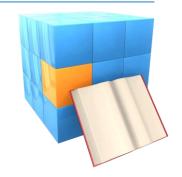


# EXERCISE OF THE WEEK 9 MOBILISATION OF THE LUMBAR SPINE



#### Get fit at work







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#### Cooperative Project of AHS and KNSU

Authors: Frank Uwe Heinze, Caroline Richter

Translator: Philipp Hählke











#### **Overview**

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# **EXERCISE CARD WEEK 9**

## Mobilisation of the lumbar spine

**Exercise 9.1: Pelvis tilt seated** 

**Exercise 9.2: Pelvis tilt standing** 

#### Starting position/SP - 1

Seated
 Sit on the edge of the chair.





Standing

Keep your knee and hip joints in a slightly flexed position.





- **2** Actively tilt your pelvis forward.
  - While tilting forward (hollow back position) breathe in slowly.
- **3** Actively tilt your pelvis backwards.
  - While tilting backwards (round back position) breathe out slowly.

Actively tilting your pelvis backwards causes an increased activity of the lower rectus abdominis muscle against the force of gravity. Therefore, it requires more strength than tilting the pelvis forward, which is why we breathe out while tilting the pelvis backwards.

3-5 sets with 8-10 repetitions



### Pelvis tilt seated





#### **Function**

• Mobilisation of the lumbar spine

#### Information:

#### Tilting the pelvis backwards

- Causes an increased activity of the lower rectus abdominis muscle against the force of gravity.
- Therefore, it requires more strength than tilting the pelvis forward, which is why we breathe out while tilting the pelvis backwards.

**Sequence** 







3-5 sets with 8-10 repetitions

#### SP/EP

1 Upright seated position at the edge of the chair. Your arms hang down loosely at the sides.

**Tips** 

- 2 Actively tilt your pelvis forward (hollow back) and breathe in slowly.
- 3 Actively tilt your pelvis back (round back position) and breathe out slowly.

3



# **Pelvis tilt standing**





#### **Function**

Mobilisation of the pelvis

#### Information:

#### Tilting the pelvis backwards

- Causes an increased activity of the lower rectus abdominis muscle against the force of gravity.
- Therefore, it requires more strength than tilting the pelvis forward, which is why we breathe out while tilting the pelvis backwards.

# Sequence









#### SP/EP

1 Hip and knee joints are slightly

**Tips** 

- Your hands rest on the illiac crest.
- 2 Actively tilt your pelvis forward (hollow back) and breathe in slowly.
- 3 Actively tilt your pelvis back (round back position) and breathe out slowly.



# Right and wrong Pelvis tilt seated



9.

#### Right

 Movement is performed in the lumbar spine





#### Wrong

 Movement is performed in the upper trunk







#### **List of references**

#### Illustrations/ images

Number	Creator		
All pictures	Caroline Richter		
Illustration: titel	www.colourbox.de (ID#18474676); modified by Jan-Holger Nahler		

#### **Videos**

Number	Creator
9.1/9.2	Caroline Richter / Sprecher: Frank Uwe Heinze

#### **German narration and music**

Video	Narrator/ Composer	Track title
9.1/9.2	Frank Uwe Heinze	Enjoy the Moment

#### **Creators of the article**

Author	Counsellor	Institution
Frank Uwe Heinze		Physiotherapist
		Institute for Preventive Medicine of the Bundes-
		wehr/ Koblenz
Caroline Richter, Eva Keller/	Minnich, Marlis	Institute of Sports Sciences, University of Kob-
students		lenz- Landau, Campus Koblenz
Jan-Holger Nahler	Bauer, Sabine	Head of the AHS, Universität Koblenz - Landau,
		Campus Koblenz

#### **Translation**

Translator	Counsellor	Institution
Philipp Hählke/student	Mara Hammes	Institute of Sports Sciences, University of Koblenz-
	/student	Landau, Campus Koblenz