

Dr. Christian Demange

## Rational Use of NiTi Shape Memory Wires

Use self-ligating brackets  
and NiTi shape memory wires  
in a scientifically sound and  
evidence-based manner.

**Friday, November 20, 2026**  
Copenhagen 8:45–14:45



**Experts in Orthodontics**  
GC Orthodontics Europe GmbH  
[www.gcorthodontics.eu](http://www.gcorthodontics.eu)

**Understand the biomechanics** of NiTi shape memory alloys and use the advantages in your clinical experience.

**Optimize your clinical workflow** by reducing the number of wire changes.”

Generally, the orthodontist uses wires “believing” the forces exerted on the teeth.

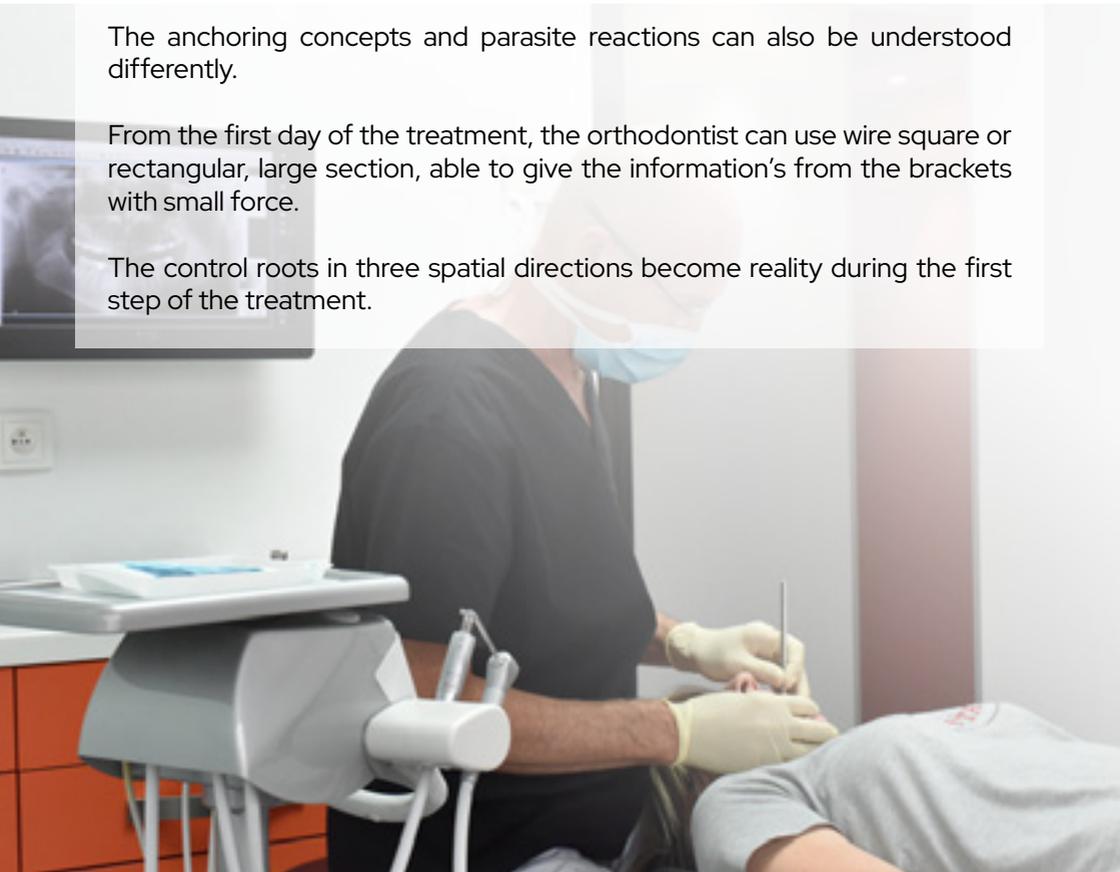
The load/deflection ratio should be low and constant to respect the histological and biomechanical requirements accepted by everyone. The orthodontists know these imperatives and during the first time of the treatment, they use round wires of small sections to get low force. In this case, they don't have any control, including torque. These designs are right when using conventional wires but not necessarily with superelastic with shape memory. The feature of these wires is a modulus of elasticity that evolves over the martensitic transformation.

From this realization, classic treatment needs.

The anchoring concepts and parasite reactions can also be understood differently.

From the first day of the treatment, the orthodontist can use wire square or rectangular, large section, able to give the information's from the brackets with small force.

The control roots in three spatial directions become reality during the first step of the treatment.





**Dr. Christian Demange** obtained his certification in dental surgery from the **University of Lyon, France, in 1983**, and his master's degree in orthodontics in **1988**. Since **1987**, he has maintained a private practice in Lyon, specializing in **adult treatments** and **lingual orthodontics**. Additionally, Dr. Demange served as a professor at the **University of Lyon**, where he taught orthodontics to **post-graduate students** for **15 years**. His master's thesis focused on research related to **torque in normal occlusions**.

Dr. Demange's areas of interest and publications revolve around biomechanics, lingual orthodontics, and shape memory alloys. He has delivered numerous lectures in France and Europe, covering topics such as NiTi alloys, self-ligating brackets, and lingual techniques.

## Program

- Mechanics and biomechanics of NiTi shape memory wires – clinical applications
- Advantages of larger cross-section wires throughout the different treatment phases – torque – anchorage – Class II correction
- Control of side effects with NiTi shape memory wires – sliding mechanics
- NiTi shape memory wires and self-ligating brackets: the winning combination

## Practical Information

Registration is binding and can be made via e-mail: [sz@ortodontiservice.dk](mailto:sz@ortodontiservice.dk)

Registration and payment deadline: October 15, 2026

Venue: Radisson Collection Royal Hotel, Hammerichsgade 1, 1611 Copenhagen V, Denmark – The course will be held in English.

Price: DKK 2,990.00 per participant, including catering.

To complete your registration, payment must be received no later than October 15, 2026, to:

**Ortodonti Service A/S**

**IBAN: DK60 6748 0001 0910 97**

**SWIFT code: SYBKDK22**

## DARE TO THINK DIFFERENTLY!

**NO**, certain large-dimension square wires do not necessarily produce greater forces than some small-dimension round wires.

**NO**, anchorage does not depend solely on auxiliaries and complex systems.

**NO**, unwanted side effects are not inevitable.

**NO**, repeated wire changes during treatment are not necessary.

**YES**, with simple, evidence-based methods, you can improve the quality of your practice, both for your patients and for yourself.



**INFORMATION AND REGISTRATION:  
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