

SOCKET SHIELD TECHNIQUE

Markus Hürzeler



Socket Shield Technique

By Dr. Markus Hürzeler



SUMMARY

? Topic:

The evolution of the technique over the years: biological rationale, new surgical protocol and classification

👁 Objectives:

Offer your patients minimally invasive, cost-effective and less time consuming implant treatments
Preserve soft and hard tissue volumes by maintaining the integrity of the socket
Apply the new classification system
Design the shield and prepare the implant bed through the root using guided templates
Manage the gap between the implant and the shield
Maintain papilla height and gingival architecture to achieve optimal esthetic results
Effectively manage the gap between the implant and the shield
Reduce the surgical invasiveness and ensure long-term stability

📌 WHY TO ENROL:

1- Offer immediate implant treatments in the anterior region, completed in a single surgical session, with optimal long-term esthetic and functional results.

2- Discover every stage of the surgical protocol, from shield design to implant placement and gap management to promote osseointegration

3- Fully understand the new case classification strategy to know how to optimally anchor the shield in every specific clinical scenario and identify the ideal cases for beginners to start with.

LEVELS

Difficulty Advanced

Theory ●●●●●

Practice ●●●●●

KEY INFO

🌐 English

▶ On Demand

🔗 Implantology

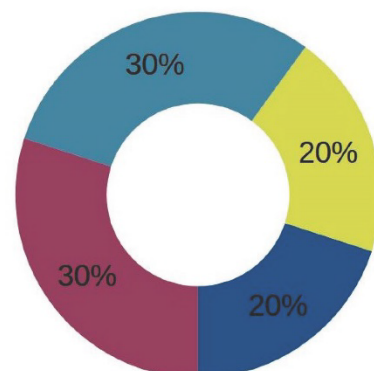
🕒 5h

📋 5 Lectures + 1 ReLIVE Surgery

⚙ Clinical Yes

📌 NO

SKILLS YOU WILL LEARN



■ Surgical Protocol ■ Biological Rationale

■ Case Selection ■ Shield Design and Anchorage



Channel Description:

Dr. Markus Hürzeler and osteocom welcome you to this learning experience dedicated to the **Socket Shield Technique**.

Today, it is essential for clinicians to offer their patients **immediate implant treatments** that ensure **long-term stability** and excellent soft tissue outcomes, especially in the **esthetic zone**. At the same time, it is crucial to **minimize** the number of **surgical procedures**, reduce **morbidity**, and enhance **patient comfort**.

By participating in this course, you will discover how the Socket Shield Technique can meet all these needs, allowing for the **immediate placement** of implants in **post-extraction sockets** in the **frontal area** with a **single surgical procedure**.

This technique not only **reduces biological** and **financial costs** for the patient but also provides **long-term results** that are comparable, if not superior, to delayed implant placement.

Dr. Markus Hürzeler, the **inventor** of this technique, will guide you through the **evolution** of surgical protocols, highlighting the refinements and **innovations** introduced over the past 15 years.

By the end of the course, you will have a deep understanding of the **biological rationale** behind this approach and the **new classifications** and through several clinical cases, the most **frequently asked questions** will be addressed, providing practical and applicable answers for your daily practice.

Finally, thanks to a **ReLIVE Surgery**, the lecturer will show **each step of the surgical protocol** in detail, commenting on every phase of the procedure to ensure a complete understanding of **all practical aspects**.

Join Dr. Hürzeler and **uncover all the secrets of the Socket Shield Technique** to achieve predictable and effective implant results in the esthetic zone, fully meeting your patients' needs and expectations!

In particular, this course focuses on:

- The **evolution** of the Socket Shield Technique and its **advantages** over traditional techniques
- **Immediate implant placement** in post-extraction socket
- The **biological rationale** behind this approach
- A **new classification system** and case selection strategy to ensure predictable results
- How to **stabilize the shield** by selecting the optimal anchoring method
- **Clinical, radiographic** and **volumetric** evidence after long-term follow-up
- Possible **complications** of Socket Shield technique and their management
- Step-by-step **surgical protocol**

At the end of the course, you'll be able to:

- Offer your patients **minimally invasive**, cost-effective and less time consuming implant treatments
- Preserve **soft and hard tissue volumes** by maintaining the integrity of the socket
- Apply the new classification system and identify the **ideal cases for beginners**
- **Design the shield** and prepare the implant bed through the root using **guided templates**
- Maintain **papilla height** and **gingival architecture** to achieve optimal esthetic results
- Effectively **manage the gap** between the implant and the shield to **promote the osseointegration**
- Reduce the **surgical invasiveness** and ensure long-term stability

Who is the course for?

Participation in this video course is highly recommended for all **implantologists** seeking a comprehensive and **up-to-date overview** of the **Socket Shield Technique**.

This course is valuable both for those who **already have experience** with this technique, who will gain useful **tips&tricks** and discover the **latest**

refinements and innovations, and for those who are just **beginning** to explore this approach, as they **will be guided step by step** through its principles and **clinical applications**.

Ok, but how does it work?

This **5 hour** course is divided into **5 video lectures** and **1 ReLIVE Surgery** that you can find by accessing your personal osteocom area from any device and downloading from the osteocom mobile app, available on iOS and Android.



Video Lecture 1 - Evolution of Socket Shield surgery (1h 20min)

Description:

This first video lesson is dedicated to the **evolution** of the **Socket Shield Technique**, from its inception to the present day.

Dr. Markus Hürzeler provides a detailed explanation of the process that led to the **development of the technique**, focusing on the **biological rationale** and starting from the idea of achieving results with **immediate implants** that are comparable to, if not better than, those obtained with delayed implants.

Participants will understand that the main challenge for immediate implants in the aesthetic zone is **maintaining the volume** of the **socket** after extraction. They will also observe how Dr. Hürzeler, over the years, has developed the **correct protocol** to achieve this goal.

To this end, through various **clinical cases**, the speaker showcases the different outcomes in **preserving the post-extraction socket volume** obtained by inserting bovine bone, gingival grafts, a combination of these, or allowing the socket to heal spontaneously.

Subsequently, Dr. Hürzeler discusses the current **definition of success in implantology** within the **esthetic zone**, emphasizing that the maintenance of **soft and hard tissue volumes** in three dimensions is a key factor in determining the outcome of treatment, especially in the anterior area.

Finally, the lesson focuses on managing the **most common complications**, such as the presence of a **fracture line**.

In particular, this lesson covers the following topics:

- Socket Shield Technique **evolution**: a step-by-step **overview**
- A comparison between **immediate** and **delayed implant** placement
- How to maintain the **volume** of a **socket after extracting** a tooth?
- The **biological rationale** behind the Socket Shield Technique
- Possible **complications** of and their management
- Clinical, radiographic and volumetric data after **long-term follow-up**

Video Lecture 2 - A 3-Dimensional classification of the Socket Shield procedure (21min)

Description:

This lesson focuses on the **latest classifications** of the Socket Shield Technique, providing participants with a valuable tool to **assess the complexity** of different **clinical scenarios** and select the most suitable patient for this technique.

Through clinical clips, Dr. Markus Hürzeler illustrates the characteristics of the **four classes** into which the spectrum of possible clinical cases for the Socket Shield Technique is divided.

From the **simplest class**, where the **presence of buccal bone** ensures great stability for the shield, to the more complex fourth-class cases, where the absence of buccal bone requires **anchoring the shield** in the apical area, participants will learn the necessary **precautions** for each classification.

In particular, this lesson covers the following topics:

- **Case selection**: Evaluating each specific case before starting the treatment
- Assessing the **presence** or **absence** of **buccal bone** for shield anchorage
- Buccal vs apical **anchorage**
- **Preparation** of the **implant bed** through the root

Video Lecture 3 - Step-by-step Socket Shield surgical procedure (41min)

Description:

This lesson provides a detailed explanation of **each phase** of the **surgical protocol** for the Socket Shield Technique.

Dr. Hürzeler shows the treatment of a patient with prosthetic crowns on the central incisors who exhibit **severe asymmetry** of the **gingival contours**.

Among other key aspects, participants will understand the importance of carefully **removing all root canal material** and **composite** from the root once the prosthetic crown is removed. This step facilitates the preparation of the **implant bed through the root** using drills.

This lesson demonstrates how to create the correct **shield design based on case classification**, allowing for an optimal choice of the **shield's anchorage position**, and also covers the management of the **gap between the implant and the shield**, encouraging reflection on whether or not to use **filling materials**.

After reviewing the surgical protocol and long-term treatment outcomes, participants will clearly notice the **advantages of this technique**, such as the absence of swelling, pain, and hematomas, as well as the benefit of completing a complex implant case in the aesthetic zone with a **single surgical procedure**.

In particular, this lesson covers the following topics:

- Preparation of the implant bed
- **Removal** of the palatal part of the **root** and the apex
- Creation of the **shield design** (thickness and length, biological and mechanical considerations)
- Coronal shield **preparation**
- Check the **stability** and **integrity** of the shield
- **Implant placement**

Video Lecture 4 - FAQs about the Socket Shield technique (1h 08min)

Description:

In this video lesson, Dr. Markus Hürzeler addresses the most **frequently asked questions** about the Socket Shield Technique, debunking some of the most common misconceptions based on his **15 years of clinical experience**.

Participants will learn **the ideal dimensions** of the shield, both in terms of **thickness** and **length** in the apico-coronal direction, as well as the key considerations to keep in mind during the **implant placement phase**.

In particular, this lesson covers the following topics:

- How **thick** should the shield be?
- How **long** should the shield be in the apico-coronal direction?
- Should we **prepare** the shield till the **buccal bone crest**?
- Should the **implant have contact** with the shield?
- Should the **gap** between the shield and implant be filled with **grafting materials**?
- How far should the shield be **prepared interproximally**?

Video Lecture 5 - Clinical scenarios (32min)

Description:

What **clinical outcomes** can be achieved with the Socket Shield Technique?

Dr. Markus Hürzeler analyzes **various clinical cases** to clarify the indications for using this technique, particularly in the **canine area**, a region where the risk of **resorption** is significantly higher.

Participants will appreciate how this technique enables the **formation of a stable papilla** that looks like a natural papilla between implants.

In particular, this lesson covers the following topics:

- **Use indications** of this technique
- The application of this technique in the **canine area**
- The treatment of a **fractured tooth**
- How to maintain the **papilla height**

Video Lecture 6 - Final ReLIVE Surgery (45min)

Description:

This training experience concludes with a **final ReLIVE Surgery** showing the **practical application** of all the concepts presented in the previous lessons.

Dr. Hürzeler performs the treatment of a patient with **fractures in both central incisors** by creating **two second-class shields**, anchored at the **interproximal level**.

A step-by-step discussion covers the key phases, including the **removal of old crowns**, elimination of all residual composite, preparation of the **implant bed** and **shields**, and the implant placement protocol.

In particular, this lesson covers the following topics:

- The treatment of a **class II socket shield**
- The removal of **old composite** and root canal **filling material**
- Preparation of the **implant bed**
- How to **check the position** of the **bone** with the periodontal probe



Scan the QR and
enter the course



Author Bio:

Markus Hürzeler has produced more than 150 scientific publications in the field of implant dentistry, periodontology, and tissue regeneration and regularly gives courses at national and international events. He co-founded the Hürzeler/Zuhr Education Center together with Dr. Zuhr, where they teach the concepts and philosophy of state-of-the-art dentistry. Together with his working partners created the Socket Shield technique.

