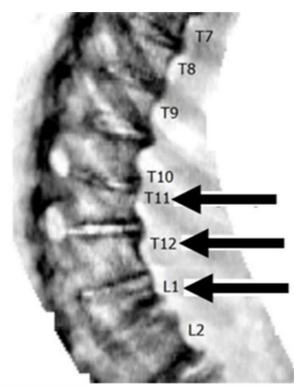


I'm not robot!





## Fitness

For cardiorespiratory fitness and muscle strength benefits, adults with SCI should engage in at least:

**20** minutes of moderate to vigorous intensity aerobic exercise **2** times a week

+

**3** sets of strength-training exercises for each major functioning muscle group, at a moderate to vigorous intensity

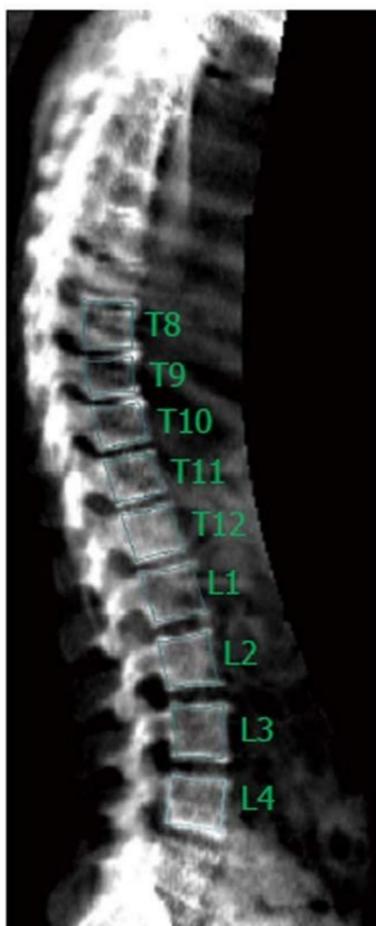
**2** times a week

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## Cardiometabolic health

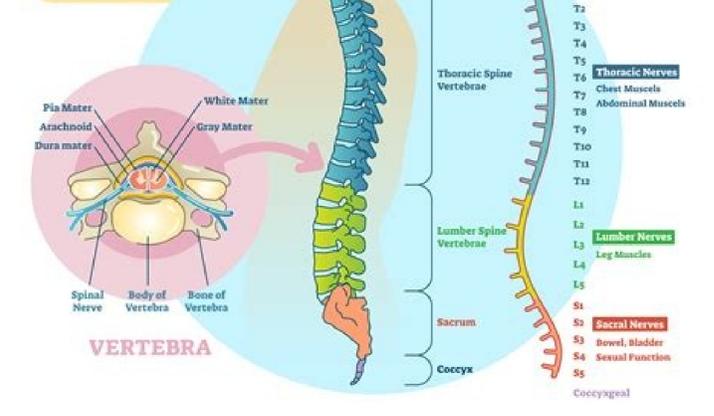
For cardiometabolic health benefits, adults with SCI are suggested to engage in at least:

**30** minutes of moderate to vigorous intensity aerobic exercise **3** times a week





# SPINAL CORD



- Cervical Spine Vertebrae**
  - C1 Head and neck
  - C2 Diaphragm
  - C3 Lungs, Stomach
  - C4 Neck Extensors
  - C5 Triceps
  - C6 Hand
- Thoracic Spine Vertebrae**
  - T1
  - T2
  - T3
  - T4
  - T5
  - T6 **Thoracic Nerves**
  - T7 Chest Muscles
  - T8 Abdominal Muscles
  - T9
  - T10
  - T11
  - T12
- Lumbar Spine Vertebrae**
  - L1
  - L2 **Lumbar Nerves**
  - L3 Leg Muscles
  - L4
  - L5
- Sacrum**
  - S1
  - S2 **Sacral Nerves**
  - S3 Bowel, Bladder
  - S4 Sexual Function
  - S5
- Coccyx**

Open fracture score. How to assess a fracture. What is a vertebral fracture assessment.

Journal of Manipulative & Physiological Therapeutics now recommends you submit all manuscripts electronically. Submit Manuscript You may also use this system to track your manuscript through the review process. Track Manuscript You may also view author guidelines or track your article, post acceptance, by visiting: Author Gateway Injury is published by Elsevier for the British Trauma Society (BTS), the Australasian Trauma Society (ATS), the Hellenic Association of Orthopaedic Surgery and Traumatology (HAOST), the Saudi Orthopaedic Association, the Italian Society of Orthopedics and Traumatology, the K ntischer Society, the Orthopaedic Surgery and Traumatology Spanish Society (SECOT), the Turkish Society of Orthopaedic Trauma's (TSOT), AOTrauma, GERTrauma, the Croatian Trauma Society (HTD), the Brazilian Association of Orthopedic Trauma, the Club Italiano dell'Osteointesi (CIO) and the European Society of Tissue Regeneration in Orthopaedics and Trauma (ESTROT). Skeletal disorder Not to be confused with Osteoporosis. Medical condition OsteoporosisElderly woman with osteoporosis, showing a curved back from compression fractures of her back bones. Pronunciation, /ˈɒstjəʊrɒsɪs/[1][2] Spelling, Rheumatology, Endocrinology, orthopedicsSymptomsIncreased risk of a broken bone[3]ComplicationsChronic pain[3]Usual onsetOlder age[3]Risk factorsAlcoholism, anorexia, European or Asian ethnicity, hyperthyroidism, gastrointestinal diseases, surgical removal of the ovaries, kidney disease, smoking, certain medications[3]Diagnostic methodBone density scan[4]TreatmentGood diet, exercise, fall prevention, stopping smoking[3]MedicationBisphosphonates[5][6]Frequency13% (50-year olds), 70% (over 80-year olds)[7] Osteoporosis is a systemic skeletal disorder characterized by low bone mass, micro-architectural deterioration of bone tissue leading to bone fragility, and consequent increase in fracture risk. It is the most common reason for a broken bone among the elderly.[3] Bones that commonly break include the vertebrae in the spine, the bones of the forearm, and the hip.[8] Until a broken bone occurs there are typically no symptoms. Bones may weaken to such a degree that a break may occur with minor stress or spontaneously. After the broken bone heals, the person may have chronic pain and a decreased ability to carry out normal activities.[3] Osteoporosis may be due to lower-than-normal maximum bone mass and greater-than-normal bone loss. Bone loss increases after the menopause due to lower levels of estrogen, and after Andropause due to lower levels of Testosterone.[9][10] Osteoporosis may also occur due to a number of diseases or treatments, including alcoholism, anorexia, hyperthyroidism, kidney disease, and surgical removal of the ovaries. Certain medications increase the rate of bone loss, including some antiseizure medications, chemotherapy, proton pump inhibitors, selective serotonin reuptake inhibitors, and glucocorticosteroids. Smoking, and too little exercise are also risk factors.[3] Osteoporosis is defined as a bone density of 2.5 standard deviations below that of a young adult. This is typically measured by dual-energy X-ray absorptiometry (DXA or DEXA).[4] Prevention of osteoporosis includes a proper diet during childhood and efforts to avoid medications that increase the rate of bone loss. Efforts to prevent broken bones in those with osteoporosis include a good diet, exercise, and fall prevention. Lifestyle changes such as stopping smoking and limiting alcohol may help. Bisphosphonate medications are useful to decrease future broken bones in those with previous broken bones due to osteoporosis. In those with osteoporosis but no previous broken bones, they are less effective.[5][6] (needs update)[11] They do not appear to affect the risk of death.[12] Osteoporosis becomes more common with age. About 5% of Caucasians in their 50s and 70% of those over 80 are affected.[7] It is more common in women than men.[3] In the developed world, depending on the method of diagnosis, 2% to 8% of males and 9% to 38% of females are affected.[13] Rates of disease in the developing world are unclear.[14] About 22 million women and 5.5 million men in the European Union had osteoporosis in 2010.[15] In the United States in 2010, about 8 million women and between 1 and 2 million men had osteoporosis.[13][16] White and Asian people are at greater risk.[3] The word "osteoporosis" is from the Greek terms for "porous bones".[17] Signs and symptoms Illustration depicting normal standing posture and osteoporosis Osteoporosis itself has no symptoms; its main consequence is the increased risk of bone fractures. Osteoporotic fractures occur in situations where healthy people would not normally break a bone; they are therefore regarded as fragility fractures. Typical fragility fractures occur in the vertebral column, rib, hip and wrist. Fractures Fractures are a common symptom of osteoporosis and can result in disability.[18] Acute and chronic pain in the elderly is often attributed to fractures from osteoporosis and can lead to further disability and early mortality.[19] These fractures may also be asymptomatic. The most common osteoporotic fractures are of the wrist, spine, shoulder and hip. The symptoms of a vertebral collapse ("compression fracture") are sudden back pain, often with radicular pain (shooting pain due to nerve root compression) and rarely with spinal cord compression or cauda equina syndrome. Multiple vertebral fractures lead to a stooped posture, loss of height, and chronic pain with resultant reduction in mobility.[20] Fractures of the long bones acutely impair mobility and may require surgery. Hip fracture, in particular, usually requires prompt surgery, as serious risks are associated with it, such as deep vein thrombosis and pulmonary embolism, and increased mortality. Fracture risk calculators assess the risk of fracture based upon several criteria, including bone mineral density, age, smoking, alcohol usage, weight, and gender. Recognized calculators include FRAX,[21] the Garvin FRC calculator and OFractor as well as the open access FReM tool.[22] The FRAX tool can also be applied in a modification adapted to routinely collected health data.[23] The term "established osteoporosis" is used when a broken bone due to osteoporosis has occurred.[24] Osteoporosis is a part of frailty syndrome. Risk of falls Progression of the shape of vertebral column with age in osteoporosis There is an increased risk of falls associated with aging. These falls can lead to skeletal damage at the wrist, spine, hip, knee, foot, and ankle. Part of the fall risk is because of impaired eyesight due to many causes, (e.g. glaucoma, macular degeneration), balance disorder, movement disorders (e.g. Parkinson's disease), dementia, and sarcopenia (age-related loss of skeletal muscle). Collapse (transient loss of postural tone with or without loss of consciousness). Causes of syncope are manifold, but may include cardiac arrhythmias (irregular heart beat), vasovagal syncope, orthostatic hypotension (abnormal drop in blood pressure on standing up), and seizures. Removal of obstacles and loose carpets in the living environment may substantially reduce falls. Those with previous falls, as well as those with gait or balance disorders, are most at risk.[25] Complication In addition to making you more susceptible to breaks and fractures, osteoporosis can lead to other complications. Bone fractures which are results from osteoporosis can lead to disability and even an increased chance of death after the injury.[26] Depression is considered to a complication of osteoporosis.[27] People with osteoporosis lose independence and risk being isolated due to less physical activity. This will further hinder the ability to manage health issues.[27] Osteoporosis is also linked to respiratory and cardiovascular health issues, such as loss of lung capacity. Multiple fractures lead to a collapsed thoracic spine, which makes less air being able to move into the lungs. Every thoracic vertebral body collapsed results in the loss of nearly 10% of lung volume.[28] Risk factors Risk factors for osteoporotic fracture can be split between nonmodifiable and (potentially) modifiable. In addition, osteoporosis is a recognized complication of specific endocrine disorders. Menopausal osteoporosis is also modifiable, although in many cases the usual treatments are not available. Caffeine consumption is a risk factor for osteoporosis.[29] Nonmodifiable Bone density peaks at about 30 years of age. Women lose bone mass more rapidly than men.[30] The most important risk factors for osteoporosis are advanced age (in both men and women) and female sex; estrogen deficiency following menopause or surgical removal of the ovaries is correlated with a rapid reduction in bone mineral density, while in men, a decrease in testosterone levels has a comparable (but less pronounced) effect.[31][32] Ethnicity: While osteoporosis occurs in people from all ethnic groups, European or Asian ancestry predisposes for osteoporosis.[33] Heredity: Those with a family history of fracture or osteoporosis are at an increased risk; the heritability of the fracture, as well as low bone mineral density, is relatively high, ranging from 25 to 80%. At least 30 genes are associated with the development of osteoporosis.[34] Those who have already had a fracture are at least twice as likely to have another fracture compared to someone of the same age and sex.[35] Build: A small stature is also a nonmodifiable risk factor associated with the development of osteoporosis.[36] Potentially modifiable Excessive alcohol: Although small amounts of alcohol might be beneficial (bone density increases with increasing alcohol intake, although the link has not been conclusively shown as causal), chronic heavy drinking (alcohol intake greater than three units/day) probably increases fracture risk despite any beneficial effects on bone density.[37][38] Vitamin D deficiency:[39][40] Low circulating Vitamin D is common among the elderly worldwide.[4] Mild vitamin D insufficiency is associated with increased parathyroid hormone (PTH) production.[4] PTH increases bone resorption, leading to bone loss. A positive association exists between serum 1,25-dihydroxycholecalciferol levels and bone mineral density, while PTH is negatively associated with bone mineral density.[4] Tobacco smoking: Many studies have associated smoking with decreased bone health, but the mechanisms are unclear. Tobacco smoking has been proposed to inhibit the activity of osteoblasts, and is an independent risk factor for osteoporosis.[37][41] Smoking also results in increased breakdown of bone matrix, lower body weight, and malabsorption can lead to osteoporosis. Nutritional and gastrointestinal disorders that can predispose to osteoporosis include undiagnosed and untreated coeliac disease (both symptomatic and asymptomatic).[4][62] Crohn's disease,[63] ulcerative colitis,[63] cystic fibrosis,[63] surgery[60] (after gastrectomy, intestinal bypass surgery or bowel resection) and severe liver disease (especially primary biliary cirrhosis).[60] People with lactose intolerance or milk allergy may develop osteoporosis due to restrictions of calcium-containing foods.[64] Individuals with bulimia can also develop osteoporosis. Those with an otherwise adequate calcium intake can develop osteoporosis due to the inability to absorb calcium and/or vitamin D. Other micronutrients such as vitamin K or vitamin B12 deficiency may also contribute. People with rheumatologic disorders such as rheumatoid arthritis,[60] ankylosing spondylitis,[60] systemic lupus erythematosus and polyarticular juvenile idiopathic arthritis are at increased risk of osteoporosis, either as part of their disease or because of other risk factors (notably corticosteroid therapy). Systemic diseases such as amyloidosis and sarcoidosis can also lead to osteoporosis. Chronic kidney disease can lead to renal osteodystrophy.[65] Hematologic disorders linked to osteoporosis are multiple myeloma[60] and other monoclonal gammopathies.[61] lymphoma, leukemia, mastocytosis,[60] hemiphilia, sickle-cell disease, and thalassemia. Several inherited or genetic disorders have been linked to osteoporosis. These include osteogenesis imperfecta,[60] Multicentric carpaloscapular osteolysis syndrome,[66] Multicentric Osteolysis, Klinefelter syndrome, Kallmann syndrome, anorexia nervosa, andropause,[60] hypohalamic amenorrhea or hyperprolactinemia.[60] In females, the effect of hypogonadism is mediated by estrogen deficiency. It can appear as early menopause (1 year). Bilateral oophorectomy (surgical removal of the ovaries) and premature ovarian failure cause deficient estrogen production. In males, testosterone deficiency is the cause (for example, andropause or after surgical removal of the testes). Endocrine disorders that can induce bone loss include Cushing's syndrome,[4] hyperparathyroidism,[4] hyperthyroidism,[4] hypothyroidism,[4] hypophyroidism, diabetes mellitus type 1 and 2,[61] acromegaly, and adrenal insufficiency.[59] Malnutrition, parental nutrition[4] and malabsorption can lead to osteoporosis. In addition, osteoporosis is associated with an increased loss of dopaminergic neurons and altered calcium metabolism[71] and iron metabolism). Medication Certain medications have been associated with an increase in osteoporosis risk; only glucocorticosteroids and anticonvulsants are classically associated, but evidence is emerging with regard to other drugs. Steroid-induced osteoporosis (SIOP) arises due to use of glucocorticoids – analogous to Cushing's syndrome and involving mainly the axial skeleton. The synthetic glucocorticoid prescription drug prednisone is a main candidate after prolonged intake. Some professional guidelines recommend prophylaxis in patients who take the equivalent of more than 30 mg hydrocortisone (7.5 mg of prednisolone), especially when this is in excess of three months.[72] It is recommended to use calcium or Vitamin D as prevention.[73] Alternate day use may not prevent this complication.[74] Barbiturates, phenytoin and some other enzyme-inducing antiepileptics – these probably accelerate the metabolism of vitamin D.[75] L-Thyroxine over-replacement may contribute to osteoporosis, in a similar fashion as thyrotoxicosis does.[59] This can be relevant in subclinical hypothyroidism. Several drugs induce hypogonadism, for example aromatase inhibitors used in breast cancer, methotrexate and other antimetabolite drugs, depot progesterone and gonadotropin-releasing hormone agonists. Anticoagulants – long-term use of heparin is associated with a decrease in bone density.[76] and warfarin (and related coumarins) have been linked with an increased risk in osteoporotic fracture in long-term use.[77] Proton pump inhibitors – these drugs inhibit the production of stomach acid; this is thought to interfere with calcium absorption.[78] Chronic phosphate binding may also occur with aluminum-containing antacids.[59] Thiazolidinediones (used for diabetes) – rosiglitazone and possibly pioglitazone, inhibitors of PPARγ, have been linked with an increased risk of osteoporosis and fracture.[79] Chronic lithium therapy has been associated with osteoporosis.[59] Evolutionary Bone loss is common among humans due to exhibiting less dense bones than other primate species.[80] Because of the more porous bones of humans, frequency of severe osteoporosis and osteoporosis related fractures is higher.[81] The human vulnerability to osteoporosis is an obvious cost but it can be justified by the advantage of bipedalism inferring that this vulnerability is the byproduct of such.[81] It has been suggested that porous bones help to absorb the increase stress that we have on two surfaces compared to our primate counterparts who have four surfaces to disperse the force.[80] In addition, the porosity allows for more flexibility and a lighter skeleton that is easier to support.[81] One other consideration may be that diets today have much lower amounts of calcium than the diets of other primates or the tetrapedal ancestors to humans which may lead to higher likelihood to show signs of osteoporosis.[82] Fracture risk assessment In the absence of risk factors other than sex and age a BMD measurement using dual-energy X-ray absorptiometry (DXA) is recommended for women at age 65. For women with risk factors a clinical FRAX is advised at age 50. Pathogenesis Osteoporosis locations The underlying mechanism in all cases of osteoporosis is an imbalance between bone resorption and bone formation.[83][84] In normal bone, matrix remodeling of bone is constant; up to 10% of all bone mass may be undergoing remodeling at any point in time. The process takes place in bone multicellular units (BMUs) as first described by Frost & Thomas in 1963.[85] Osteoclasts are assisted by transcription factor PU.1 to degrade the bone matrix, while osteoblasts rebuild the bone matrix. Low bone mass density can then occur when osteoclasts are degrading the bone matrix faster than the osteoblasts are rebuilding the bone.[83][86] The three main mechanisms by which osteoporosis develops are an inadequate peak bone mass (the skeleton develops insufficient mass and strength during growth), excessive bone resorption, and inadequate formation of new bone during remodeling, likely due to mesenchymal stem cells biasing away from the osteoblast and toward the marrow adipocyte lineage.[87] An interplay of these three mechanisms underlies the development of fragile bone tissue.[34] Hormonal factors strongly determine the rate of bone turnover. The rate of bone turnover is highest in the hand and wrist, and lowest in the hip and spine. The rate of bone turnover is also affected by the rate of bone remodeling. The rate of bone remodeling is highest in the hand and wrist, and lowest in the hip and spine. The rate of bone remodeling is also affected by the rate of bone turnover. 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