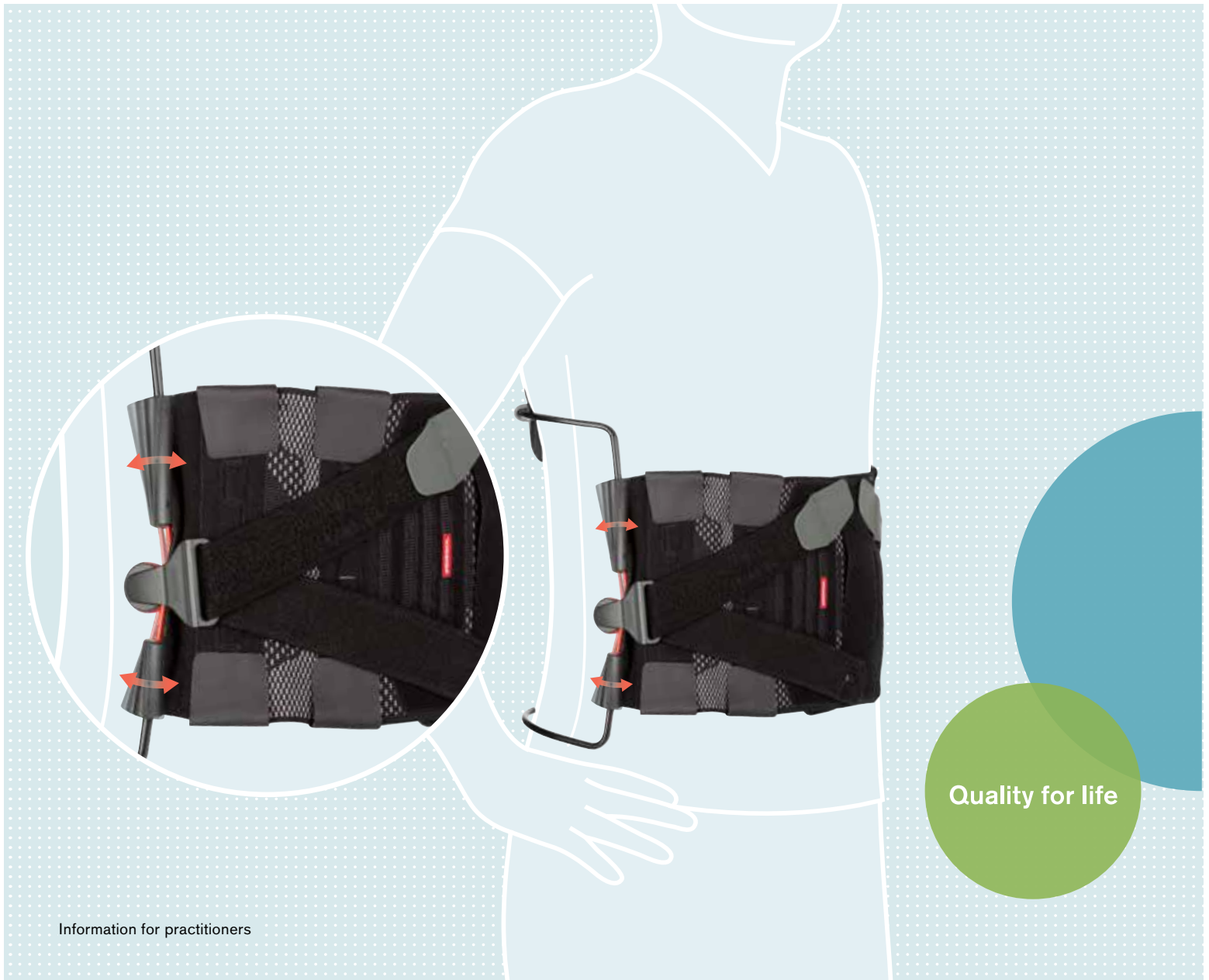


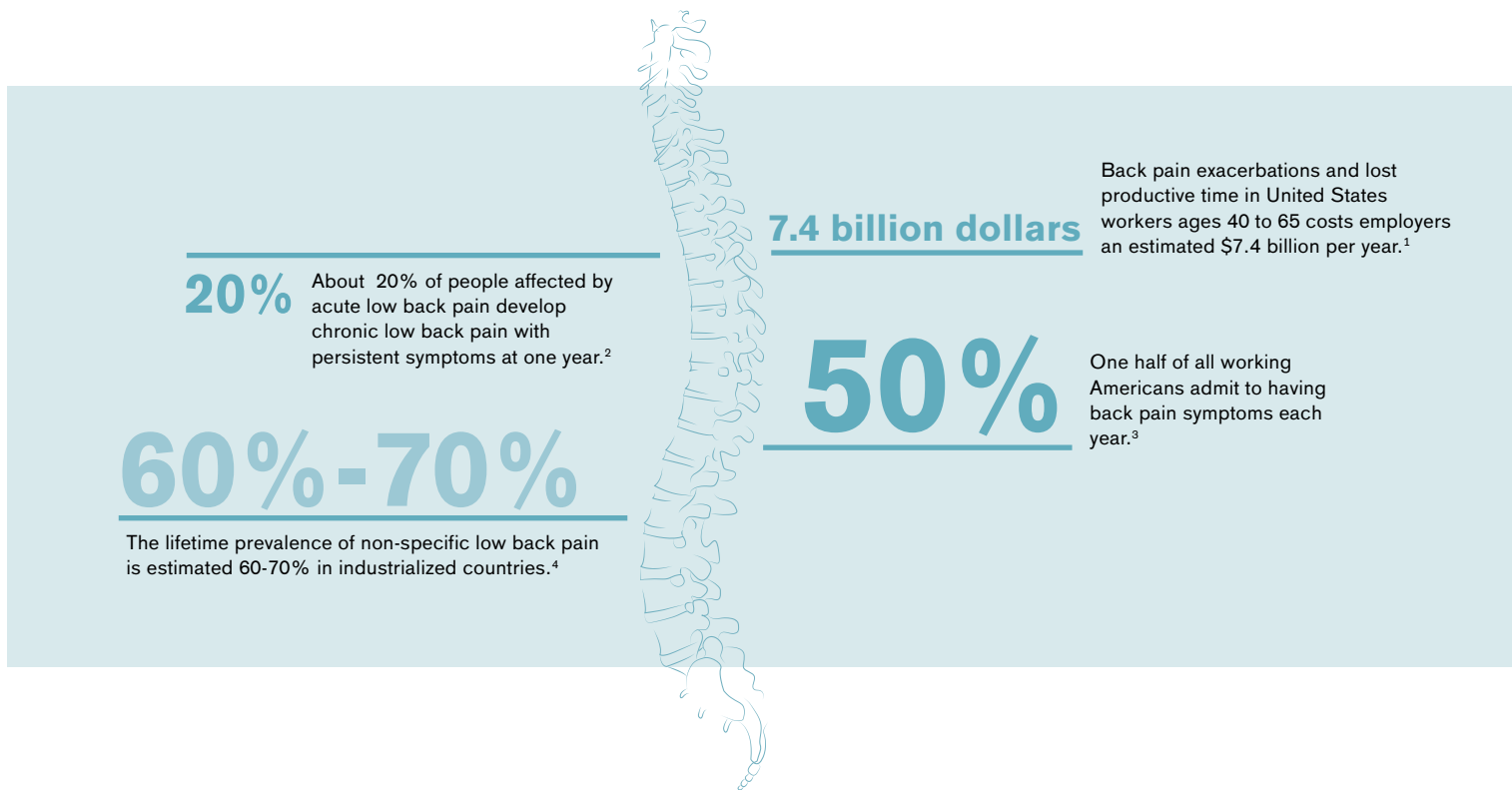
# Active support for back pain relief

Dyneva. Improvement through Movement.



# The most widespread cause of illness

## Back pain causes 40 million days of sick leave<sup>1</sup>



According to Dr. Sylvia Schreyer, a 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 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.<sup>5</sup>

96% say the brace provides them with a sense of security.<sup>5</sup>

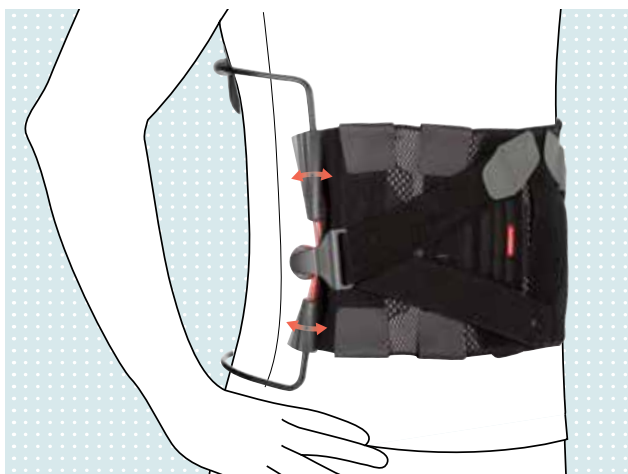
### Use of orthotic devices

A 2014 study by eurocom e.V. shows patients who wear prescribed orthotic devices found them very helpful and that 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

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 stabilization provided, which can have a positive, alleviating effect on pain levels.<sup>6</sup>

Reason enough for us to introduce the Dyneva, which extends the patient's entire spinal column during movement.<sup>7</sup> Thanks to the properties described above, the orthosis not only gives the patient a sense security, but reduces pain, and increases mobility.



• See pack page for sources

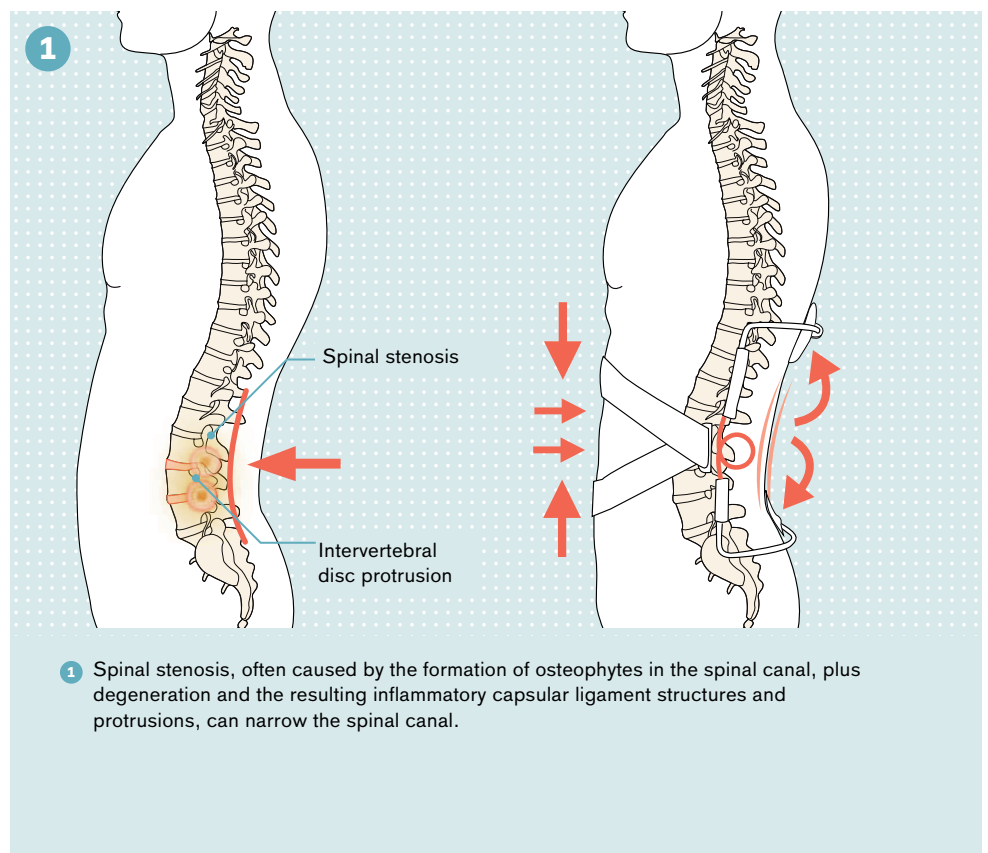
# How the Dyneva works

## Extension through movement

### Benefits at a glance

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

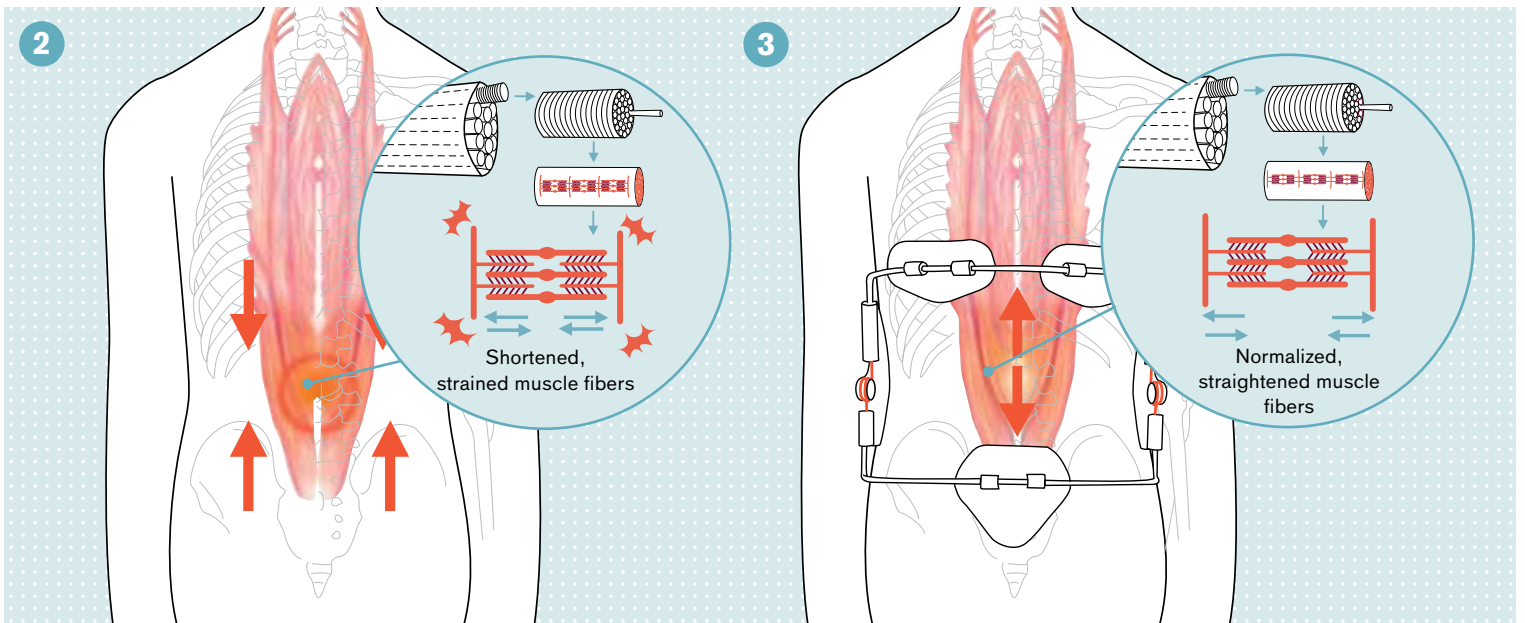
With its unique spring mechanism, the Dyneva successfully and sustainably reduces the compression of motion segments and facet joints caused by muscle strength, and extends the lumbar spine. As a result, the entire spinal column is extended during movement, which can lead to a widening of the spinal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





“The Dyneva is very easy to fit. The flexibility of the frame and the abdominal strap allow me to successfully fit patients of all shapes and sizes. The freedom of movement they gain as a result of the spring mechanism has proved to be the key benefit to my patients. To date, all my patients have responded positively to the Dyneva.”

Martina Krausser, Orthotist



2 The highly magnified image of the muscle fibers 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 change attitudes! Conscious and deliberate movement – rather than immobilization – 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 and enabled users to walk farther 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 the brace is easy to put on and take off
- ▶ High patient compliance due to its open-back construction
- ▶ Patients are able to resume activities of daily living sooner



## Sources

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- [1] Spine (Phila Pa 1976). 2006 Dec 15;31(26):3052-60, Back pain exacerbations and lost productive time costs in United States workers, Ricci JA, Stewart WF, Chee E, Leotta C, Foley K, Hochberg MC. <http://www.ncbi.nlm.nih.gov/pubmed/17173003>
- [2] [http://www.ninds.nih.gov/disorders/backpain/detail\\_backpain.htm](http://www.ninds.nih.gov/disorders/backpain/detail_backpain.htm) 2015 National Institute of Neurological Disorders and Stroke
- [3] Jensen M, Brant-Zawadzki M, Obuchowski N, et al. Magnetic Resonance Imaging of the Lumbar Spine in People Without Back Pain. N Engl J Med 1994; 331: 69-116.
- [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](http://www.eurocom-info.de)
- [6] Levendoglu F, et.al. Turkiye Klinikleri Journal of Medical Sciences, 2009, The effect of corset on walking time in Lumbar Spinal Stenosis.
- [7] Brüggemann et al., Institute of Biomechanics and Orthopaedics at the German Sport University Cologne (2015).

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

