

Sacral Insufficiency Fracture associated with Osteoporotic Spinal Compression Fracture - Analysis and Incidence and Related Factors -



Ye-Soo Park¹, Wan-Sik Seo¹, Dong-Ryeol Heo¹, Ye-Yeon Won², Byung-Moon Kang³

¹Department of Orthopaedic Surgery, Guri Hospital, Hanyang University College of Medicine ²Department of Orthopaedic Surgery, Ajou University Hospital College of Medicine ³Department of Obstetrics and Gynecology, Asan Medical Center, Ulsan University College of Medicine

INTRODUCTION

Sacral insufficiency fracture is known as a common cause of back pain developed without evident trauma in patients with osteoporotic spinal compression fracture(OSCF). The purpose of present study was to investigate the incidence and predisposing factors of sacral insufficiency fractures(SIF) accompanied by osteoporotic spinal compression fracture.

MATERIALS AND METHODS

≻Jan. 2008 ~ Dec. 2012

≻949 patients with osteoporosis

• Spinal compression fracture in MRI

• Exclusion

- trauma, infection, cancer, pathologic fracture

➢ 80 male, 869 female

➤ Mean age: 65.8 yrs (39~98)

Bone Mineral Densitometry

≻T-score

- Lumbar spine(except fractured vertebrae)
- Both hip

Diagnosis of Sacral insufficiency fracture

- ➤MRI sagittal image
 - Marrow edema
 - STIR (Short Tau Inversion Recovery)
- ➤Whole body bone scan
 - 'H' shape (Honda sign)

Predisoposing factors

Sex, Age

► Body Mass Index (BMI)

➢Underlying disease

≻HTN, DM, RA, thyroid disease

>Number of osteoporotic spinal

compression fracture

>Presence of Osteoporosis

KE20LI2





Conflict of Interest : None