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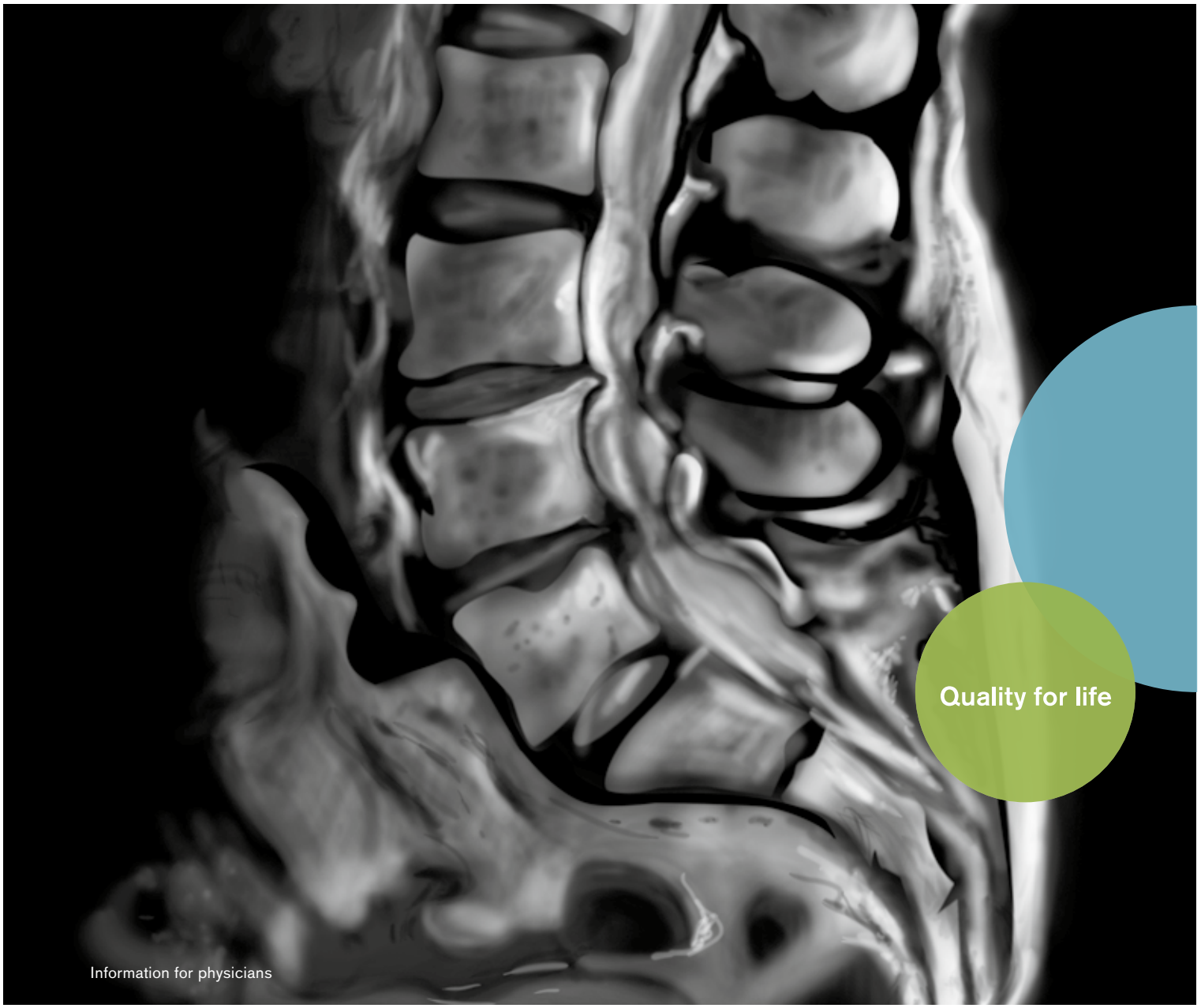
Active support for back pain relief

Dyneva. Improvement through Movement.



The most widespread cause of illness

Back pain causes 40 million days of sick leave[1]

7.4 billion dollars

Back pain exacerbations and lost productive time cost in United States workers 40 to 65 of age costs employers an estimated 7.4 billion/year.[1]

20%

About 20% of people affected by an acute low back pain develop chronic low back pain with persistent symptoms at one year.[2]

50%

One half of all working Americans admit to having back pain symptoms each year.[3]

60%–70%

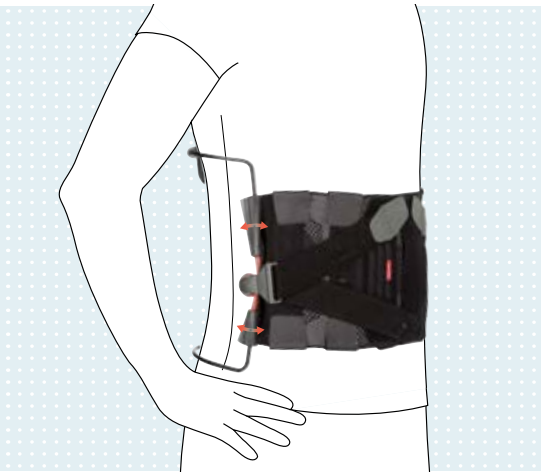
The lifetime prevalence of non-specific low back pain is estimated 60-70 % in industrialized countries.[4]

According to Dr. Sylvia Schreyer, Senior Consultant in the Spinal Injuries Unit at Schön Klinik in Nuremberg/Fürth, back pain is often non-specific, without any anatomical or functional cause. In those cases where specific back pain is diagnosed, the cause is often degeneration of various segments of the spine.

Above-average patient compliance
High level of acceptance by patients

66 % say that wearing a brace reduces their pain.[5]

96 % say the brace provides them with a sense of security.[5]



Use of orthotic devices

A 2014 study by eurocom e.V. shows that patients who wear prescribed orthotic devices found them very helpful and said they deliver above-average benefits. Our many years of experience in the field of orthotics testify that:

- There is great willingness to try all conservative treatment options
- Patient compliance is particularly high for braces that are used on a daily basis
- Motivated users who have been briefed on the use of their brace achieve good results with them.

A study on spinal stenosis has clearly defined the link between the use of lumbar braces and the patient being able to walk greater distances. Patients with these symptoms benefit from the stabilisation provided, which can have a positive, alleviating effect on pain levels.[6]

Reason enough, therefore, for us to introduce the Dyneva, which extends the patient's entire spinal column during movement.[7] Thanks to the properties described above, the brace not only gives the patient a sense security, but at the same time reduces pain and increases mobility.

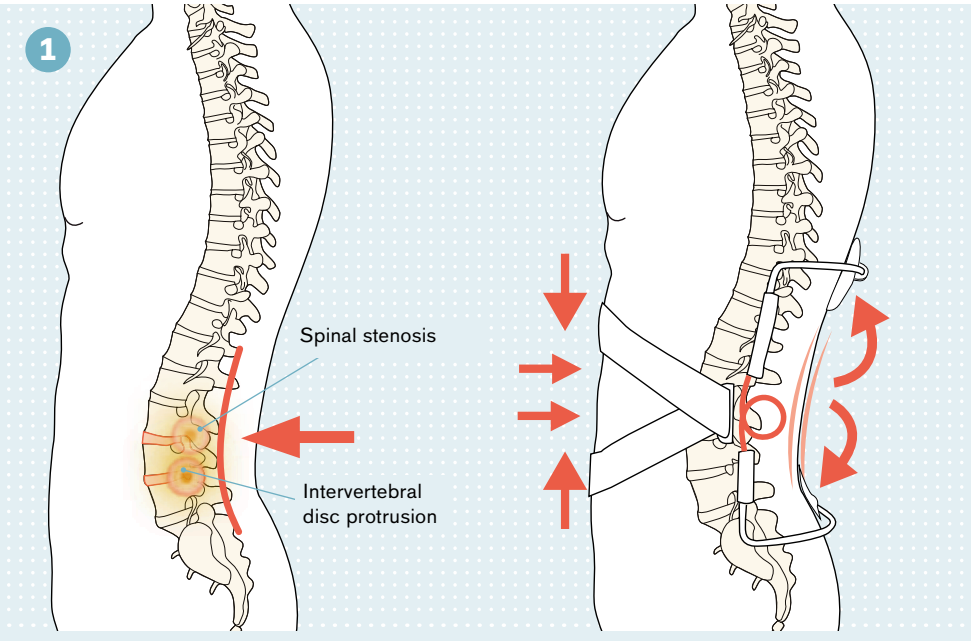
Sources on p. 7

How the Dyneva works
Extension through movement

Benefits at a glance

- Unique spring mechanism extends the spine in motion
- Biomechanically and clinically tested
- Regulates muscle strength dynamically
- Sustainably reduces the load on motion segments and facet joints

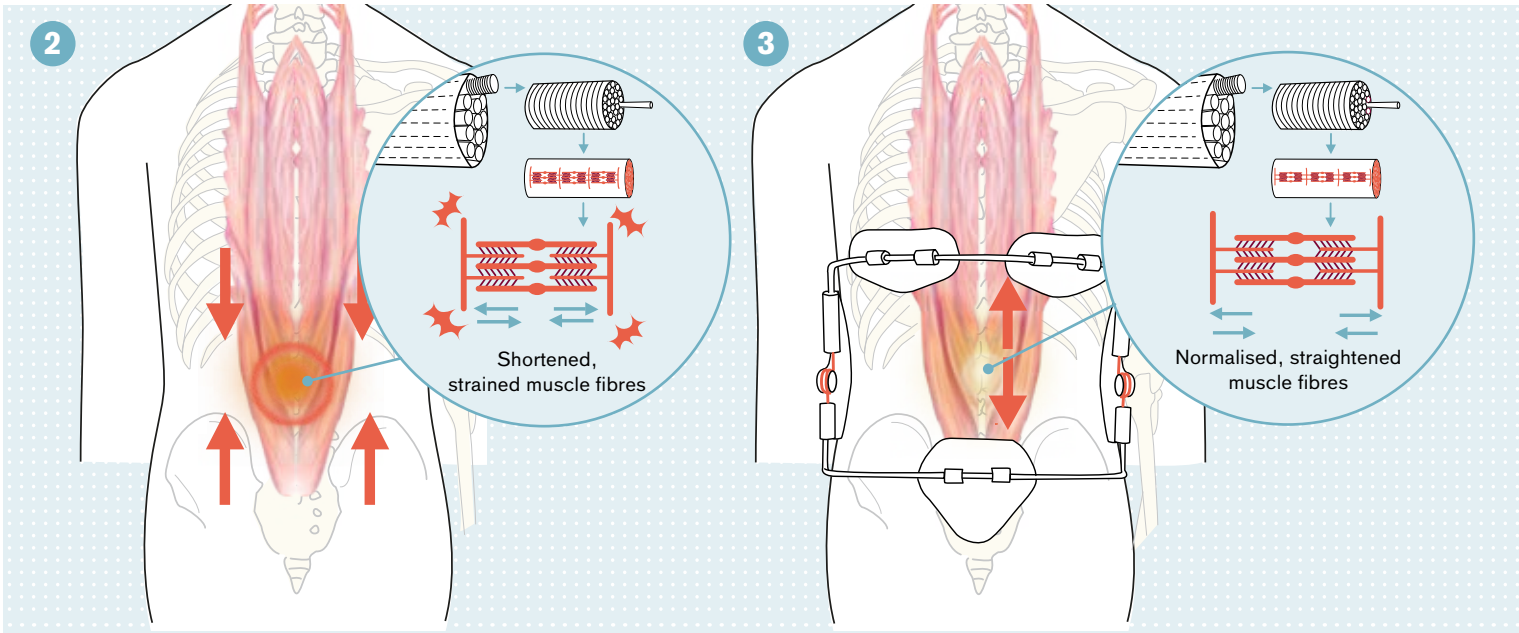
With its unique spring mechanism, the Dyneva successfully and sustainably reduces the compression of motion segments and facet joints caused by muscle strength and extends the lumbar spine. As a result, the entire spinal column is extended during movement, which in turn can lead to a widening of the spinal canal. This enables users not only to walk greater distances, but also to participate actively in everyday life.



1 Spinal stenosis, often caused by the formation of osteophytes in the spinal canal, plus degeneration and the resulting inflammatory capsular ligament structures and protrusions which can narrow the spinal canal.

“What's special about the Dyneva is its spring mechanism, which can alter the position of the spine.”

Dr. Klaus J. Schnake, Senior Consultant and Medical Director of the Spinal Injuries Unit at Schön Klinik in Nuremberg/Fürth, developed the Dyneva together with a group of experts from the Clinical Excellence Circle. This brace was developed specifically to support lumbar spine conditions in normal, everyday movements. According to Dr. Schnake, the key benefit of the Dyneva brace lies in extending the patient's radius of action – a factor which also improves their quality of life.



2 The highly magnified image of the muscle fibres shows the compacted, painful muscle structure.

3 The Dyneva extends dynamically and reduces compression caused by muscle strength. This effect becomes perceptible during movement.

Sick leave for back pain? No thanks!
Improvement through Movement.

Help us to change attitudes! Conscious and deliberate movement – rather than immobilisation – has the greatest impact on the efficacy of the Dyneva

Unlike conventional braces, the Dyneva focuses on promoting physical activity and thus maintaining a normal lifestyle. A user survey in clinical practice showed that use of the Dyneva reduced pain significantly, enabled users to walk further, with a physiological gait pattern. Patients with lumbar-spinal problems found that wearing the Dyneva for just two to four hours per day during physical activity, was enough to reduce their pain.

Benefits to the patient

- The brace only needs to be worn during active movement
- Patients confirm that the brace is easy to don and doff.
- High patient compliance due to its open-back construction
- Patients are soon able to resume activities of daily living

Dynamically combatting pain
Summary of indications

Three key medical-history questions for Dyneva patients:

- Is the patient's leg pain related to the distance they walk?
- Does the pain lessen when they are seated?
- Does the patient feel increased pain in the lumbar spine when lying down or when standing for longer periods?

Indications at a glance

- Lumbar spinal stenosis
- Lumbar facet joint syndrome
- Lumbar nerve root irritation (lower back pain, sciatica)
- Lumbar instability (e.g. spondylolisthesis, spondylolysis)
- Intervertebral disc prolapse and protrusion of the lumbar spine

Sources

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[4] This total represents only the more readily identifiable costs for medical care, workers compensation payments and time lost from work. It does not include costs associated with lost personal income due to acquired physical limitation resulting from a back problem and lost employer productivity due to employee medical absence. In Project Briefs: Back Pain Patient Outcomes Assessment Team (BOAT). In MEDTEP Update, Vol. 1 Issue 1, Agency for Health Care Policy and Research, Rockville

[5] Eurocom e.V.(2014). Mehr Lebensqualität, weniger Schmerzen. Retrieved from www.eurocom-info.de

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Please contact us if you have any further questions or would like more information.

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