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In this issue

Research Article

Open Access Research Article PTZAID:IJSR-2-115

Surgical Management of Multiple Myeloma and Plasmocytoma of the Spine

Published On: September 10, 2020 | Pages: 054 - 059

Author(s): G Evangelisti*, E Pesce, R Gala, S Bandiera, G Tedesco, G Barbanti Brodano, S Terzi, R Ghermandi, M Girolami, V Pipola and A Gasbarrini

Multiple Myeloma (MM) is caused by the neoplastic proliferation of plasma cells that produce monoclonal immunoglobulins in the bone marrow thereby causing skeletal damage. Other MM-related complications include hypercalcemia, renal insufficiency, anaemia, and infections [1]. ...

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Criteria for radiological evaluation of incorporation of stand-alone expandable cervical vertebral body replacement devices

Published On: July 06, 2020 | Pages: 046 - 050

Author(s): Hassan Allouch*, Sándor Kónya, Mootaz Shousha and Heinrich Boehm

Introduction: Corpectomy is an important treatment option for various cervical pathologies and evaluation of treatment success on imaging can be even more difficult than for interbody fusion. Since for routine postoperative courses CT scanning seems not justified for evaluation of the fusion status this paper proposes markers for detailed evaluation of new on plain ra ...

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Aqueous extract from Opuntia megapotamica fruit pulp promotes osteoblast activity

Published On: May 20, 2020 | Pages: 037 - 045

Author(s): Valeria Gili, Juan A Laiuppa and Graciela E Santillán*

Objetive: Osteoporosis and osteopenia are age-related chronic diseases with increased morbidity rates among postmenopausal women. Natural products investigation for prevention and treatment of these conditions is growing, due, in part, to the fact that they allow longer exposure times and minor secondary complications than synthetic drugs. Opuntia plants (Cactaceae) h ...

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Comparative study of the bone graft area and fusion rate in unilateral transforaminal lumbar interbody fusion between Endoscopic and Miniopen procedures. A technical note and preliminary report

Published On: May 04, 2020 | Pages: 029 - 036

Author(s): Kang Taek Lim*, Hyung-Suk Kim, Elmer Jose Arevalo Meceda, Han Gawi Nam and Chun-Kun Park

Spinal fusion surgery can now be performed through the endoscopic approach. Adequate endplate preparation and sufficient contact between bone graft or bone graft substitutes with the surfaces of the vertebral endplates are main factors to achieve successful arthrodesis. The purpose of this study are to compare the bone graft area, ratio of allograft-bonegraft (allo-bo ...

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Open Access Research Article PTZAID:IJSR-2-110

Comparison of low back mobility and stability exercises from Pilates in non-specific low back pain: A randomized controlled trial

Published On: April 18, 2020 | Pages: 023 - 028

Author(s): Iã Ferreira Miranda, Catiane Souza, Alexandre Tavares Schneider, Leandro Campos Chagas, Jefferson Fagundes Loss*

Objectives: Compare the effects of the low back mobility and stability exercises from Pilates Method on low back pain, disability and movement functionality in individuals with non-specific chronic low back pain. Methods: 28 participants were randomized into two exercise protocol from Pilates methods, one focusing on low back stability and other on low back mobility. ...

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Open Access Research Article PTZAID:IJSR-2-109

Effects of pilates method on the posture, postural habits, and neck and back pain of women with temporomandibular dysfunction: A randomized clinical trial

Published On: April 11, 2020 | Pages: 014 - 022

Author(s): Luiza Rampi Pivotto, Cláudia Tarragô Candotti*, Juliana Adami Sedrez, Emanuelle Francine Detogni Schmit, Letícia Miranda Resende Da Costa and Jefferson Fagundes Loss

Background: Associations between changes in body posture for people with Temporomandibular Dysfunction (TMD) have been discussed in the literature. Although the Pilates method is an alternative for treating postural changes, there is a lack of studies evaluating its effects on individuals with TMD. The purpose of the study is to investigate the effects of an exercise ...

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Open Access Research Article PTZAID:IJSR-2-108

Prospective evaluation of relationship between MRI findings and ASIA score to predict neurological recovery in acute traumatic spinal cord injury

Published On: April 06, 2020 | Pages: 008 - 013

Author(s): Roop Singh*, Vijay Singh Meena, Pankaj Sharma, Kiranpreet Kaur and Svareen

Introduction: The role of MRI in evaluating the acutely injured spine is well established and contributes to assessment of

ligamentous disruption, associated disc protrusions as well as exact site of maximal canal stenosis and nature of cord injury; and neurological assessment as per ASIA score is an internationally accepted method. It is not well established the MRI ...

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Open Access Research Article PTZAID:IJSR-2-107

Treatment of lumbar spinal stenosis with the HQ (Hernández and Quintana) interbody screw, with minimally invasive technique

Published On: January 29, 2020 | Pages: 004 - 007

Author(s): Braulio Hernandez*, Raymundo Quintana, Carlos Montes, Roberto Cantú and Eduardo Modiano

Lumbar spinal stenosis is a frequent ailment that affects people over 50years. With previous studies by J. Zucherman, and the cadaveric investigations with maximum flexion and extension by W. Rauschning, it was demonstrated that the bulging of the posterior longitudinal ligament and the ligamentum flavum were the main causes of radicular compression; but, the key aspe ...

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Case Report

Open Access Case Report PTZAID:IJSR-2-114

Atypical presentation of clay shoveler's fracture: A case report and literature review

Published On: August 08, 2020 | Pages: 051 - 053

Author(s): Owolabi IJ*, Onuoha KM, Alade OA and Shobode MA

Clay shoveler's fracture causes disruption of the spinous processes at C6 to T3 spinal vertebrae. This is a case report of an atypical clay shoveler's fracture from Babcock university teaching Hospital ,Ogun-state, Nigeria. It involved a 62-year-old male travelling in the south-western region of Nigeria who was invloved in a Road traffic accident and presented with p ...

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Open Access Case Report PTZAID:IJSR-2-106

Multi-Level forestier syndrome in the cervical vertebra with an unusual radiographic appearance: Case report

Published On: January 10, 2020 | Pages: 001 - 003

Author(s): Deniz Sirinoglu, Mehmet Volkan Aydin*, Idris Avci, Gizem Meral Ati, Buse Sargül and Mehmet Volkan Aydn

We present a rare case of Forestier disease with multi-level vertebra involvement from the upper cervical to the thoracic area which has not been reported in the literature before. A 65- year old male patient was admitted to our outpatient clinic with neck pain, dysphagia and sleep apnea for over 5 months. On his cervical CT scan revealed broad ossification of the an ...

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Mini Review

Open Access Mini Review PTZAID:IJSR-2-116

Technological methods used in evaluating the balance

Published On: September 29, 2020 | Pages: 060 - 063

Author(s): Ferhan Soyuer*

Balance is evaluated within the concept of coordination and is defined as the ability to maintain the body’s center of gravity on the support surface. Technological methods used in the assessment of balance are robotic systems, virtual reality applications, tele-rehabilitation, web-based applications and sensor applications. In this review, we aimed to explain today’s ...

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Retrospective Study

Open Access Retrospective Study PTZAID:IJSR-2-117

Microendoscopy-assisted extraforaminal lumbar interbody fusion for treating single-level spondylodesis

Published On: October 27, 2020 | Pages: 064 - 069

Author(s): Motohide Shibayama, GuangHua Li*, LiGuo Zhu, Zenya Ito and Fujio Ito

Study design: technical note, retrospective case series. Objectives: Lumbar interbody fusion is a standard technique for treating degenerative lumbar disorders involving instability. Due to its invasiveness, a minimally invasive technique, Extraforaminal Lumbar Interbody Fusion (ELIF), was introduced. On surgically approaching posterolaterally, the posterior muscles ...

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