

ORAL MEDICINE

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Oral Pathology

By Prof. Giovanni Lodi, Dr. Roberto Franchini and Dr. Alberto Pispero



SUMMARY



Topic:

The ambulatory treatment of patients with oral pathologies



Objectives:

- Recognize and diagnose the main lesions of the oral cavity
- Recognize cancerous lesions of the oral cavity and those at risk of malignant evolution
- Provide a complete treatment and support the oral health of your patients
- Accurately diagnose tumors of the oral cavity
- Independently manage the diagnostic and therapeutic process without needing the help of other professionals
- Perform oral lesions or benign malformations incisional biopsy
- Perform excisional biopsy of benign formations of the oral cavity
- Distinguish mild pathologies from malign tumors



About the author:

Prof. Giovanni Lodi obtained his PhD at the Department of Oral Medicine at the Eastman Dental Institute in London. He is Associate Professor at the University of Milan and Scientific Editor of the Dental Cadmos journal. He is also Editor of Oral Diseases, the most important international journal of oral medicine and pathology. He has written more than 200 articles on topics of oral pathology and special dentistry.

LEVELS

Difficulty ●●●
Theory ●●●●
Practice ●●●●

KEY INFO



English



ReLIVE + on demand



Oral Pathology



9 hours



10 Theory and 7 ReLIVE Surgery

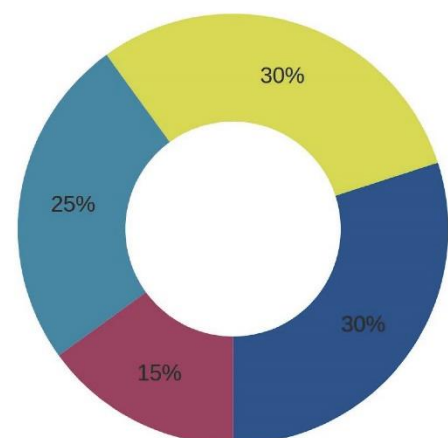


Surgery Yes



NO

SKILLS YOU WILL LEARN



- Different oral pathologies analysis
- Identify oral cavity cancers
- Perform oral lesions biopsies
- Early diagnosis protocols



Prof. Giovanni **Lodi** and Drs. Roberto **Franchini** and Alberto **Pispero** welcome you to “**Oral Pathology**”, a video course, made in partnership with **osteocom**, that aims to increase your knowledge about the **diagnosis** and management of various **oral pathologies**.

Mucosal lesions and other **oral cavity pathologies** management is very often delegated to specialists external to the dental clinic but by attending this comprehensive course you will be provided with all the information and **tips&tricks** to become a reliable source for your **patients’ general oral health**.

The course program includes the analysis of the **newest innovations** and practice methods for the prompt **identification of oral disease** potential risk factors and there will be an emphasis on detecting these **critical issues** as quickly as possible because participants will notice that an **early diagnosis** could save their patients’ lives.

Additionally, different **ReLIVE Surgeries** will be discussed, showing each disease's characteristics. Ultimately, upon completion of this course, the **whole dental team** will be able to independently deal with a vast range of problems that usually require consultation with **outside medical specialists**.

By attending this course, you will deepen your knowledge of:

- The fundamental role dentists play in **preventing** these diseases
- Strategies for **empowering your entire dental team** to identify oral cavity cancer in its early stages
- **Non-pathological** changes in the mouth
- The “**14 Days Rule**”: what the dentist should do in this period of time?
- **Mouth cancer**: who gets it, how it presents and how it’s diagnosed
- Gingival analysis
- The **papilloma virus**: oral mucosal infection and associated lesions
- **Oral lichen planus** and drug-induced osteonecrosis

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

- Recognize and diagnose the main **lesions of the oral cavity**
- **Recognize cancerous lesions** of the oral cavity and those at risk of malignant evolution
- Provide a complete treatment and **support the oral health** of your patients
- Accurately **diagnose tumors** of the oral cavity
- Independently manage the diagnostic and therapeutic process **without needing the help of other professionals**
- Perform oral lesions or benign malformations **incisional biopsy**

- Perform **excisional biopsy** of benign formations of the oral cavity
- **Distinguish mild pathologies** from malign tumors

Who the course is for?

The revision of this video course is particularly recommended to all dental specialists; the information provided by the lecturers **will be useful for the whole clinical team** - from the **hygienist** to **general dentists** - because **everyone can be involved** in the **early detection** of **lesions** and **oral pathologies**.

The course is composed by:

- **10 theoretical** video lectures
- **7 ReLIVE** Surgeries



Video Lectures:

Video Lecture 1 – Oral Pathology examination (33min) by Dr. Franchini

Description:

The main object of this first video lecture is to **highlight** the importance of bringing **oral medicine protocols in general dentistry** offices to start handling patients with **oral lesions** and **oral pathologies** properly, so as to avoid referring them to other professionals.

Dr. Franchini explains you that it is **mandatory to analyse** not only the oral cavity but also several **extraoral significant factors** such as **lymph nodes**.

In particular, this lesson covers the following topics:

- The importance of performing a **systemic** and **methodical examination**
- What is the **main goal** of an **oral examination**?
- How to **identify lesions** that could be **carcinomas**
- The proper **tongue palpation** protocol
- Which are the most **difficult areas to inspect**
- The **correct procedure** to examine and analyse the functionality aspects of **salivary glands**
- The **Virchow node**: an important **lymph node** to observe frequently

Video Lecture 2 - “The Fourteen Days” rule (36min) by Dr. Franchini

Description:

In this video lecture, Dr. Franchini shows the **proper path** that dentists should follow **when facing lesions** of the **oral mucosa**.

In particular, the specialist shows an **innovative protocol** named the “**14 Days Rule**” that is very useful for **diagnosing oral pathologies** without the help of other medical specialists.

The “14 Days Rule” says that if we find an oral lesion during a medical examination, we have to **recheck the patient again in two weeks**. If that lesion persists, it should be considered a **suspicious lesion** and a **biopsy** should be performed.

In particular, this lesson covers the following topics:

- The **fundamentals** of different **diagnosis**
- What to **do** and what to **say** to your patients when finding a **potentially pathological lesion**
- How to approach the 14 days of wait in an **active way** performing **anamnesis, literature researches** and **photo-discussions**
- How to determine if an **ulcer** is a **common**, a **traumatic** or a **neoplastic** one?
- Is the **lesion removable** or not?
- The difference between an **incisional** or an **excisional biopsy**

Video Lecture 3 - The risk factors for oral cancer and its occurrence nowadays (20min) by Prof. Lodi

Description:

In this video lecture, Prof. Lodi discusses the **risk factors** that a dentist should know to **early detect oral cancers**.

Particular attention is paid to the **relationship** between **cigarette smoke** and **oral cancer**, and a series of **tools to help patient quit smoking** is presented.

In the second part of this lecture, the specialist discusses the need to inform people that **oral cancer is not a rare disease** and that general dentists also have an increasing **need to keep updated on this important topic** due to the **increased number of diagnoses** in recent years.

In particular, this lesson covers the following topics:

- The **relationship** between **cigarette smoke** and the **incidence of cancer**, oral cancer and death rate
- The **negative role** of **passive smoking** in the development of oral cancers
- Other **risk factors** related to oral cancer (alcohol, inactivity, poor oral hygiene, poor diet)
- Potentially **malignant disorders**
- Why is oral cancer **not a rare disease**?

Video Lecture 4 - Mouth cancer: how to detect it (28min) by Prof. Lodi

Description:

In this video lecture, Prof. Lodi talks about the **different manifestations** of **mouth cancer**, paying specific attention to the **tools required** to properly **diagnose** them. Participants will see different types of **squamous cell carcinomas**, the most frequent **epithelium tumor** of the oral cavity.

Prof. Lodi discusses in detail the fact that **invisible oral cancers don't exist**, which means that it's always possible to early detect them.

In particular, this lesson covers the following topics:

- **Mouth cancers:** how do they **occur** and how to **diagnose** them?
- Which factors allow to perform a **quick, definitive diagnosis**
- Which are the **different treatment options** once the mouth tumor is detected?
- **More visible** vs. **less visible** mouth tumors manifestations

Video Lecture 5 - Oral mucosa: mirror of systemic health (34min) by Dr. Franchini

Description:

The oral cavity is part of the **systemic health spectrum** and often shows the very **first symptoms** of **systemic diseases**, including **potentially fatal** ones.

Dr. Franchini speaks about what a general dentist must **know, do** and **say** to their patients when they detect risk factors of oral cavity pathology.

Participants will discover that it's crucial to **examine** the **current** and **past anamnesis** of the patient, collaborate with **other professionals**, and **eliminate local irritating factors** by performing **pharmacological** and **periodontal therapies**.

In particular, this lesson covers the following topics:

- The elimination of **causative factors** by performing **periodontal treatments**
- **Inflammation, tissues necrosis** and **bleeding areas** analysis
- The importance of investigating the **current** and **past anamnesis** of the patient
- The effects of **different medications** and **drugs** on oral cavity health
- How to identify **desquamative gingivitis** and how to treat it

Video Lecture 6 - Incisional and excisional biopsies (44min) by Dr. Pispero

Description:

In this video lecture, Dr. Pispero addresses the **different surgical aspects** of oral pathologies and the indications to properly **perform incisional and excisional biopsy**, which represents a crucial phase of the diagnostic protocol.

Participants will be provided with all the information they need to correctly choose when to perform a biopsy how to perform it correctly.

In the second part of the lecture, Dr. Pispero explains the **different treatment options** that follow this stage of histological analysis of the lesion.

In particular, this lesson covers the following topics:

- When to perform an **incisional biopsy or an excisional one**: the rationale behind this choice
- Which are the information that the **mucosa offers us**?
- **How to perform** an incisional or excisional biopsy?
- When is it necessary to perform an incisional biopsy or another **histological examination**?

Video Lecture 7 - Leucoplakia: from early diagnosis to its treatment (44min) by Prof. Lodi

Description:

In this video lecture, Prof. Lodi speaks about an **oral mucosal abnormality** that is frequently associated with the risk of developing **mouth cancers: leucoplakia**. Participants will discover that this disease is often asymptomatic and that it can affect **any spot** of the oral cavity.

Prof. Lodi discusses **early diagnostic protocols** for leucoplakia and its **different treatment options**.

In particular, this lesson covers the following topics:

- Periodic **checks** and excisional **biopsies**
- Which **characteristics of the patient** may influence the probability to develop oral cancer?
- The analysis of the **localization, size** and **dysplasia** of the lesions
- Different treatment options: surgical **biopsies, systemic treatments** or simple **surveillance**
- The rationale behind the choice between **medical** or **surgical treatments**

Video Lecture 8 - Lichen Planus: all you need to know to manage this potentially malignant disorder (38min) by Prof. Lodi

Description:

In this presentation, Prof. Lodi talks about **oral lichen planus**, a rather common condition whose consequences for the patient's **general health** are often underestimated.

Participants will notice that the **diagnosis of oral lichen planus** can be challenging, as this disorder may appear in **very different ways**. The goal of this video lecture is to provide participants with all the **necessary information** to be able to **early spot and treat this malignant disorder**.

In particular, this lesson covers the following topics:

- The different forms of the lichen planus: **atrophic, papular, ulcer** and **bubble** form
- Clinical and histological **diagnosis**
- What you should **say to your patients** when spotting oral lichen planus
- The analysis of the symptoms of oral lichen planus

Video Lecture 9 - Maxillary bones osteonecrosis (54min) by Dr. Pispero

Description:

In this video lecture, Dr. Pispero highlights the importance of understanding the **pharmacological** and **medical history** of our patients to avoid the risk of **maxillary bones osteonecrosis**.

Particular attention is paid to the negative role of **bisphosphonate** on the development of osteonecrosis.

Dr. Pispero explains how to manage patients with maxillary bones osteonecrosis with a **comprehensive treatment plan** that respects the patient's **overall quality of life**.

In particular, this lesson covers the following topics:

- Analysis of **drugs** that may cause **osteonecrosis** of the maxillary bones
- The use of **chlorhexidine** and **antibiotics** to prevent bone infection
- **Anamnestic data** collection and complete intraoral examination
- **Infection control** and the proper **follow-up** protocol

Video Lecture 10 - Human Papillomavirus (HPV) (22min) by Prof. Lodi

Description:

Papillomavirus infection is a very **feared** and **discussed** oral pathology.

Prof. Lodi leads participants in an **in-depth analysis** of this large **family of viruses** that can manifest with different kinds of **lesions** and in different **sizes**.

The specialist **debunks several clichés** about this infection by explaining that HPVs have **no malignant potential** and have a small role in **cancer development**.

In particular, this lesson covers the following topics:

- How can the infection **manifest itself** in the oral cavity?
- The relation between **HPV and cancer**
- **Modalities** of **transmission** of HPV lesions
- Sexual transmission of **oral HPV infection** among men

Video Lecture 11 - ReLIVE Surgery - Excisional biopsy (10min) by Dr. Pispero

Description:

In this first ReLIVE Surgery, Dr. Pispero shows an **excisional biopsy** of a **pseudofibroma** on the lower lip.

Special attention is paid to **the removal** of this **small traumatic lesion** and to the management of the soft tissues of the lip.

In particular, this ReLIVE Surgery covers the following topics:

- **Anesthetic** protocol
- How to **stretch the lesion** with a thread
- **Excisional biopsy** protocol
- The **exposure** of **the mucosa** under the lesion
- **Follow-up** to verify the quality of soft tissues healing

Video Lecture 12 - ReLIVE Surgery - Excisional biopsy of a giant cell granuloma (17min) by Dr. Pispero

Description:

In this second ReLIVE Surgery, Dr. Pispero performs an **excisional biopsy** of an extravasation **cyst** also known as mucocele.

Even if the lesion is very small, it should not be **underestimated** but always taken out and analysed.

In particular, this lesson covers the following topics:

- Control of the **lower lip** functionality and aesthetic
- How to identify **the limits of the lesion**
- Why remove this small and probably **benignant lesion**?
- **Anaesthetics infiltration** procedure in the soft tissues of the lip
- Analysis of the **lesion**

Video Lecture 13 - ReLIVE Surgery - Lipoma management (13min) by Dr. Pispero

Description:

Lipoma is a lesion that can occur in **all body areas**.

It's simple to distinguish it in the **oral cavity** because of its **yellow colour**.

Lipoma is a **benignant lesion** that becomes **pathological** when it reaches a volume that can cause **discomfort** during **chewing** or induce a trauma during intercuspation. Fortunately, it can be easily managed in the dental practice.

In particular, this lesson covers the following topics:

- **Lipoma texture** characteristics
- **Where** may lipoma occur?
- How to pull out the **entire body** of the lesion?

Video Lecture 14 - ReLIVE Surgery - White lesion incisional biopsy (15min) by Prof. Lodi and Dr. Pispero

Description:

This ReLIVE Surgery shows **an incisional biopsy** of a **white lesion** of unspecified origin in the oral cavity.

Unlike previous **ReLIVE Surgeries**, in which the entire lesions were extracted, the protocol of an **incisional biopsy**, i.e. the taking of **a small sample** of the lesion, is now shown.

In particular, this lesson covers the following topics:

- Lesion sample **harvesting**
- The use of **mucosal punch scalpels**
- Which quantity of **soft tissue** do we have to **harvest** to be able to perform a diagnosis?
- How to properly handle a **bioptic sample**
- Suture protocol and **case finalization**

Video Lecture 15 - ReLIVE Surgery - Incisional biopsy of a white lesion in the lingual margin (23min) by Prof. Lodi and Dr. Pispero**Description:**

In this **ReLIVE Surgery**, Prof. Lodi and Dr. Pispero will describe the performance of **multiple incisional biopsies** at the level of the lingual margin of a patient with a severe **leucoplakia**.

The specialists show the necessary **precautions** for the management of the **lining tissues** of the lingual body, the need to **reduce lingual muscle movements** during the operative phases, and the importance of identifying the correct sampling depth.

Video Lecture 16 - Giant cell granuloma treatment (27min)**Description:**

This ReLIVE Surgery shows the treatment of a **giant cell granuloma**, a lesion of **vascular nature** that also involves the **bone base**.

In the course of this intervention, **cautery instruments** will be used.

Video Lecture 17 – Osteonecrosis management**Description:**

This ReLIVE Surgery presents a case of a **drug-induced mandibular bone necrosis**. The patient had been treating **severe osteoporosis** for several years with drugs and following a **tooth extraction** a large area of necrosis appeared.

The ReLIVE Surgery allows a full description of the surgical steps necessary to remove the necrosis.



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Authors Bio:

Prof. Giovanni Lodi:

Prof. Giovanni Lodi obtained his PhD at the Department of Oral Medicine at the Eastman Dental Institute in London.

Editor of Oral Diseases, the most important international journal of oral medicine and pathology, he has written more than 200 articles on the topics of oral pathology and special dentistry.

Dr. Roberto Franchini:

Since 2003 Dr. Roberto Franchini has been attending the ambulatory clinic of Oral Pathology and Medicine at the San Paolo Hospital in Milan. He started a research project on tumors and potentially malignant disorders of the mouth.

Dr. Alberto Pispero:

Dr. Alberto Pispero obtained his PhD in Odontostomatological Sciences in 2019. He is the founder, with Prof. Giovanni Lodi and Dr. Roberto Franchini, of the non-profit organisation ACAPO that aims to fight against oral cancer and oral pathologies.

