

牙髓病學 Endodontics

Endodontic Diagnosis and Emergency Treatment

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學習目標

All students must be familiar with the development of endodontic theory and practice and an evidence-based approach that permits an intelligent evaluation of current and future technologies and materials.

參考資料

- Principle of Endodontics Pathway of the pulp

Summary

- Rationale of Endodontics
Anatomy and Embryology of the Pulp
Pretreatment and Rubber Dam
- Diseases of the Pulp
- Endodontic diagnosis and emergency management
Endodontic Radiography
- Endodontic Instruments and materials
- The Art and Science of Cleaning and Shaping
- The device and application of the Ni-Ti instrument in the endodontic treatment
- The Art and Science of Obturation—
 - Vertical Compaction of Warm GP Technique
 - Lateral Compaction Technique

Summary

- Surgical Endodontics
- Apexogenesis and Apexification
- Endodontic Traumatology
- Diagnosis and Management of Combined Perio-endo Problem
Treatment planning /Endodontic Mishap /retreatment
- Apex Locator
Tooth Bleaching
- Laser endodontics
digital radiography / CT in Endodontic treatment
- 醫療環境與心理層面
Treatment planning /Endodontic Mishap /retreatment

**Inadequate cleaning and shaping
is
a major cause of endodontic failure.**

- Short to the working length
- Missed canal systems
- Transported the canal systems
- Blocked the canal systems

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Tight and narrow canal systems?

Canal Obstruction ?

Canal Calcification ?

Ultrasonic Instrument (ProUltra Endo Tips)



Acute Alveolar Abscess

Emergency Treatment

▪ **Establish Drainage**

Incision and Drainage

1. Abscess extend out of the alveolar bone
2. It is always better to try to establish drainage through the canal
3. LA and ethyl chloride spray
4. A #11 blade is used to incise into the fluctuant swelling tissue until the bone surface is reached.
5. Blunt dissection with hemostat

Acute Alveolar Abscess

Emergency Treatment

▪ **Hot salt water mouth rinses**

Hot salt water chewing over the involved area for 5 min each time.

Acute Alveolar Abscess

Emergency Treatment

▪ **Antibiotics**

1. It is unnecessary to take antibiotics in chronic localized abscess
2. Indications for use of antibiotics
 - Acute onset infection
 - Diffuse swelling
 - Compromised host defenses
 - Involvement of facial spaces
 - Severe pericoronitis
 - Osteomyelitis

	Cellulitis	Abscess
Duration	Acute	Chronic
Pain	Severe and generalized	localized
Size	Large	Small
Localization	Diffuse border	Well circumscribed
Palpation	Doughy to indurated	Fluctuant
Presence of pus	No	Yes
Body temperature	Usually > 38 ° C	Normal

	Heat	Cold	EPT	Cavity	Percussion	Palpation	X-ray	Treatment
Normal	+	+	+	+	--	--	--	None
Hyperemia	+	++	++	+	--	--	--	Restoration
		+						
Pulpitis	++	+	+	+	--	--	--	Pulpotomy pulpectomy
	+							
Necrosis	--	--	--	--	variable	variable	variable	RCT
AAA	--	--	--	--	+++	+++	variable	Open to drain

Fracture Teeth

- Dental History
- Subjective Examination
- Tactile examination
- Bite test
- Periodontal probing
- Restoration removal
- Staining
- Transillumination
- Surgical assessment

Four reasons of non-surgical endodontic failure

- Inadequate cleaning and sealing of the root canal system
- Apical extension of periodontal disease
- Diagnostic errors
- Fractured teeth

Mineral Trioxide Aggregate (MTA) and Its Clinical Uses

