

1 Year

Emergency and Follow-Up Management of the Avulsed (Knocked-Out) Tooth

10 years of age or older-permanent teeth with closed apex

Under 10 years of age-permanent teeth with open apex

	To years of age of older-permanent teeth with closed apex				Officer 10 years of age-permanent teeth with open apex				
On-Site	Replant Tooth Rinse gently to remove foreign objects from tooth	Unable to Replant Place in transport media a. special storage media b. milk c. saline d. saliva Dry time less than 1 hour	Unable to Replant Tooth Transport media not used Dry time greater than 1 hour		Replant Tooth Rinse gently to remove foreign objects from tooth	Unable to Replant Place in transport media a. special storage media b. milk c. saline d. saliva Dry time less than 1 hour		Unable to Replant Tooth Transport media not used Dry time greater than 1 hour	
	Clean affected area with: a. water b. saline c. chlorhexidine; do not extract tooth	Rinse gently to remove foreign objects; remove coagulum from socket with saline; gently reposition socket wall if fractured; gently replant tooth with finger pressure	Remove debris and necrotic cementum; remove coagulum from socket with saline; gently reposition socket wall if fractured; soak tooth in any available flouride solution for at least 5 minutes; gently replant tooth with finger pressure		Clean affected area with: a. water b. saline c. chlorhexidine; do not extract tooth	Clean contaminated root and apical foramen with saline; soak tooth in ~100 mg doxycycline/20 mg saline; remove coagulum from socket with saline; gently reposition socket wall if fractured; gently replant tooth with finger pressure		Replantation is generally not indicated	
Emergency Facility			office stamp:						
	Antibiotics a. Penicillin–1000 mg stat and 500 mg every 6 hours for 7 days b. Doxycycline–100 mg every 12 hours for 7 days for patients not susceptible to tetracycline staining				Antibiotics (use appropriate doses for patient age and weight) Penicillin—every 6 hours for 7 days				
			Remove flexible splint						
7-10 Days	Remove pulp				If revascularization is a possibility, avoid endodontic treatment unless obvious signs of nonhealing are present; sensitivity may take 3 months to respond				
•		Place calcium hydroxide paste			positively; if endodontic treatment is	necessary, follow guidelines for teeth with			
30 Days	Obturate with gutta-percha if lamina dura intact; if root resorption present, replace Ca(OH) ₂ —evaluate and change Ca(OH) ₂ every 3 months; then obturate with gutta-percha if lamina dura intact Closed apices until apexification is completed; obturate with gutta-percha For additional guidelines, definitions of clinical and								
6 Months		Clini	ical and radiographic exam (post-obtura	ution)				radiographic success/failure and references, visit the	

Clinical and radiographic exam (follow-up for 5 years)

American Association of Endodontists' Web site at www.aae.org.



Emergency and Follow-Up Management of Other Dental Alveolar Injuries

	Concussion	Subluxation	Extrusion	Lateral Luxation	Intrusion					
Diagnosis/Clinical Findings	Tooth tender to touch; no displacement; no mobility	Tooth tender to touch and mobile; bleeding from gums	Tooth partially protruding from bone/jaw	Tooth displaced axially from normal position; often tender to touch or mobile—possibly locked into bone (high metallic sound upon percussion)	Tooth is displaced deeper into the bone/jaw; high metallic sound upon percussion					
Radiographic/Clinical Assessment and Findings	Radiographs; evaluate pulp chamber size and root development; sensitivity testing									
Treatment	Palliative; flexible splint (7-10 days) for com	fort if needed	Reposition; flexible splint	Reposition into normal position; the tooth often must be extruded occlusally past the bony lock prior to repositioning; evaluate position with radiographs; flexible splint	Slightly luxate with forceps; with <i>incomplete root formation</i> , allow for spontaneous reeruption; teeth with <i>complete root formation</i> , orthodontic or surgical repositioning					
Patient Instruction		1. Soft diet; 2. Brush with soft toothbrush after each meal; 3. Rinse with 0.12% chlorhexidine every 12 hours for 1 week								
Up to 3 Weeks	Splint removal; clinical/radiographic exam; s	ensitivity testing		Splint removal; in case of radiographic marginal bone breakdown, add 3-4 weeks to splint time; clinical and radiographic exam	Initiate root canal treatment in 1-3 weeks; splint removal except in teeth with open apices that erupt spontaneously					
	0									
	Uncomplicated	Fracture Complicated	Crown-Root Fracture	Root Fracture	Alveolar Fracture					
Diagnosis/Clinical Finding			Crown-Root Fracture Crown attached to gingiva and mobile; pulp may or may not be exposed	Root Fracture Crown usually mobile and sometimes displaced	Alveolar Fracture Teeth and bone mobile					
Diagnosis/Clinical Finding Radiographic/Clinical Assessment and Findings	Uncomplicated	Complicated Enamel-dentin fracture; pulp exposed	Crown attached to gingiva and mobile; pulp	Crown usually mobile and sometimes displaced						
Radiographic/Clinical	Uncomplicated	Complicated Enamel-dentin fracture; pulp exposed	Crown attached to gingiva and mobile; pulp may or may not be exposed	Crown usually mobile and sometimes displaced						
Radiographic/Clinical Assessment and Findings	Uncomplicated Enamel or enamel-dentin fracture Cover dentin; a. glass ionomer (temporary); b. composite resin; c. bond fragment;	Complicated Enamel-dentin fracture; pulp exposed Radiographs; eva Immature tooth: a. pulp capping; b. partial pulpotomy with Ca(OH) ₂ ; c. bacteria-tight coronal seal Mature tooth: a. pulp capping; b. partial pulpotomy with Ca(OH) ₂ ; c. bacteria-tight coronal seal; d. root canal treatment	Crown attached to gingiva and mobile; pulp may or may not be exposed luate pulp chamber size and root development; Emergency—stabilize coronal fragment with acid etch/resin splint; definitive treatment—expose subgingival fracture site by: a. gingivectomy; b. orthodontic or surgical extrusion; Immature tooth: vital pulp therapy;	Crown usually mobile and sometimes displaced sensitivity testing Reposition coronal fragment; flexible splint, 3-4 weeks	Teeth and bone mobile					
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