease in the lumbar spine, who walked short distances (about a block) with the assistance of two toftstrand crutches. She spent about one day a week in bed with pain so severe that it made weight bearing impossible. Her life was controlled by spasticity and pain. Working to Lawind her tension patterns slowly was very helpful, but her success came from learning to unweight her spine aca change the spasticity in her legs by... pushing off the ground with more accurate alignment. She first learned alignment in sitting, again pushing into the sest with the ischial tuberosities and into the floor with her feet to ease the compression in her low back. The lengther is through the spine using GRF offered great relief from back pain. She grasually came to have this ability in standing, first with more control on one leg, then the other, and then learning to briege between her alignment on her left and right sides. She transitioned through a series of orthotics that had to be changed as she changed, but were very heistul. She now uses just one crutch for balance, walking up to 10 city blocks without a problem. Her back pain is minimal.

ind perhaps more promising in terms of her long-term function is the improvement in her proprioceptive and kinesthetic senses, which resulted in more feeling and control of her legs than she has ever had in her life. Getting in touch with the ground has allowed both neurological and musculoskeletal gains, not only greatly increasing her function, but offering an unexpected hopefulness to her life.

Twenty-one years in the OT field has allowed me the opportunity to work with a wide range of clientele and problems. We are always working together to improve function and make their daily living experiences as accessible and fulfilling as possible. Without a doubt, Aston-Patterning has given me the best array of tools to help empower people in their dayto-day function, regardless of what it is they want to do. Its fundamental concepts allow an extraordinary scope of application to improve functional performance on all levels. In my experience, the training surpasses any other method in its comprehensive understanding of each person as a whole entity of body, mind and life expression. The bodywork and movement education combine to create the true gift, accessing the power of the ground that is there for all of us, all the

- Laura Servid, OTR/L, has worked as an occupational therapist in inpatient and outpatient hospital settings. She has extensive experience in stroke rehab and hand therapy. She developed a functional movement training program for back pain clients, and more recently is co-teaching a treatment program for repetitive strain injuries. She began taking classes in Aston-Patterning in 1989 and completed the certification program in January 1995. She has done consulting work in office ergonomics and in industry with product development. Currently, she has a private practice using the Aston work.

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Your Swing

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and NovaCare clinical operations director, who is responsible for bringing BACKtoGOLF to Columbus, Ohio. Dipman also organizes the certification and training sessions for therapists interested in being part of the BACKtoGOLF program.

Some of the highlights of the clinic include: a biomechanical golf evaluation; treatment, prevention and rehabilitation program management; golf-specific exercises; golf swing analysis; and golf swing enhancement with instruction and coaching.

BACKtoGOLF clinics use The CoachTM, a David Leadbetter product, to achieve a "stabilized spine golf swing." The Coach helps strengthen golf-specific muscles. "We can tell which tissues or muscles are restricting [clients] in their golf swing. or if they are actually doing something biomechanically wrong," Dipman said. "Golf can be pretty stressful to the back if you don't have the right type of swing."

Following one to two treatment sessions with a physical therapist and a PGA/LPGA professional, a golfer can anticipate a significant change, depending on his or her swing and the condition of the golfer.

The clinics are individualized. "It's a hands-on approach." Dipman said. "We don't just give [clients] exercises...to do at home or in a clinic. If we pick up that they have tightness or restriction, we do joint mobilization and soft tissue work to speed up getting flexibility, which gives them the ability to really turn and have more power."

There are 60 BACKtoGOLF clinics nationwide that treat 75 to 100 patients annually. "It's grown across the country," Dipman said.

— Physical therapists interested in certification and training sessions can call BACKtoGOLF toll free at 888-228-6453.

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