

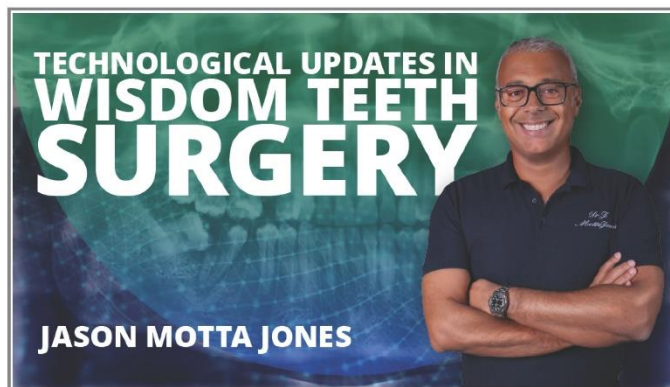


TECHNOLOGICAL UPDATES IN WISDOM TEETH SURGERY

JASON MOTTA JONES

Technological updates in wisdom teeth surgery

By Dr. Jason Motta Jones, Dr. Tommaso Ghedini and Dr. Federico Guerri



SUMMARY



Topic:

Discover how to simplify, shorten time and minimize complications through a tech and computer-guided approach.



Objectives:

- The latest and greatest technologies that can enhance the extractive protocol
- Technological-based diagnostic procedures
- The benefits of adopting piezoelectric devices
- Digital tools in wisdom teeth extraction
- How to reduce complications?
- Guided tooth sectioning and digital planning
- Segmentation and expansion
- 3D Slicer SW tutorial
- The use of a mixed approach: manual and piezoelectric flap elevators



WHY TO ENROLL?

1. You will be able to avoid wisdom teeth extraction complications by adopting an easy digital approach for both planning and execution.

2. You will simplify your clinical routine thanks to the digital tools and the newest computer guided techniques.

3. You will access a corpus of clinical video thanks to which you will acquire practical skills such as the use of piezoelectric devices and magneto-dynamic instruments.

LEVELS

Difficulty Advanced

Theory ●●●

Practice ●●●●●

KEY INFO



English



On Demand



Oral Surgery



5h



4 Theory and 8 Clinical Videos

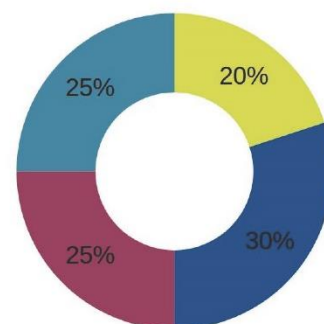


Clinical Yes



NO

SKILLS YOU WILL LEARN



■ Extractive Protocols ■ Piezoelectric Devices

■ Digital Planning ■ Technological Updates



Why to enroll:

- You will be able to avoid wisdom teeth extraction complications by adopting an easy digital approach for both planning and execution.
- You will simplify your clinical routine thanks to the digital tools and the newest computer guided techniques.
- You will access a corpus of clinical video thanks to which you will acquire practical skills such as the use of piezoelectric devices and magneto-dynamic instruments.

Description of the course:

Dr. **Jason Motta Jones**, in collaboration with Dr. **Tommaso Ghedini** and **Federico Guerri**, welcomes you to “**Technological updates in wisdom teeth surgery**”, the new osteocom course dedicated to the **latest** and **greatest** innovations in the field of **wisdom teeth extraction**.

By attending this learning experience, designed to provide you with a **complete set** of **theoretical** and **practical knowledge**, you will acquire the necessary skills to **confidently handle** even the **most complex** wisdom teeth extraction **clinical cases**.

Participants will receive a **timely update** on the newest **digital extraction planning protocols**, with the added bonus of a **professional tutorial** on the functioning of a **SW** for the construction of **3D models** of **anatomical structures**.

After that, a **wide-ranging overview** will be given on the use of **piezoelectric instruments** that **greatly facilitate** the traditional practices of **tooth luxation**, **sectioning**, **segmentation** and **expansion**.

Sign up today and make your wisdom teeth extraction practice **easier**, **less invasive** and **less painful** for your patients.

In particular, during this course, lecturers will speak about:

- The latest and **greatest technologies** that can enhance the **extractive protocol**
- **Technological-based** diagnostic procedures
- The benefits of adopting **piezoelectric devices**
- **Digital tools** in wisdom teeth extraction
- Management of complex cases
- The use of a **mixed approach**: manual and piezoelectric flap elevators
- How to reduce **complications**?
- **Guided tooth sectioning** and digital planning

- **Segmentation** and expansion
- **3D Slicer SW** tutorial

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

- Obtain a **3D model** from a CBCT
- Easily **visualize** the **position of the tooth** and the **nerve** thanks to virtual rendering procedures
- Properly perform **osteotomy** and **odontotomy**
- Manage in a **fast, safe** and **predictable** way every case of wisdom tooth extraction

Who the course is addressed to:

This video course is particularly recommended for **all dentists** due to the extremely frequent nature of wisdom tooth extraction cases that come to the attention of clinicians on a **daily basis**. Both **experts** and **youngsters** will find a timely and comprehensive update on the latest techniques and protocols

OK, but how does it work?

This is a **5-hour** video course divided into **4 theoretical lectures** and **8 clinical videos** that you can watch by accessing your course area from any device and download from the osteocom app available for iOS and Android.



Video Lectures:

Video Lecture 1 - Technological updates in wisdom teeth surgery (27min) by Dr. Jason Motta Jones

Description:

According to **Dr. Jason Motta Jones**, patients want a **minimally invasive, fast** and **harmless surgery** that also requires **low morbidity**; for this reason a **standardize, innovative and computer-guided protocol** will be presented and discussed in a step-by-step way.

Participants will have the opportunity to discover the **gold standard** for a **proper diagnosis** also analysing the **rationale** behind the decision between performing or not an **OPT** or a **CBCT scan**.

In the final part of the lecture, **antibiotics prescription** protocols will be deeply discussed, paying specific attention to the presence or the absence of **inflammations** and **immunological deficiencies**.

In particular, this lesson focuses on the following topics:

- The **diagnostic** gold standard
- **When** is a **CBCT** required?
- Digital approach advantages: **virtual rendering** and **3D model** construction
- Should we give our patients **antibiotics**?
- Manual flap elevators VS **piezoelectric flap elevators**

Video Lecture 2 - Ostectomy and Odontotomy: how piezoelectric devices can help us? (1h) by Dr. Jason Motta Jones

Description:

In this video lesson, **two fundamental steps** in the wisdom teeth extraction process will be analysed: **ostectomy** and **odontotomy**.

In particular, the focus of the lecture will be on the **advantages** of using **piezoelectric devices**. With regard to the ostectomy phase, these devices will allow **selective** and **micrometric cuts** as well as **cavitation effects**.

On the other hand, concerning the **odontotomy phase**, piezoelectric instruments allow perfect **root extractions** (even fractured ones), **dislocations**, **flap elevations** and **detachments** of the **periosteum**.

At the end of the lecture, participants will have the opportunity to observe Dr. Motta Jones perform a perfect **extraction** on a **pig jaw** using a **piezoelectric device**.

In particular, this lesson focuses on the following topics:

- How we can use piezoelectric instruments for **bone gathering**, bone **cutting** and bone **sectioning**
- **Magnetodynamic** technology features
- The utility of the **electric mallet** for tooth extraction and for the **evaluation of the fresh socket** walls' integrity
- **Luxation technique** with a piezoelectric device
- Understand the functioning of piezoelectric devices through the vision of **clinical videos on a pig jaw**

Video Lecture 3 - (23min) by Dr. Federico Guerri

Description:

Why should a dentist want to obtain a 3D reconstruction of the patient's anatomical structure?

In this video lecture, Dr. Guerri will explain that the 3D model is fundamental in those clinical cases in which the wisdom teeth has a complex anatomy and an intimate contact with the nerve.

Participants will understand that by creating the 3D model, the surgeon has the possibility to identify the risks of the surgery, with particular reference to nerve damages.

In particular, this lesson focuses on the following topics:

- 3D Slicer Software tutorial
- Tools and potentiality of the Software: CBCT, nerves and teeth segmentation
- How to clearly highlight the path of the nerve
- Multidisciplinary approach and auto-transplantation

Video Lecture 4 – Technological updates (50min) by Dr. Tommaso Ghedini

Description:

A correct diagnosis is the core of wisdom teeth treatments so, in this video lecture, Dr. Ghedini will show and discuss the latest digital tools that can help specialists during the diagnostic phase but also during the treatment itself.

Participants will discover how to prevent complications thanks to the use of a guide to section the tooth.

In particular, this lesson focuses on the following topics:

- What can we do to reduce complications?
- Tooth decay, pericorontitis, root resorption, periodontitis, infections and orthodontic problems preliminary evaluation
- How to reduce the treatment time thanks to the guided approach

Video Lecture 5 - A mixed approach: traditional and piezoelectric extraction protocol (22min)

Description:

This clinical video is useful to understand how one can begin to adopt an approach based on piezoelectric instruments for those who have always been used to adopting a traditional manual approach.

In fact, Dr. Motta Jones will adopt a mixed technique: manual and piezoelectric instruments to create a flap, gather and cut the bone and check the tooth's mobility.

In particular, this lesson focuses on the following topics:

- Full block and local **anesthetic protocol**
- **Intrasucular flap design** with a distal release incision
- How much bone have we to **gather**?
- Checking the **integrity of the root** and cleaning of the **cavity**

Video Lecture 6 - Extraction of a partially erupted 3.8 wisdom tooth (16min)

Description:

In this **clinical case**, participants will see how to **extract** a **partially erupted biradicular 3.8 wisdom tooth**.

At the beginning of the case, the clinician thought about the possibility of **sectioning the tooth in two parts** but once **opened the flap** and **checked its mobility**, this solution has been considered unnecessary.

In particular, this lesson focuses on the following topics:

- **Anesthetic fluid** administration
- **Intrasucular incision** and distal releasing incision
- How to correctly use the **extractive insert** of our **magneto-dynamic device**
- The removal of **follicular tissues** around the tooth
- How to enhance a **better periodontal healing** of the soft tissues

Video Lecture 7 - A 4.8 erupted wisdom tooth extraction (6min)

Description:

In this **brief clinical video**, Dr. Motta Jones will follow the **standard protocol** to perform an **extraction** of a **4.8 wisdom tooth** that has **completely erupted**.

After performing **local anesthesia**, he will **design** and **elevate the flap** in order to **avoid papilla lesions** and create the proper space for the **magneto-dynamic insert**. Then, participants will appreciate the **expansion** of the **cortical bone** to enhance the **mobility of the element**.

Video Lecture 8 - A 3.8 biradicular erupted wisdom tooth extraction (9min)

Description:

In this **clinical video**, the **extractive protocol** of a **biradicular wisdom tooth** will be presented to participants.

Dr. Motta Jones will explain that **he could have segmented** this element into **two monoradicular parts** but, thanks to **easiness of fractured roots extractions**, he will proceed with **no segmentation**.

Video Lecture 9 - Tooth sectioning and bone (16min)

Description:

In this case, to reach an **optimal outcome**, Dr. Motta Jones will perform a **flap elevation** by using a **piezoelectric device** to separate the **soft tissues from the bone**.

Once reached the correct elevation, he will proceed with **bone gathering** to ensure the correct space for tooth extraction.

Then, **tooth sectioning** and **luxation** will be executed because there were **massive frictions** between the lingual fragment of the wisdom tooth and the bony wall of the adjacent tooth.

Video Lecture 10 - Bone gathering and tooth sectioning of a 4.8 wisdom tooth (19min)

Description:

In this clinical video a **4.8 wisdom tooth extraction** will be presented and discussed in detail.

In particular, participants will understand how to use an **ultrasonic elevator** to obtain the separation of the soft tissues from the tooth with **no periosteal lesions**. **Bone gathering** and **partial tooth sectioning** will also be showed.

Video Lecture 11 - 4.8 wisdom tooth extraction with partial tooth sectioning (15min)

Description:

In this video lecture Dr. Motta Jones will explain that, because of the occurrence of **different inflammatory phases** that have caused massive adherence of the soft tissues on the tooth, he has to use **both manual and piezoelectric elevators** to deal with this **tricky clinical case**. Then, tooth extraction will be executed by adopting the **standard protocol** (bone **gathering** and bone **sectioning**).

Video Lecture 12 - A 3.8 partially erupted wisdom tooth extraction (25min)

Description:

In this **extractive clinical case**, Dr. Motta Jones will deal with a **3.8 partially erupted wisdom tooth** with two roots joined together in the apex.

Then, the extractive protocol will be presented in a **standardize way**, with particular attention to the **palpation** of the **mandibular ramus** to decide where to perform the **full block anesthesia** and to the **removal** of the **granulation tissue** that were in the pericoronal area of the tooth.



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course



Author's Biography:

A speaker at national congresses and courses on oral surgery topics, Dr. Jason Motta Jones is co-author of oral surgery texts and scientific publications in national and international journals. He is an Active Member and Founder of the Piezosurgery Academy as well as a Founding Member of A.I.S.O.D.

