

DynaWell L-Spine compression device

– product presentation



A superior way to enhance CT and MR imaging of the lumbar spine.

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DynaWell®

MRI of the lumbar spine

in supine, with and without axial loading



DynaWell



A **method** that improves lumbar spinal diagnoses in magnetic resonance imaging (MRI) and computed tomography (CT)

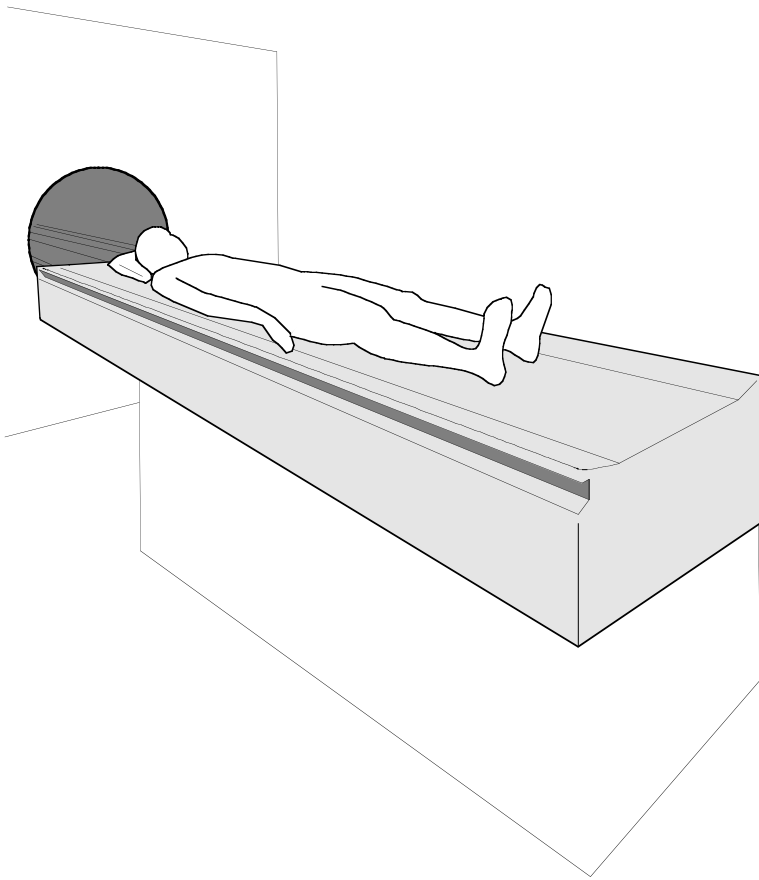
A substantial need



Approximately **60-80%** of the population experiences back pain at some point during their lives.

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MRI and CT is used to



- Diagnose the problem more accurately
- See if surgery is necessary
- Determine whether other therapies could be helpful
- Find ways to help manage the pain

Limitations with MRI and CT



- When symptoms occur in an upright position
- Most scanning is done horizontally
- Spinal disorders may remain undetected

Axial compression



- **A spinal load in the length axis between head and feet**
- **In standing position the lumbar spine is loaded with 50% of the body weight**
- **Axial Compression can be used to simulate the actual situation when the patient feels pain**

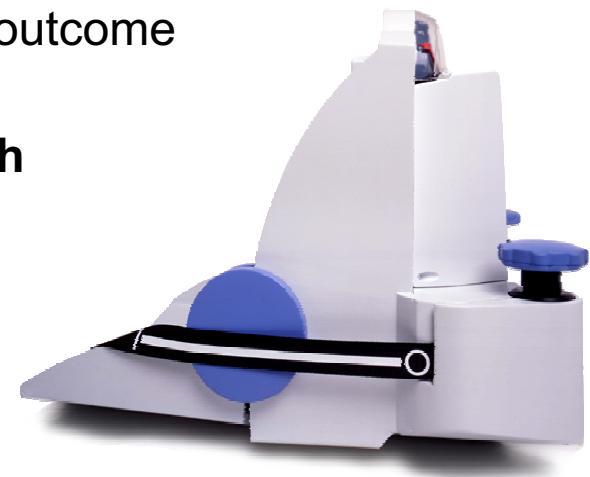
DynaWell® L-Spine offers a novel approach

- More relevant, enhanced image
- Non-invasive
- Simulates upright position
- Clinically proven (Spine, Acta Radiologica)
- Advanced approach to diagnosing previously undetected problems



The benefits of DynaWell® L-Spine

- Possibility to examine patients **in the position where they have their symptoms**
- The **diagnosis is made in the most exact way** available, using a standard MRI scanner
- A **firm basis for the treatment decision** is offered to the surgeon giving prerequisite for a superb patient outcome
- **Patients should be referred for MRI or CT with axial load !!!!**



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Indications for axial compression

AXIALLY LOADED MRI and CT
should be performed in patients with
neurogenic claudication,
sciatica
and
longstanding, unexplained LBP

DynaWell® L-Spine consists of

- 1 Spinal compression harness
- 2 Adjustable side straps
- 3 Compression monitoring device



Certifications

DynaWell L-Spine

- FDA Approved in August 1999
- CE Certificate in March 2000



What a leading expert says:

“The use of this technology will often assist in a **more specific and valid** diagnosis of spinal disease, which traditionally has been difficult during horizontal imaging.”

Alan R. Hargens, PhD, Senior Scientist, NASA's Ames Research Center, Moffett Field, CA and Professor of Orthopedics at the University of California, San Diego.

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Examples of sites where DynaWell® L-spine is **Clinically**
and **Scientifically** used:

Sweden

- Sahlgrenska University Hospital, Gothenburg
- Lund University Hospital
- Sophia Home Hospital, Stockholm
- Ersta Hospital, Stockholm
- Södersjukhuset, Stockholm
- Medicinsk Röntgen AB, Stockholm

Finland

- Orton Orthopaedic Hospital, Helsinki

Norway

- Kysthospitalet, Bergen

UK

- Frenchay Hospital, Bristol
- Medtel U-K Limited, London

and...

Germany

- Orthopädische Universitätsklinikum, St Joseph Hospital, Bochum
- Universitätsklinikum Mannheim
- Friedrich-Schiller-Universität, Jena

USA

- University of California (UCSD), San Diego, California
- VA Hospital, Tucson, AZ
- Rochester University Hospital, NY
- Massachusetts General Hospital, Harvard Medical School, Boston, MA
- Thomas Jefferson Hospital, Philadelphia, PA

Russia

- Central Clinical Hospital, Moskow

India

- Dr Jankharia's Imaging Centre, Mumbai

...and several others