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Nota di contenuto	Foreword; Editors and authors; Dedication; Introduction: a short history of local anesthesia; Pain and impulse conduction 1; 1.1 Pain receptors; 1.2 Nerve impulse transmission; 1.2.1 The structure of the peripheral nerve; 1.2.2 Impulse formation; 1.2.3 Impulse conduction and transfer; 1.2.4 Modulation of the impulse; 1.3 Perception of pain; 1.4 Nociception in the orofacial area; 2 Anatomy of the trigeminal nerve; 2.1 Introduction; 2.2 The central part of the trigeminal nerve; 2.2.1 Origin; 2.2.2 Trigeminal nuclei; 2.3 The peripheral part of the trigeminal nerve; 2.3.1 Ophthalmic nerve 2.3.2 Maxillary nerve 2.3.3 Mandibular nerve; 2.4 Deep areas; 2.4.1 Pterygopalatine fossa; 2.4.2 Infratemporal fossa and pterygomandibular space; Pharmacology of local anesthetics 3; 3.1 Classification; 3.2 Pharmacodynamics; 3.3 Pharmacokinetics; 3.3.1 Physical-chemical characteristics; 3.3.2 Diffusion; 3.3.3 Mode of action of local anesthetics; 3.3.4 Protein binding; 3.3.5 Onset time and duration of action; 3.3.6 Local elimination; 3.3.7 Systemic elimination; 3.4 Additives to local anesthetics; 3.4.1 Vasoconstrictors; 3.4.2

Preservatives; 3.5 Additives to topical anaesthetics

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8.3.5 Microprocessor-controlled anesthesia

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## Sommario/riassunto

Local Anesthesia in Dentistry is a practical guide for both students and general practitioners to this essential area of clinical practice. Highly illustrated in full colour throughout, the book provides clear and practical guidance to the administration of local anaesthesia. The book introduces the reader to the concept of nerve conduction and pain as well as providing an explanation of the anatomy of the trigeminal nerve. Further chapters cover such key areas of practice as regional anaesthesia, local anaesthesia in children, pharmacology, local and systemic complications, general

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