

First Author	Publication Year	Journal	Impact Factor	Inclusion	Exclusion	Country of Performance	Financial Conflict
Tetsuya Abe	2018	Archives of Osteoporosis	2.6	Age ≥60 years Acute onset back and/or low back pain due to single-level OVF fracture caused by minor or nontraumatic events Agreement for admission to treat back pain.	Pathological fracture due to malignancy Non-ambulatory before the onset of the fracture Severe dementing disorder to impede bed rest Refusal of admission to treat back pain.	Japan	-
Yannis Dionysiots	2015	Prosthetics and Orthotics International	1.9	Spinal Osteoporosis (≥1 OVF) thoracic/lumbar spine caused by a non-serious injury or accident OVF with radiographic reduction of ≥20% VH Women with a kyphosis angle >55° in lateral spine views	Bone metabolic disorders Serious degenerative diseases (e.g. severe osteoarthritis, scoliosis, and tumors)	Greece	-
Masatoshi Hoshino	2013	SPINE	3.5	Acute back pain Deformed VB on radiograms Abnormal intensity within the VB on MRI Low energy injury mechanism	Pathological fractures	Japan	-
Eva Jacobs	2019	Clinical Interventions in Aging	4.5	Female sex Age ≥55 years Symptomatic OVF (3 weeks old, visible on thoracolumbar radiography) Ambulatory	Unstable fractures Previous OVFs Not fully ambulatory Need for walking aids Active cancer Body weight >135kg >2 OVF from T10 to L2	Netherlands	-
Tsuyoshi Kato	2019	Journal of Clinical Medicine	4.2	Age 65-85 years fresh OVF between T10 and L2 within four weeks of injury	Previous spinal surgery Neurological deficits Inability to complete questionnaires Serious comorbid conditions (e.g. cancer, infection)	Japan	-
Ho-Joong Kim	2014	The Journal of Bone and Joint Surgery	5.3	Age ≥ 50 years Presence of acute back pain caused by a single-level OVF within three days of minor trauma	>2 OVF Pathological fracture Neurologic deficit Not walking before fracture History of previous injury or surgery at the fractured level Inability to complete the questionnaires	South Korea	Hanlim Pharm
Meng Li	2015	Prosthetics and Orthotics International	1.9	Age ≥55 years Female Clinical diagnosis of OVF with radiographs. Back pain secondary to OVF Affected vertebrae between T1-L5	Premorbid (bed-bound, previous spine surgery, pathological fracture) Dementia/cognitive impairment Patients with neurological deficits Secondary to osteoporotic fracture Severe spinal degenerative changes	China	-
Mei-Yun Liaw	2009	Journal of Back and Musculoskeletal Rehabilitation	1.4	Age 60-85 year OVF Visiting an osteoporotic outpatient clinic of the rehabilitation department of our hospital	Cognitive impairment Neuromuscular disease Uncorrectable visual deficits Vertigo Altered sensation Decreased muscle power Joint contracture Leg discrepancy or deformity Joint replacement in the lower extremities Severe fixed kyphosis Peripheral neuropathy Previous stroke Parkinson's disease Receiving sedative agents	Taiwan	-
Luigi Meccariello	2017	Aging Clinical and Experimental Research	3.6	Age ≥60 years or older Acute back pain caused by single level OVF OVF between T6 to L3 due to minor trauma or strain No neurological symptoms	>1 or previous OVF Bone metabolic disorders Pathological fracture, Neurological deficits Inability to walk Inability to complete questionnaires Severe lung diseases Smoking >10 cigarettes/day	Italy	-
Kenji Murata	2012	Journal of Neurosurgery-Spine	3.6	Acute back pain (≥1 week after onset) Thoracolumbar OVF Verified by MRI	Refusal of treatment/rigid external support Neurological deficits	Japan	-
Michael Pfeifer	2004	American Journal of Physical Medicine and Rehabilitation	2.2	Age ≥60 years ≥1 clinical OVF caused by osteoporosis KA of 60° measured by stereophotomorphometry	Bone metabolic disorders Severe degenerative diseases of the spine (e.g. osteoarthritis, scoliosis, and malignancies)	Germany	Medi-Bayreuth
Michael Pfeifer	2011	American Journal of Physical Medicine and Rehabilitation	2.2	Age ≥60 years ≥1 OVF caused by osteoporosis within the last 6 months KA >60° as measured by stereophotomorphometry	Bone metabolic disorders Severe degenerative diseases of the spine (e.g. osteoarthritis, scoliosis, and malignancies)	Germany	Medi-Bayreuth
Gitte Hoff Valentin	2014	Prosthetics and Orthotics International	1.9	women aged ≥50 years ≥ 1 thoracic/lumbar OVF verified by X-ray OVF with radiographic reduction of ≥20% VH Persistent back pain lasting ≥3 months prior to baseline	Severe exacerbation of back pain within 6 weeks prior to baseline New onset of X-ray verified OVF Hyperparathyroidism Hyperthyroidism Major comorbidities (e.g. malignancies of the spine, neurological diseases, severe congenital scoliosis) Inability to put on Spinomed III	Denmark	-