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1- DENTISTRY I-Title

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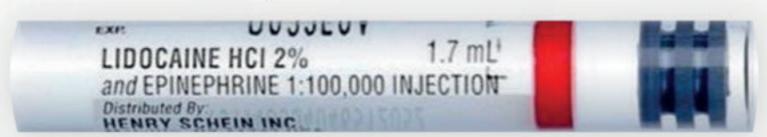
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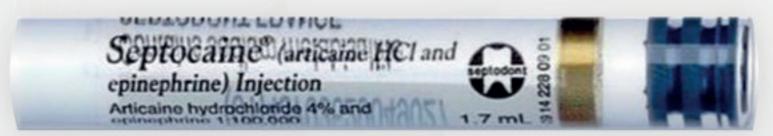
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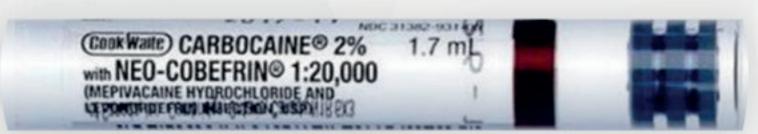
Lidocaine: xylocaine



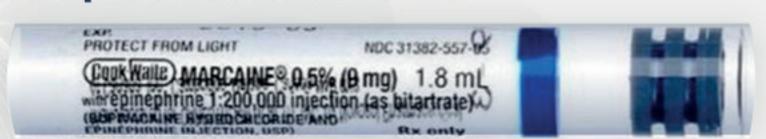
Articaine: septocaine



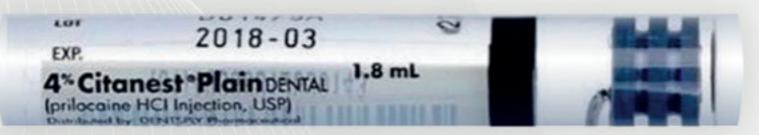
Mepivacaine: carbocaine



Bupivacaine: marcaine



Prilocaine: citanest





Lidocaine

2% Lidocaine with 1:100,000 epi

Most commonly used anesthesia for intraoral injections, good efficacy.

Good for maxillary infiltration, nerve blocks, PDL, etc.

Safe for use during pregnancy.



Articaine

4% Articaine w/ 1:100,000 epi

Great ability to diffuse which makes it more optimal for mandibular infiltrationst.

Can be used for Inferior Alveolar.

Nerve Block (IANB) although some research suggests the potential for increased risk of paresthesia.



Mepivacaine

3% Mepivacaine Plain

Good for injection around an abscess due to its higher pH.

Best anesthesia for patients with heart conditions where limited epinephrine is recommended.



Bupivacaine

0.5% Bupivicaine w/ 1:200,000 epi

Great for use before or after extractions & other surgery to help with post op pain management due to its long duration.



Lidocaine 2% 1:100,000 epi

Brand Name **Xylocane**

Pupal Duration **60min**

Soft Tissue Duration 180-300min

Max Dose In 70kg Person
11 Carpules *based On Epi

Special Info
Go-to "Safe" Anesthetic



Articaine 4% 1:100,000 epi

Brand Name septocaine

Pupal Duration 60-75 Min

Soft Tissue Duration 180-300min

Max Dose In 70kg Person **7 Carpules**

Special Info

Perfuses Through Bone



Mepivacaine 2% 1:20,000 levonordephrin

Brand Name carbocaine

Pupal Duration **60min**

Soft Tissue Duration 180-300 Min

Max Dose In 70kg Person

11 Carpules

Special Info
Pts With Cardiac Issues



Mepivacaine 3%

Plain (no epi)

Brand Name Carbocaine

Pupal Duration 5-10min

Soft Tissue Duration 30-45min

Max Dose In 70kg Person

7.5 Carpules

Special Info Short Lasting



Prilocaine 4% Plain (no epi)

Brand Name Citanest

Pupal Duration Infil 10 - 15 Min Block 40-60 Min

Soft Tissue Duration Infil 60 - 120 Min Block 120-240 Min

Max Dose In 70kg Person **8.3 Carpules**

Special Info

Short Lasting

Prilocaine with felypressin could be a good choice for patients who have contraindication to the use of lidocaine with adrenaline



Bupivacaine 5%

1:200,000 epi

Brand Name Marcaine

Pupal Duration >90min

Soft Tissue Duration 240-720min

70KG CARDIAC

Max Dose In 70kg Person

10 Carpules

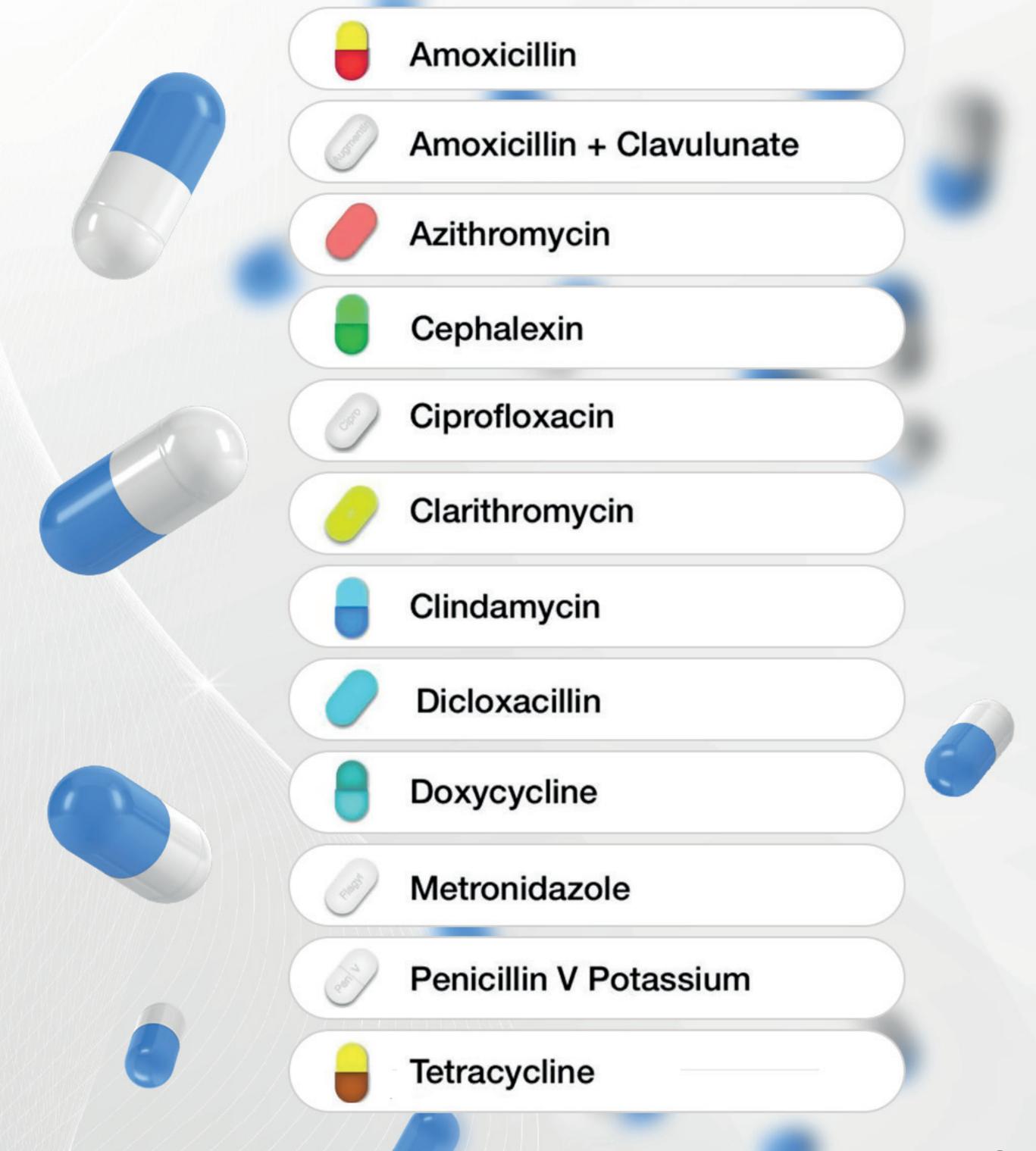
Special Info Long Lasting

MAXIMUM DOSE OF VASOCONSTRICTOR

	PATIENT	PATIENT
EPINEPHRINE 1:50.000	5.5 CARPS	AVOID
EPINEPHRINE 1:100,000	11 CARPS	2 CARPS
EPINEPHRINE 1:200,000	11 CARPS	4 CARPS
LEVONORDEPHRINE1:20.000	11 CARPS	2 CARPS

70KG

ANTIBIOTICS



ANTIBIOTICS

AMOXICILLIN



500

250mg, 500mg, 875mg

INDICATIONS

Dental infections, dental abscess, porphylaxis

EXAMPLE PRESCRIPTION

250mg 3 times a day for 5 to 7 days 500mg 3 times a day for 5 to 7 days 875mg 2 times a day for 5 to 7 days

Max dose: 40 mg/kg/day

Not to be prescribed in case of penicillin allergy. Alternatives in case of penicillin allergy: Clindamycin, Clarithromycin

AMOXICILLIN CLAVULANATE

TABS

250/125mg, 500/125mg, 875/125mg

INDICATIONS

Dental infections, dental abscess, porphylaxis

EXAMPLE PRESCRIPTION

250/125mg 3 times a day for 5 to 7 days 500/125mg 3 times a day for 5 to 7 days 875/125mg 2 times a day for 5 to 7 days

Max dose: 40 mg/kg/day

Not to be prescribed in case of penicillin allergy.

AZITHROMYCIN

TABS

250mg, 500mg, 600mg

INDICATIONS

Dental infections, dental abscess, sinusitis

EXAMPLE PRESCRIPTION

250mg take 2 tablets in day 1, then 1 tablet days 2 to 5 500mg 1 time a day for 3 days 600mg 1 time a day for 3 days (rarely used in dentistry)

Avoid in patients with cardiac problems or arrhythmias (May cause QT prolongation)

CEPHALEXIN

TABS

250mg, 500mg

INDICATIONS

Dental infections, dental abscess, prophylaxis, sinus communications

EXAMPLE PRESCRIPTION

250mg 4 times a day every 6 hours for 7 days 500mg 4 times a day every 6 hours for 7 days

Max dose: 4 g/24 hours

Contraindicated in patients with known allergy to the cephalosporins.

10 - 25% chance of cross reactivity with penicillins





DIGITAL GUIDE FOR ANTIBIOTICS

500

CIPROFLOXACIN

TABS

250mg, 500mg, 750mg

INDICATIONS

Dental infections, dental abscess, prophylaxis

EXAMPLE PRESCRIPTION

250mg 2 times a day for 7 days 500mg 2 times a day for 7 days 750mg 2 times a day for 7 days

Max dose: 40 mg/kg/day

May cause GI upset or GI symptoms, headache, restlesness, and rash.

Can increase the effects or toxicity of theophylline, warfarine, tizanidine, and cyclosporine. If patient is on antacids, defer antacids until 2-4 hours after ciprofloxacin dose. Can increase the risk of tendon tearing, avoid to prescribe for athletics

CLINDAMYCIN

TABS

75mg, 150mg, 300mg

INDICATIONS

Dental infections, dental abscess, prophylaxis

EXAMPLE PRESCRIPTION

75mg 4 times a day for 7 days 150mg 4 times a day for 7 days 300mg 3 times a day for 7 days Dose can range from 150 to 450 mg/dose every 6-8 hr for 7-10 days.

Max dose: 1.8g/24 hr.

Caution: higher risk of pseudomembraneous colitis

CLARITHROMYCIN

TABS

250mg, 500mg

INDICATIONS

Dental infections, dental abscess, prophylaxis

EXAMPLE PRESCRIPTION

250mg 2 times a day for 7 days 500mg 2 times a day for 7 days

Max dose: 1000mg/24 hours

Avoid in patients with known allergy to Clarithromycin.

Avoid in patients with cardiac problems or arrhythmias (QT prolongation)

DICLOXACILLIN

TABS

ö

GG855

250mg, 500mg

INDICATIONS

Dental infections, dental abscess, prophylaxis

EXAMPLE PRESCRIPTION

250mg 4 times a day for 7 days 500mg 4 times a day for 7 days 125-500mg/dose every 6 hr.

Max dose: 4g/24 hours

Contraindicated in patients who have shown penicillin allergy

ANTIBIOTICS

Westward

3142

DOXYCYCLINE

TABS

50mg, 100mg

INDICATIONS

Dental Infections, dental abscess, prophylaxis, post operative periodontal procedures.

EXAMPLE PRESCRIPTION

50mg 2 times per day for 7 days 100mg 2 capsules day 1 then 1 capsule once per day for 7 days

Not to be prescribed in case of Tetracycline allergy 100mg can be prescribed as a prophylaxis after a ridge augmentation or bone graft procedures

METRONIDAZOLE

TABS

250mg, 500mg

INDICATIONS

Dental Infections, dental abscess, prophylaxis, Acute oral infection (anaerobes), periodontal disease.

EXAMPLE PRESCRIPTION

250mg 4 times a day for 7 days 500mg 3 times a day for 7 days

Max dose: 40 mg/kg/day

It can be taken in conjunction with Amoxicillin to target anaerobes

PWK. 5

PENICILLIN V POTASSIUM Penicillin-VK

TABS

250mg, 500mg

INDICATIONS

Dental infections, dental abscess, porphylaxis

EXAMPLE PRESCRIPTION

250mg 4 times a day for 7 days 500mg 4 times a day for 7 days

Max dose: 3g/24 hours

Can be prescribed either as 3 or 4 times/day Not to be prescribed in case of penicillin allergy

TETRACYCLINE

TABS

250mg, 500mg

INDICATIONS

Dental infections, dental abscess, porphylaxis

EXAMPLE PRESCRIPTION

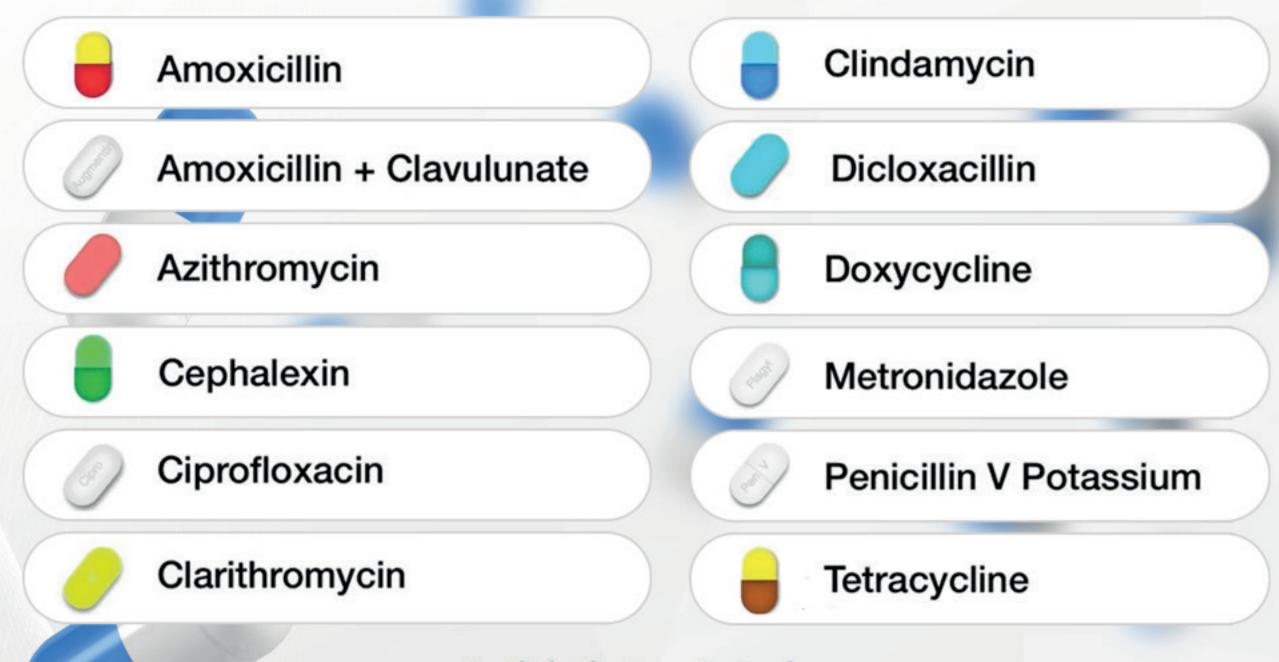
250mg 3 times per day for 14 days 500mg 2 times per day for 14 days 1-2 g/24 hours every 6-12hr.

Max dose: 3g/24 hours

Contraindicated in patients who have shown tetracycline allergy and pregnant women



ANTIBIOTICS



Antibiotic Prophylaxis

Single dose 30-60 minutes before procedures

Situation	Agent	Adults	Children
Oral	Amoxicillin	2 g	50 mg/kg
Unable to take oral medication	Ampicillin	2 g IM or IV	50 mg/kg IM or IV
	OR cefazolin or ceftriaxone	1 g IM or IV	50 mg/kg IM or IV
Allergic to penicillin or ampicillin—oral	Cephalexin*	2 g	50 mg/kg
OR azith clari	OR azithromycin or clarithromycin	500 mg	15 mg/kg <45 kg, 4.4mg/kg >45 kg, 100 mg
Allergic to penicillin or ampicillin and unable to take oral medication	Cefazolin or ceftriaxone†	1 g IM or IV	50 mg/kg IM or IV

ETCHING TECHNIQUES

FOR RESTORATIVE DENTISTRY

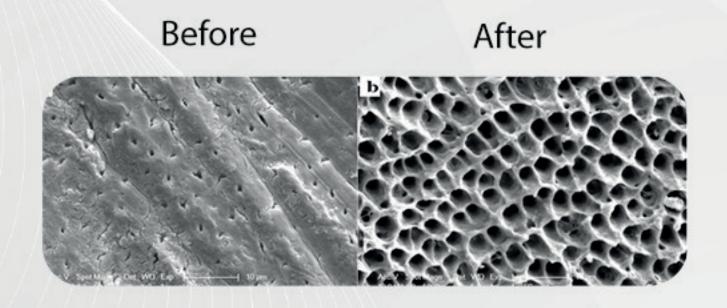
What is Acid etching in dentistry?

Phosphoric acid is commercially available in concentrations between **30%** and **40%**, with **37%** being the most common

Used to remove the smear layer present after tooth preparation which create rough surface microscopically, increasing retention of restorative materials. It opens the dentinal tubules to allow for better adhesion between the tooth and restorative materials.



Removal of Smear Layer on Dentin Tubules



ETCHING TECHNIQUES

FOR RESTORATIVE DENTISTRY

Total Etch

Technique:

Phosphoric acid (etch) applied to entire preparation of tooth including enamel and dentinTooth is thoroughly rinsed and dried.

Enamel requires ~25 seconds of exposure to etch.

Dentin should not be exposed to etch for >15 seconds.



Over-etching dentin results in postoperative sensitivity as well as decrease in bond strength.





Selective Etch Aka Hybrid Etch

Technique:

Phosphoric acid etch is selectively placed on enamel only for ~25 seconds.

Tooth is thoroughly rinsed and dried.

Considerations:

Etching enamel has been shown to seldom produce postoperative tooth sensitivity Etch and rinse then adhesive to enamel is shown to have increased bond strength.





ETCHING TECHNIQUES

FOR RESTORATIVE DENTISTRY

Self-Etch Technique:







Self etching bond/primer placed and rubbed in for ~15 sec then air dried and cured.

Considerations:

Shown to produce minimal to no sensitivity Easier technique, less steps.





Considerations

Self-etch and selective-etch are shown to produce less postoperative tooth sensitivity Self etch is less technique sensitive.

Total-etch may cause more postoperative sensitivity if not done properly.

Selective etching combines the best of both the total etch technique and the self etching systems.

Selective Etch

Self-Etch

Dental Adhesives History

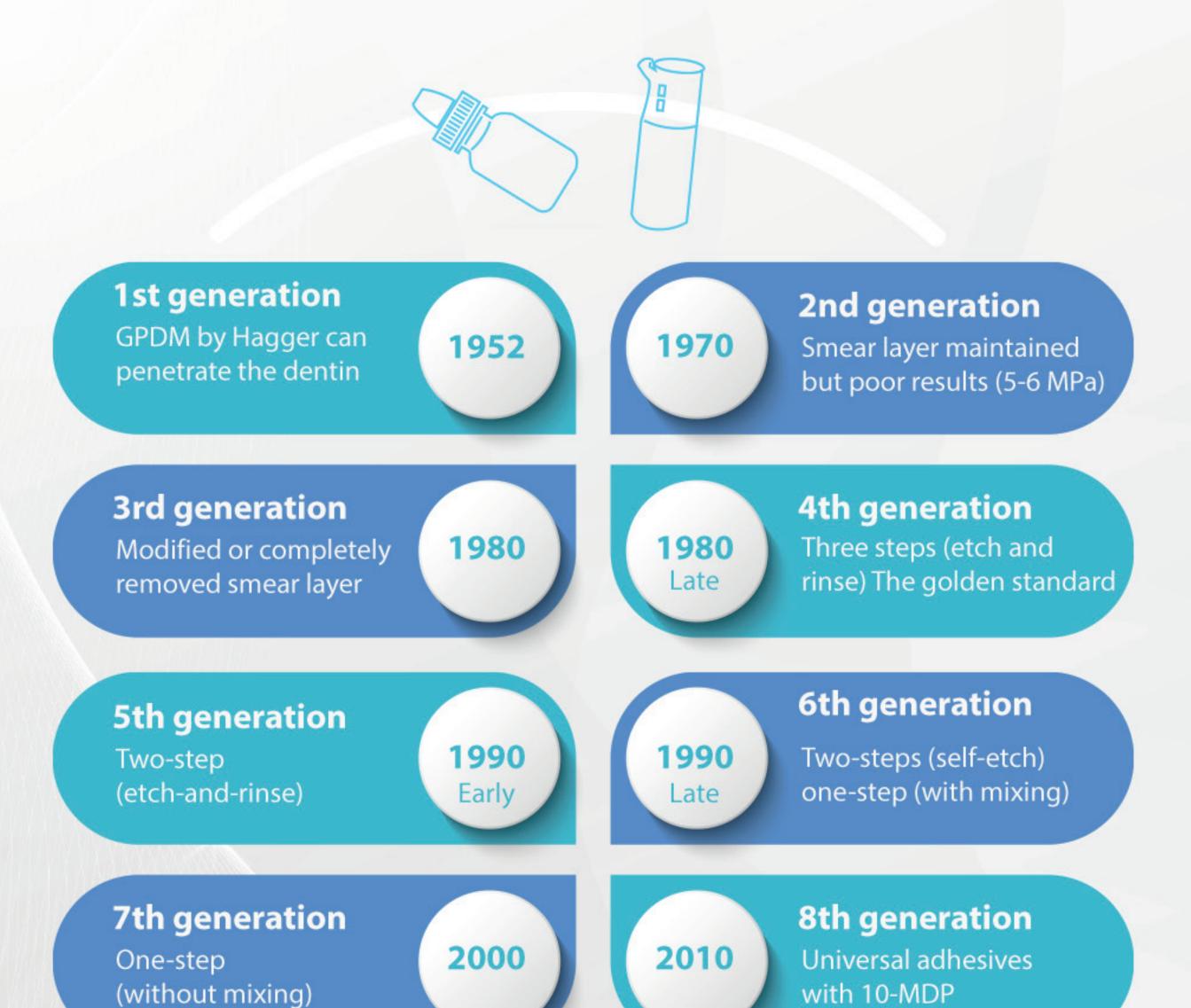


1873	Thomas Fletcher introduced the first tooth-colored filling material, silicate cement
1904	Steenbock introduced an improved version

1940s	Otto Röhm developed the first acrylic resins
1948	The first dental acrylic resin product was introduced (better
	color stability but significant shrinkage, limited stiffness, and poor adhesion)
1951	Oscar Hagger developed the first dimethacrylate molecule (cross-polymerized matrix)
N/M	
1955	Michael Buonocore published a milestone article that described a simple method of increasing the adhesion of acrylic fillings to enamel
	o o o o o o o o o o o o o o o o o o o
	Day Dayyan and others dayalanad a large malesule by dre
1962	Ray Bowen and others developed a large-molecule, hydro- phobic dimethacrylate monomer (Bis-GMA) which forms the basis of present-day composite resins because of limited shrinkage and fracture resistance
1964	The production of first dental product with more
	durable and color-stable dimethacrylate

1969	first use of Bis-GMA in dental composite

Dental Adhesives



Dental Adhesives 4th generation

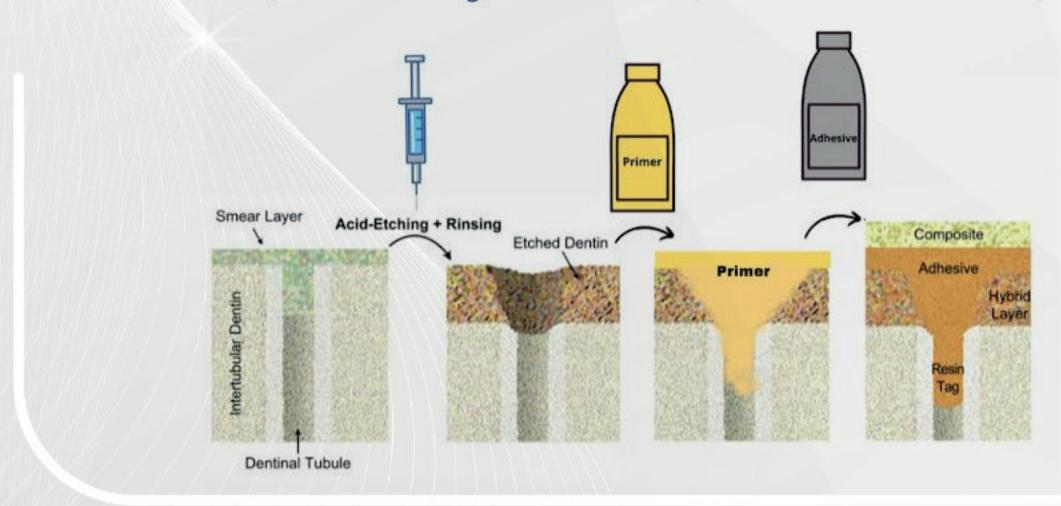
The golden standard dentin bonding protocol (3 steps)

The application of acid 35-37.5% for 10-15 seconds (STEP 1) has the primary goal of removing the smear layer accompanied by the dissolution of the mineral surface of dentin and exposure of the collagen fibers, which result in increased tubule openings, allowing for the output of dentinal fluid.

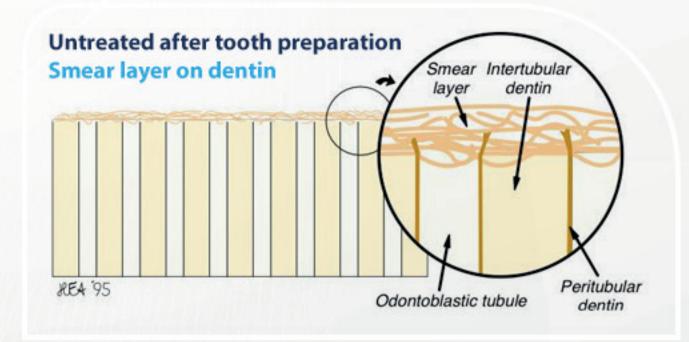
Then, the primer is applied to the dentin surface (STEP 2) for which an ethanol/water-based solvent is used as a carrier for the monomer. The primer consists of bifunctional monomers (hydrophilic molecules and a hydrophobic part.

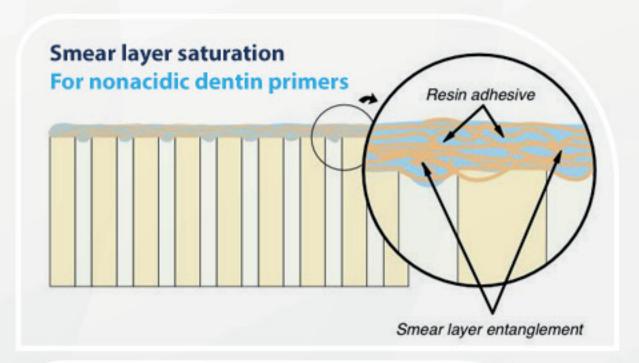
Then, application of the adhesive resin in the conditioned primed dentin (STEP 3), the adhesive fills the interspaces of the exposed collagen fiber network, penetrating the dentinal tubules, forming extensions or resin tags. Light scrubbing motion for 15 seconds is required. Gentle air blow or a dry brush is used to remove excesses and then is light-curing is done (hybrid layer by Nakabayashi et al in 1982)

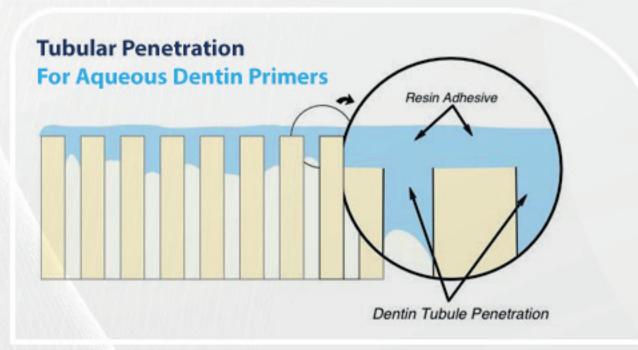
4th generation adhesives are the first ones able to fully develop the fundamentals mechanisms of adhesion (surface wetting, microretention, and chemical interaction).

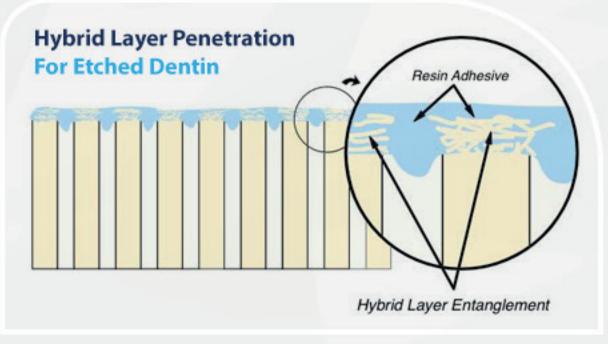


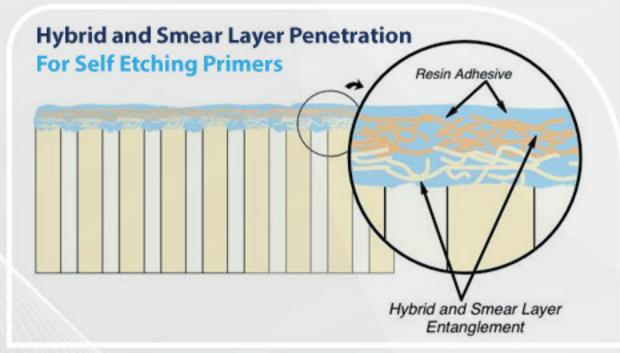
Dental Adhesives

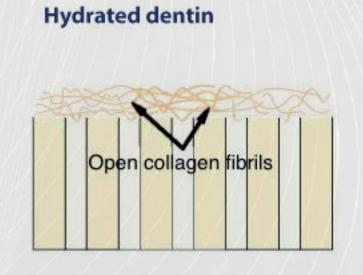




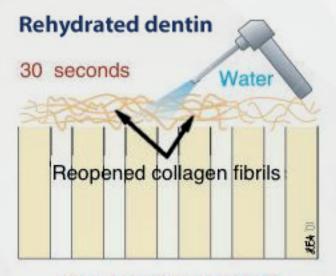












Bond strength restored





- Nonsteroidal anti-inflammatory drugs (NSAIDs) have been shown to be more effective at reducing pain than opioid analgesics, and are therefore recommended as the first-line therapy for acute pain management.
- · pain that lasts longer than 3 months is considered to be chronic.

Table 1. Examples of Anticipated Postprocedural Pain Levels According to Dental Intervention 16

Intervention	Anticipated Postprocedural Pain
Frenectomy	
Gingivectomy	
Routine Endodontics	Mild
Scaling/root planing	
Simple extraction	
Subgingival restorative procedures	
Implant surgery	
Quadrant periodontal flap surgery with bony recontouring Surgical endodontics Surgical extraction	Moderate
Complex implant Partial or full bony impaction surgery Periodontal surgery	Severe

Nonopioid analgesics-mild to moderate pain

1. Nonsteroidal anti-inflammatory drugs (NSAIDs)

- in general, inhibit cyclooxygenase (COX), an enzyme involved in the conversion of arachidonic acid to prostaglandins, which are mediators of inflammation, fever, and pain
- act peripherally, meaning they help with pain by reducing inflammation at the site where it is occurring.



Ibuprofen

TABS

400 mg, 600 mg, 800 mg

INDICATIONS

moderate to sever pain & Anti-inflammatory

EXAMPLE PRESCRIPTION

400mg every 4 hours 600mg every 6 hours 800mg every 8 hours

Max dose: 3.2g/24 hours

Can be prescribed either as 3 or 4 times/day

- Do not combine with any NSAIDs.
- Contraindicated to patients with aspirin intolerance/allergy.
- All NSAIDS has possible risks of stomach problems like bleeding, ulcer and stomach upset.
- Use with caution in patients taking Albuterol,
 NSAIDs can precipitate in asthmatic attacks.



Naproxen

TABS

220 mg, 500 mg

INDICATIONS

Mild to moderate pain & Anti-inflammatory

EXAMPLE PRESCRIPTION

220mg take 2 tablets for the 1st dose, then 1 tablet every 8 - 12 hours 500 mg every 12 hours

Max dose: 1250 mg/24 hours

- Do not combine with any NSAIDs.
 Contraindicated to patients with aspirin intolerance/allergy.
- All NSAIDS has possible risks of stomach problems like bleeding, ulcer and stomach upset.
- Use with caution in patients taking Albuterol,
 NSAIDs can precipitate in asthmatic attacks.

Nonopioid analgesics-mild to moderate pain



Celecoxib

Sulfa-Drug

TABS

100 mg, 200 mg, 400 mg

INDICATIONS

Mild to moderate pain

EXAMPLE PRESCRIPTION

100mg & 200 mg take 2 tablets for the 1st dose, then 1 tablet every 12 hours 400 mg every 12 hours

Max dose: 800 mg/24 hours Elderly 400 mg/24 hours.

- Contraindicated to patients allergic to sulfadrug.
- Prolonged use may increase cardiovasular events.
- Avoid for patient who had recent strokes.



Aspirin

TABS

325 mg, 500 mg

INDICATIONS

Mild to moderate pain, Anti-inflammatory

EXAMPLE PRESCRIPTION

325mg take 2-3 tablets every 4-6 hours 500mg take 1-2 tablets every 4-6 hours

Max dose: 4 g/24 hours

- Do not combine with any NSAIDs.
- Contraindicated to patients with aspirin intolerance/allergy.
- All NSAIDS has possible risks of stomach problems like bleeding, ulcer and stomach upset.
- Use with caution in patients taking Albuterol,
 NSAIDs can precipitate in asthmatic attacks.

Nonopioid analgesics-mild to moderate pain

2. acetaminophen

- some evidence suggest it involves the inhibition of prostaglandin synthesis in the central nervous system.
- acts centrally by blocking the transmission of pain signaling within the central nervous system.

Acetaminophen

TABS

500 mg

INDICATIONS

Mild to moderate pain

EXAMPLE PRESCRIPTION

500mg 1 tablet every 4 to 6 hours as needed for pain

Max dose: 3 g/24 hours

Do not give more than 5 doses/24 hours Most common recommendations for healthy

patients are 500 mg & 650 mg q4-6 hours. Max effective dose: 650 mg(or maximum single dose >

dose beyond this won't produce effect).

Should not be combined with any other medication containing Acetaminophen. Patients with liver problems are at increased risk of hepatotoxicity



Due to these differing mechanisms of action, taking NSAIDs and acetaminophen in combination has been shown to be highly effective in reducing mild to moderate pain, as the pain is being blocked at both ends of the nociceptive pathway

Table 2. Analgesic Use According to Pain Level?

Anticipated Pain Level	Oral Analgesic Options
Mild	Ibuprofen 200-400 mg as needed for pain every 4 to 6 hours
Mild to Moderate	Ibuprofen 400 to 600 mg fixed interval every 6 hours for 24 hours then Ibuprofen 400 mg as needed for pain every 4 to 6 hours
Moderate to Severe	Ibuprofen 400 to 600 mg plus acetaminophen 500 mg fixed interval every 6 hours for 24 hours then Ibuprofen 400 mg plus acetaminophen 500 mg as needed for pain every 6 hours
Severe	Ibuprofen 400 to 600 mg plus acetaminophen 650 mg with hy drocodone 10 mg fixed interval every 6 hours for 24 to 48 hours then Ibuprofen 400 to 600 mg plus acetaminophen 500 mg as needed for pain every 6 hours

Opioid analgesics -moderate to severe

- These drugs are often prescribed as formulations that are combined with acetaminophen or aspirin
- Opioids act as agonists at opioid receptors, and alter the nervous system's response to painful stimuli. They can be full agonists, partial agonists, or they can be mixed agonist/antagonists
- Common adverse effects associated with opioids include sedation, dizziness, nausea, vomiting, pruritus, sweating, constipation, and respiratory depression

Antibiotics

Pediatric Dentistry

Amoxicillin

Common Form (Suspension)





20 - 40 mg/kg/day

Indications: Dental infection/abscess, prophylaxis

Available in 1 strength only 125 mg/5ml

Dose 125 mg/5ml

Disp 150 ml

Instructions

Take 1 teaspoon (5ml) every 8 hours for 10 days This is an example prescription for a 3 yr old child weighing

12 kg (25 lb) with dental abscess.

Precautions: Not to be prescribed in case of penicillin allergy

Augmentin



Common Form (Suspension)





20 - 40 mg/kg/day

Indications: Dental infection/abscess, prophylaxis

Available in 1 strength only 125 mg/5ml

Dose 125 mg/5ml

Disp 150 ml

Instructions

Take 1 teaspoon (5ml) every 8 hours for 10 days This is an example prescription for a 3 yr old child weighing 12 kg (25 I) with dental abscess.

Precautions: Not to be prescribed in case of penicillin allergy

Cephalexin







25 - 50 mg/kg/day

Indications: Dental infection/abscess, prophylaxis

Available in 1 strength only 125 mg/5ml

Dose 125 mg/5ml

Instructions

Take 1 teaspoon (5ml) every 8 hours for 10 days This is an example prescription for a 3 yr old child weighing 12 kg (25 lb) with dental abscess.

Precautions: Contraindicated in patients with known allergy to the cephalosporins. Disp 200 ml 10 - 25% chance of cross reactivity with penicillins

Clindamycin (Cleocin)







8-25 mg/kg/day

Indications: Dental infection/abscess, prophylaxis Instructions

Available in 1 strength only 75 mg/5ml

Dose 75 mg/5ml

Disp 200 ml

Take 1 teaspoon (5ml) every 8 hours for 10 days This is an example prescription for a 3 yr old child weighing 12 kg (25 lb) with dental abscess.

Precautions: Higher risk of pseudomembraneous colitis

Metronidazole (Flagy)







30 mg/kg/day

Indications: Dental infection/abscess, prophylaxis

Available in 1 strength only 250 mg/5ml

Dose 250 mg/5ml

Disp 100 ml

Instructions

Instructions vary with age and weight. Rule is 30 mg/kg/day every 6 hours Common prescription would be 5ml every 6 hours for 7 days.

Precautions: Maximum dose 4 g/day

Pain Control

Pediatric Dentistry

Acetaminophen





10-15 mg/kg q 4-6 hours

Indications: Mild to moderate pain

Available in 1 strength only 160 mg/5ml

Dose 160 mg/5ml

Disp 160 ml

Instructions

Instructions vary with age and weight. Rule is 10-15 mg/kg/dose every 4-6

Precautions: Do not exceed 5 doses/day

Ibuprofen







4-10 mg/kg/dose

Indications: Mild to moderate pain

Available in 1 strength only 100 mg/5ml

Dose 100 mg/5ml

Disp 120 ml

Instructions

Instructions vary with age and weight. Rule is 4-10 mg/kg/dose every 4-6 hours

Precautions:

Gastric irritant, may impair clotting.

Naproxen







5-7 mg/kg/dose

Indications: Mild to moderate pain

Available in 1 strength only 125 mg/5ml

Dose 125 mg/5ml

Disp 500 ml

Instructions

Instructions vary with age and weight.
Rule is 5-7 mg/kg/dose every 8-12 hours

Precautions:

For children of age 2 and above



Hepatic Precaution

There might be a need for caution or need for dose adjustment for patients with hepatic problems



Renal Precaution

There might be a need for caution or need for dose adjustment for patients with renal problems

Anti-Fungals

Pediatric Dentistry

Ketoconazole



Yes Yes

3.3 - 6.6 mg/kg/day

Indications: Fungal infection

Available in 1 strength only 20 mg/ml

Dose 20 mg/ml

Disp 100 ml

Instructions

3.3-6.6 mg/kg/day once daily until 3 days after healing

Precautions:

Possible risk of hepatotoxicity

Mycelex (Clotrimazole)



Yes No

4-10 mg/kg/dose

Indications: Fungal infection

Available in 1 strength only 10 mg troches

Dose 10 mg troches

Disp 70 troches

Instructions

Slowly dissolved troche in the mouth 5 times per day for 14 consecutive days

Precautions:

Patient must be 3 years and older



Hepatic Precaution

There might be a need for caution or need for dose adjustment for patients with hepatic problems



Renal Precaution

There might be a need for caution or need for dose adjustment for patients with renal problems

Anxiolysis

Pediatric Dentistry

Valium (Diazepam)





0.2 - 0,3 mg/kg

Indications: Sedation

Available in 1 strength only 5 mg tablets

Dose 5 mg tablets

Disp 4 tablets Or based on no. of appointments

Instructions

Take 1 tablet 45-60 minutes prior to procedure

Precautions: Warn parents about possible side effects like feeling lightheaded or dizzy, drowsiness or tiredness, dry mouth, and diarrhea

Vistaril (Hydroxyzine)





50 mg/day

Indications: Sedation

Available in 1 strength only 25 mg/5ml

Dose 25 mg/5ml

Disp 120 ml

Instructions

If patient is <6 years max dose is 50 mg/day (2.5ml 4 times/day), if 6+ years 50-100 mg/day (5ml

Precautions: May cause dry mouth



Hepatic Precaution

There might be a need for caution or need for dose adjustment for patients with hepatic problems



Renal Precaution

There might be a need for caution or need for dose adjustment for patients with renal problems

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- 2- Antibiotic and Antimicrobial Use in Dental Practice, Second Edition Newman, Michael and van Winkelhoff, A.J ISBN: 0-86715-397-0
- 3- Sturdevant>s Art and Science of Operative Dentistry 7th Edition by Andre V. Ritter
- 4- https://www.sfda.gov.sa/en/drugs-list
- 5- Handbook of Pediatric Dentistry 5th Edition by Angus Cameron, Richard Widmer
- 6- https://www.ada.org/resources/research/science-and-research-institute/ oral-health-topics/antibiotic-prophylaxis

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