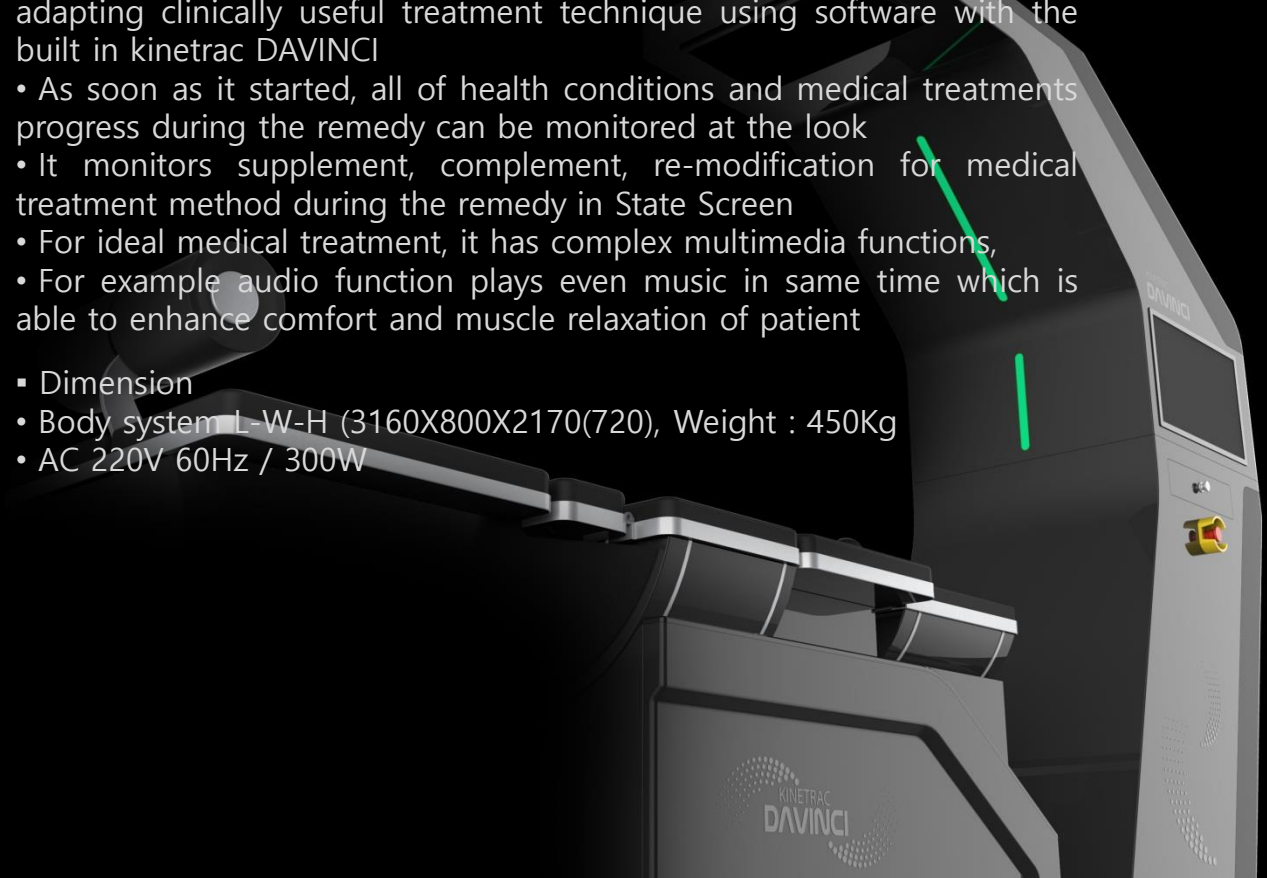
Specification

▪ **kinetrac DAVINCI** is not only more multiplied but also more convenient. And it is the most advanced therapy machine that controls all operations. It has Built in computer Programs that controls easily every functions.

▪ **Main Body : 1 EA**
• Traction power 0 ~ 60kg
• Traction With Target Lordosis L/H 0 ~ 30mm ±3
• Traction With Twist directly focused on the Axis of Spine 0° ~ 20°±1
• Traction With Flexion and Extension of Hip joint 10° ~ -20° ±2

▪ **Fully computerized control 1 EA : Computer & Control Table**
• kinetrac DAVINCI can monitor the condition and change of the patients' health through the data management about their disease and it's progress
• Setting-up program depending on disease, symptom, treatment phase, treatment progress, etc. easily adapts optimum programs to patients
• Setting-up for treatment and Progress are complicated, but it always embodies the most advanced program operation system based on adapting clinically useful treatment technique using software with the built in kinetrac DAVINCI
• As soon as it started, all of health conditions and medical treatments progress during the remedy can be monitored at the look
• It monitors supplement, complement, re-modification for medical treatment method during the remedy in State Screen
• For ideal medical treatment, it has complex multimedia functions,
• For example audio function plays even music in same time which is able to enhance comfort and muscle relaxation of patient

▪ Dimension
• Body system L-W-H (3160X800X2170(720), Weight : 450Kg
• AC 220V 60Hz / 300W



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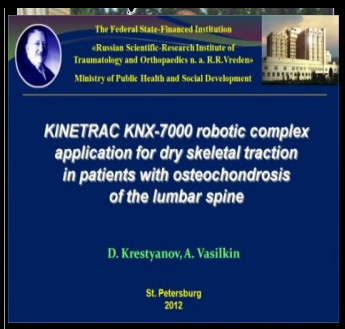

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Spine Therapeutic Innovation based NET
Decompression System

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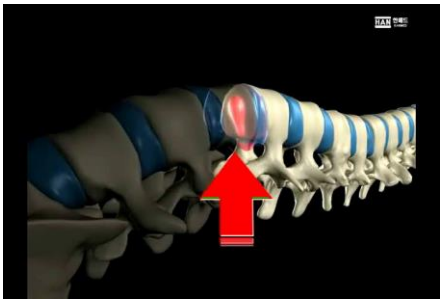
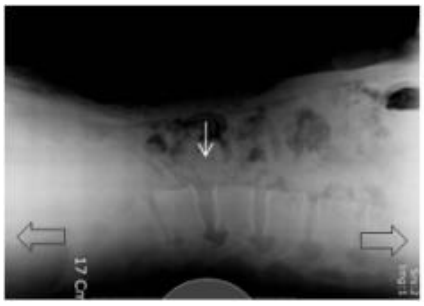
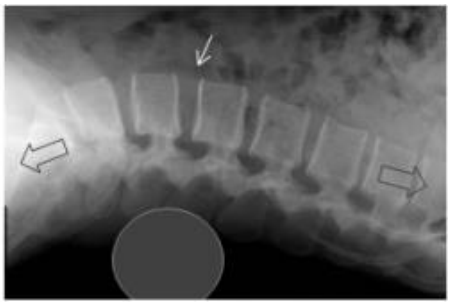






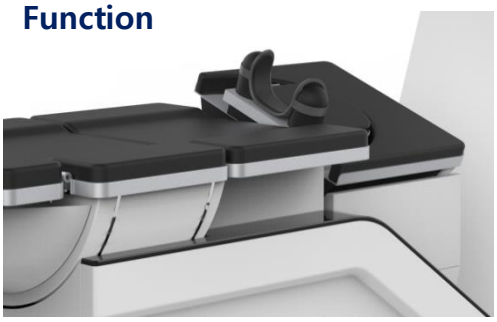
- Traction With Target Lordosis Decompression System

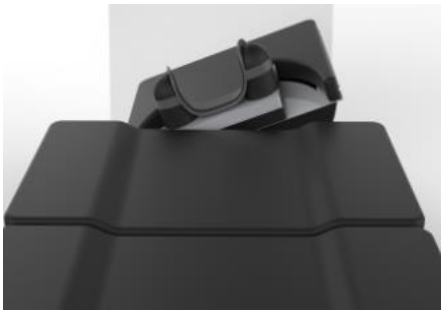
Considering the Lodorsis of human spine, the kinetrac DAVINCI system implaments the Decompression traction.

인류 척추의 형상을 고려하여 인간형 만곡견인 감압이론을 구현한 Decompression System Kinetrac DAVINCI

Spine Therapeutic Innovation !

C-Spine Function

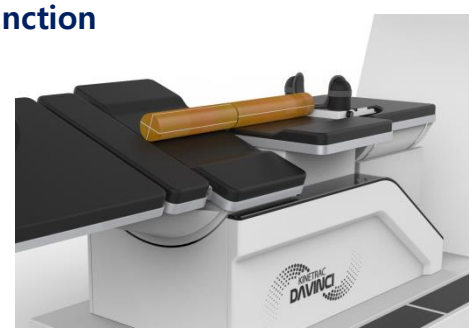




- Traction With Twist directly focused on the Axis of Cervical Spine 0º ~ 20º ±1º

- Traction With Flexion/Extension of Cervical Spine 10º ~ -20º ±1º

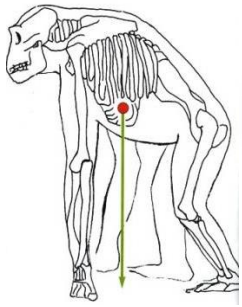
L-Spine Function



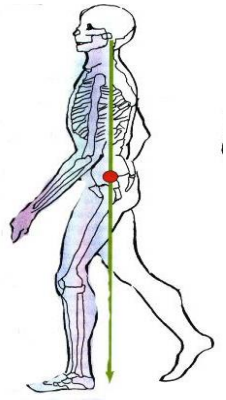
- Traction With Twist directly focused on the Axis of Spine 0º ~ 20º ±1º

- Traction With Flexion / Extension of Spine 10º ~ -20º ±1º

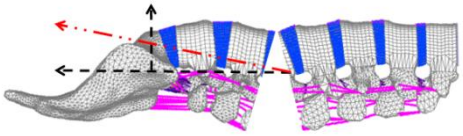
So far Decompression Therapeutics Appropriate to Animals than Human.



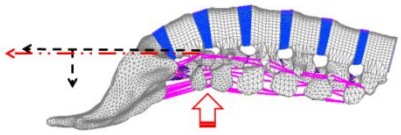

▪ The animal Spine




▪ The human Spine

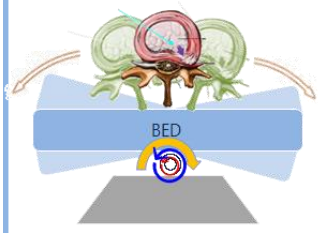


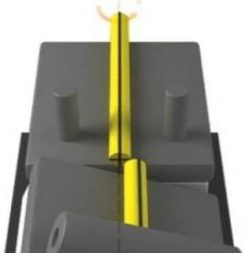
▪ Other Company Traction Method



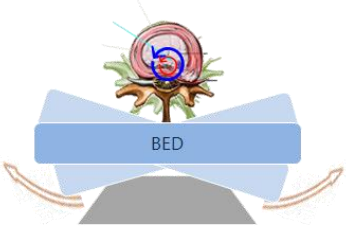
▪ Kinetrac TWTL Traction Method

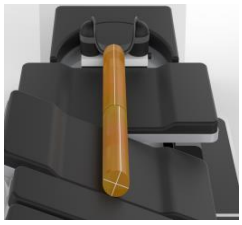
- Would you Therapy Human and Animals Spine in The Same Way?





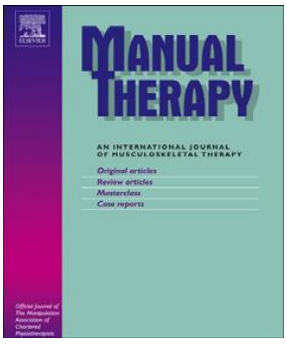
▪ Other Company normal TWIST method





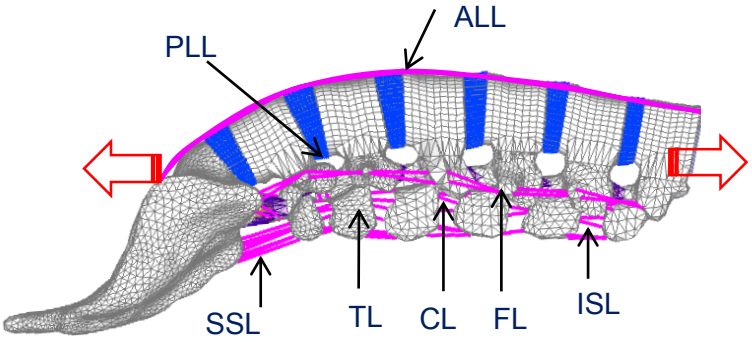
▪ Kinetrac DAVINCI TWIST method

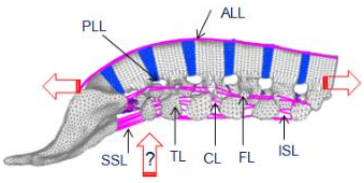
- The Axis of Rotation of Bed Move on The Spine Must be Twist Technology

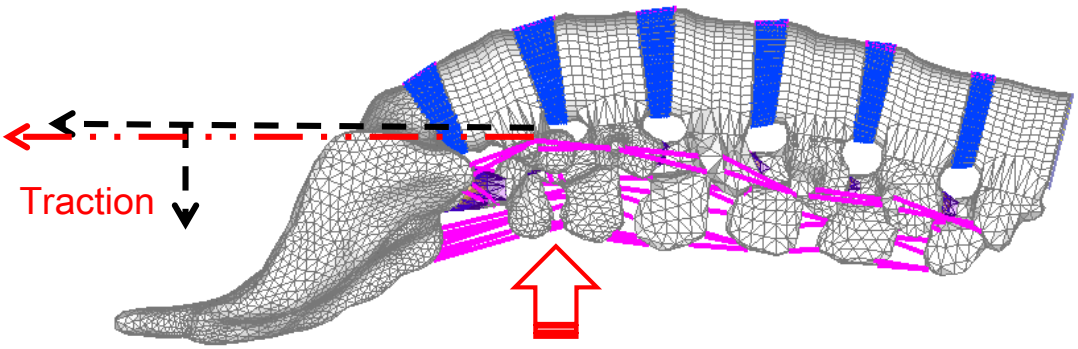


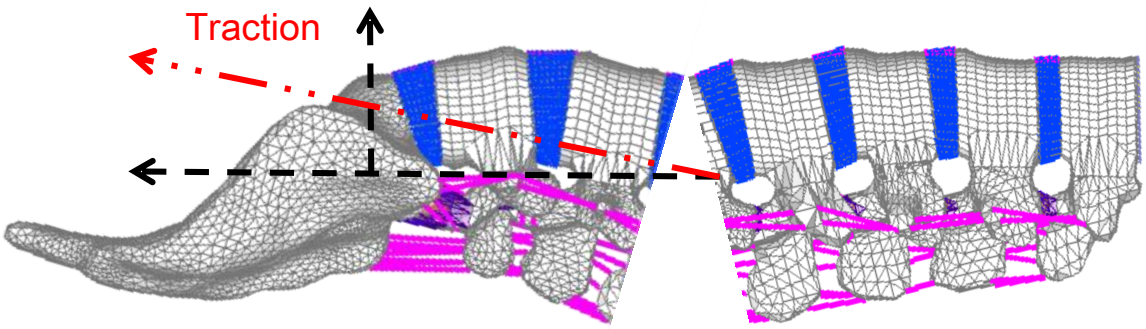

Biomechanical analysis of two step traction therapy in the lumbar spine(ELSEVIER- Manual Therapy.2014) - Decompression of KINETRAC

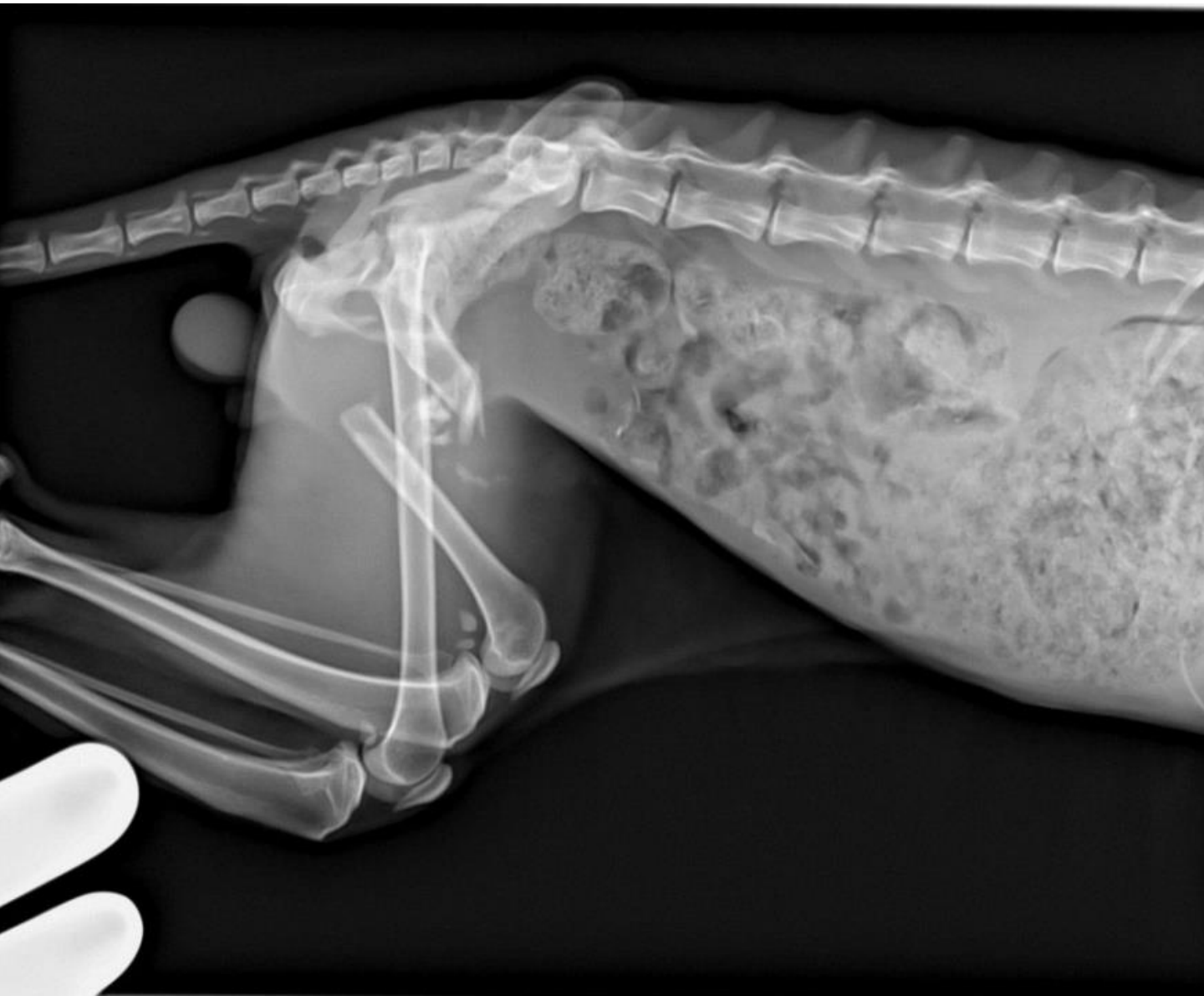
인류의 척추를 일반 방식으로 감압치료한다면
동물 척추와 같은 과 같은 방식으로 감압하는거와 같습니다.

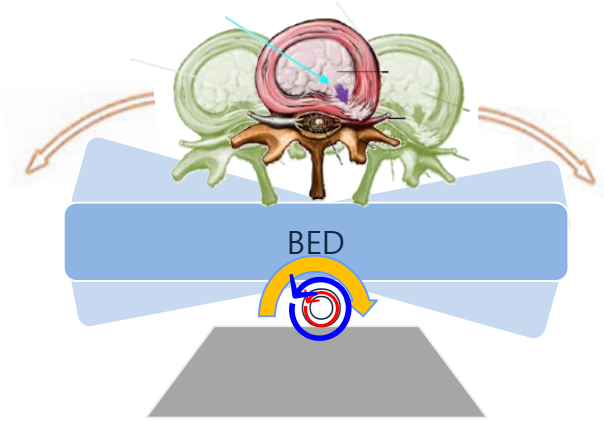


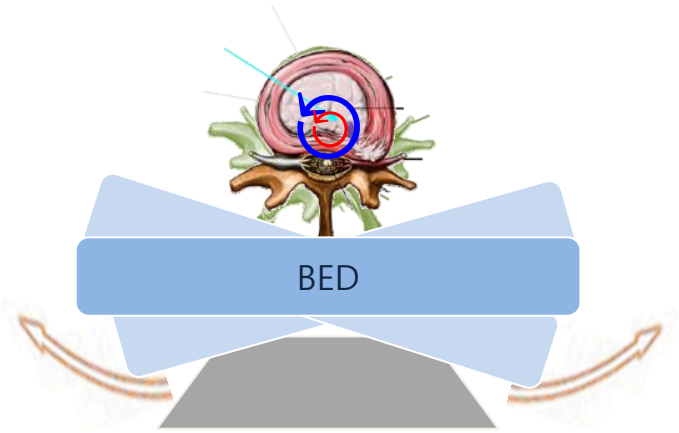








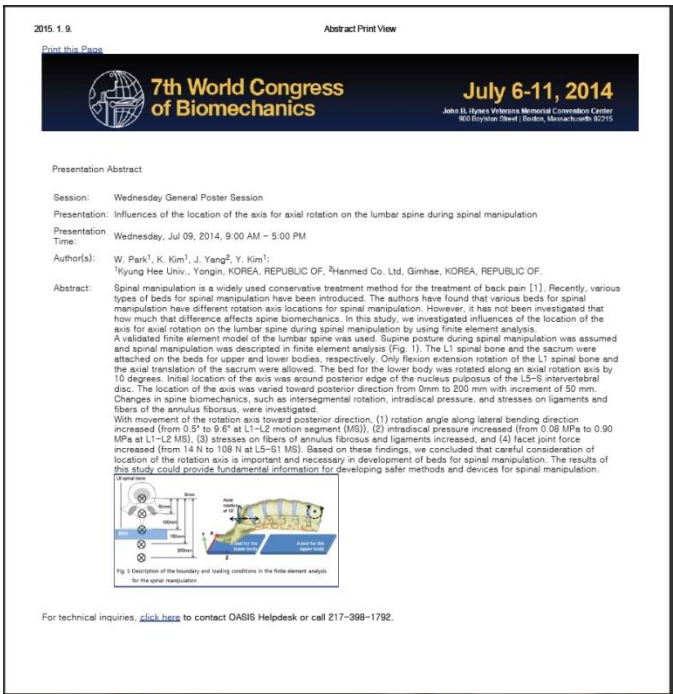




회전 axis가 베드 기준으로 운동됨으로 척추 관절의 회전 twist 기술이 위험에 노출됨

회전 axis는 척추를 중심으로 베드가 움직이는 twist 기술이어야 함.

타사 기술



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Presentation Abstract

Session: Wednesday General Poster Session

Presentation: Influences of the location of the axis for axial rotation on the lumbar spine during spinal manipulation

Presentation Time: Wednesday, Jul 09, 2014, 9:00 AM – 5:00 PM

Author(s): W. Park[1], K. Kim[1], J. Yang[2], Y. Kim[1]
[1]Kyung Hee Univ., Yongin, KOREA, REPUBLIC OF, [2]Hanmed Co. Ltd, Gimhae, KOREA, REPUBLIC OF.

Abstract: Spinal manipulation is a widely used conservative treatment method for the treatment of back pain [1]. Recently, various types of beds for spinal manipulation have been introduced. The authors have found that various beds for spinal manipulation have different rotation axis locations for spinal manipulation. However, it has not been investigated that how much that difference affects spine biomechanics. In this study, we investigated influences of the location of the axis for axial rotation on the lumbar spine during spinal manipulation by using finite element analysis.
A validated finite element model of the lumbar spine was used. Supine posture during spinal manipulation was assumed and spinal manipulation was described in finite element analysis (Fig. 1). The L1 spinal bone and the sacrum were attached on the beds for upper and lower bodies, respectively. Only flexion extension rotation of the L1 spinal bone and the axial translation of the sacrum were allowed. The bed for the lower body was rotated along an axial rotation axis by 10 degrees. Initial location of the axis was around posterior edge of the nucleus pulposus of the L5–S intervertebral disc. The location of the axis was varied toward posterior direction from 0mm to 200 mm with increment of 50 mm. Changes in spine biomechanics, such as intersegmental rotation, intradiscal pressure, and stresses on ligaments and fibers of the annulus fibrosus, were investigated.
With movement of the rotation axis toward posterior direction, (1) rotation angle along lateral bending direction increased (from 0.5° to 9.6° at L1–L2 motion segment (MS)), (2) intradiscal pressure increased (from 0.08 MPa to 0.90 MPa at L1–L2 MS), (3) stresses on fibers of annulus fibrosus and ligaments increased, and (4) facet joint force increased (from 14 N to 108 N at L5–S1 MS). Based on these findings, we concluded that careful consideration of location of the rotation axis is important and necessary in development of beds for spinal manipulation. The results of this study could provide fundamental information for developing safer methods and devices for spinal manipulation.

Fig. 1 Description of the boundary and loading conditions in the finite element analysis for the spinal manipulation

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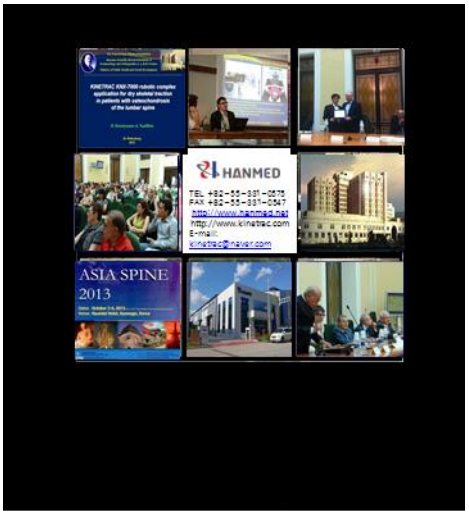
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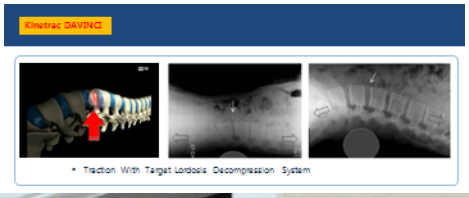
Kinetrac DAVINCI
• Traction With Target Lordosis Decompression System


Kinetrac DAVINCI
• Traction With Twist on the Cervical Spine Axis


Kinetrac DAVINCI
지금까지의 감압치료 인간보다 동물에 적합하다.
• The animal Spine
• The human Spine


Prof. C Canali
Prof. J. L. Yang
12 06 2014