Periodontal diagnoses (Armitage, 1999)

Gingival diseases -Signs/symptoms confined to gingiva -Plaque may exacerbate/initiate severity of lesion -Colour: coral pink → red/blue -Contour: scalloped + knife edge → edematous, bulbous	Dental plaque induced -Occurs on a tooth with a history of attachment loss +/- bone loss -Possible contributing local factors: malocclusion, BW violation, root fracture, ortho appliances, cervical resorption	Gingivitis with plaque only	-Generalized: >30% -Localized: ≤ 30% -Mild: slight change in colour, slight edema, no BOP -Moderate: obvious erythema and edema, with BOP -Severe: fiery redness, marked edema, interdental ulceration possible, spontaneous BOP
		Gingival disease modified by systemic factors	-Endocrine changes → more reactive to plaque -Puberty: sex hormones increases bleeding tendency -Pregnancy: affects 30~100% of women, with possible pyogenic granuloma. Mostly anterior and interproximal areas involved -Diabetes: hyperglycemia may alter response to plaque -Blood dyscrasias (leukemia): enlargement, spontaneous bleeding of gingiva
		Gingival disease modified by medications	-Contraceptives may alter hormone levels and affect response to plaque -Some medications cause gingival enlargement (phenytoin, cyclosporine, CCBs), and may be influenced by uncontrolled plaque levels -See 3 rd year notes for diagnosis, treatment, and prevention
		Gingival disease modified by malnutrition	-Host defense compromised → altered host defences → accentuated effects of plaque -Vitamin C deficiency is an example
-Consistency: firm → soft -Others: BOP, exudate,	Non plaque induced	Bacterial gingival diseases	-Gonorrhea, syphilis, streptococcal gingivostomatitis -Could be a direct infection on gingiva, or a gingival presentation of systemic infection
slight increase in temperature -May have stable attachment levels on reduced periodontium -Still reversible -Precursor to attachment loss		Viral gingival diseases	-Most commonly herpes simplex virus (type 1>2). Manifests on gums as primary herpetic gingivostomatitis or reactivation due to reduced immune function -Varicella Zoster virus may cause unilateral painful vesicle formation on the gingiva upon reactivation
		Fungal gingival diseases	-Candidiasis causing white patches on mucosa that can be rubbed off -Associated with immunocompromised or those on long term broad spec antibiotics
		Gingival lesions of genetic origin	-Most commonly hereditary gingival fibromatosis -Gingiva enlarge, and may cover the teeth
		Gingival manifestations of systemic conditions	-Mucocutaneous disorders: lichen planus, pemphigoid -Allergic reactions: restorative materials, toothpastes, gum, foods, etc -Manifests as desquamation and/or ulceration of the gingiva
		Traumatic lesions	-Toothbrush trauma, iatrogenic trauma (orthodontic appliance), minor burns, fingernail trauma

Davia da utitia	Chronic periodontitis -Mostly in adults, but can occur in younger pts -Subgingival calculus usually seen -Variable microbial pattern	Generalized >30%	-Modifyi	ng factors: dia	BOP Yes	HIV, smok Pockets 4mm	ng, stress, CAL 1~2mm	overhangs, calculus Bone loss <15% of root, or 2~3mm	
Periodontitis -Gingivitis -Periodontal pocketing -Loss of alveolar bone -Clinical attachment loss May also include: -Recession of gingival margin -Exudate, suppuration -Furcation involvement -Tooth migration (diastema formation) -Tooth mobility	-Slow to moderate progression, but may have periods of rapid progression	Localized < 30%		Moderate Severe	Yes Yes	5~6mm 7mm+	3~4mm 5mm+	16~30% of root, or 3~5mm >30% of root, or 5mm+	
	Aggressive periodontitis -Rapid attachment loss and bone destruction -Familial aggregation	Localized	-Circumpubertal onset -1 st molar or incisor presentation with interproximal attachment loss on at least 2 permanent teeth, one of which is a 1 st molar, and involving no more than 2 teeth other than 1 st molars and incisors						
	-Not associated with the amount of microbes, but has increased proportions of A.a -May be self arresting	Generalized	-Usually <30 years, but may be older -Generalized interproximal attachment loss in at least 3 permanent teeth other than 1 st molars or incisors -Periods of advanced destruction followed by quiescence of variable length						
	Periodontitis as a manifestation of systemic disease			-Potential confusion with aggressive/chronic perio modified by a systemic condition -When a systemic condition is the major predisposing factor it is called PAAMOSD -Examples: leukemia, cyclic neutropenia					
	Periodontitis associated with endodontic lesions			-Lesion of endodontic origin can affect the periodontium -Conversely, bacteria in periodontitis can leak into a canal and cause an endodontic lesion -When perio and endo lesions combine, they are called combined perio-endo lesions -Naming is not based on initial etiology -Endo lesion should be treated first					
Necrotizing periodontal diseases	Necrotizing ulcerative gingivitis			-Fusiform bacteria, <i>Prevotella intermedia</i> , spirochetes -3 specific findings: intense pain, interdental gingival necrosis, bleeding (spontaneous) -May have: malaise, fever, lymphadenopathy, pseudomembrane on gingiva, fetid breath					
(See 3 rd year notes)	Necrotizing ulcerative periodontitis	-NUG, but also affecting the PDL and alveolar bone -Seen in immunocompromised patients							
	Gingival abscess			-Localized purulent infection on the marginal gingiva or interdental papilla -Usually due to a foreign substance forced into the gingiva					
Abscesses of the periodontium	Periodontal abscess			-Localized purulent infection in a periodontal pocket, with calculus often present -May lead to destruction of PDL and alveolar bone					
	Pericoronal abscess			-Localized purulent infection within the tissue surrounding the crown or a partially erupted tooth					
Development or acquired deformities and conditions	Localized tooth related factors that modify or predispose to plaque induced gingival disease/periodontitis			-Tooth anatomic factors, dental restorations/appliances, root fractures					
	Mucogingival deformities & conditions around teeth or edentulous ridges			-Recession, lack of KT, decreased vestibular depth, aberrant frenum, gingival excess					
	Occlusal trauma	Primary	1	e occlusal for					
		Secondary	-Normal	or excessive of	occlusa	torces on	a tooth wi	th inadequate support	

Prognosis and treatment planning

- What do to on a new periodontal exam
 - Overall appraisal of patient
 - Medical History
 - Dental History (Patient's chief complaint and history of current illness)
 - Casts, clinical photos
 - Oral Examination (OH, malodor, oral cavity in general, lymph nodes)
 - Examination of teeth and implants (wear, sensitivity, mobility, occlusion)
 - Examination of the periodontum (plaque, calculus, characteristics of gingiva, probing depths, BOP, KT/AG, recession, suppuration, presence of abscess)
 - Intraoral Radiographic survey
- Objectives for periodontal therapy
 - Healing of the inflammatory condition (resolve inflammation, reduce pockets, no furcations >3mm)
 - Reestablish physiological contours necessary for preservation of periodontal health
 - Restore lost periodontal structures
 - Prevent recurrence of disease
 - Reduce tooth loss
- Periodontal prognosis
 - Prognosis is a prediction of the probable course, duration and outcome of a disease, based on a general knowledge
 of the pathogenesis of the disease and the presence of risk factors
 - Prognosis MUST be determined after the diagnosis is made and before treatment is planned
 - o **Diagnostic prognosis**: general prognosis without treatment
 - Therapeutic prognosis: prognosis with treatment
- Prognosis for gingival disease
 - o If plaque induced inflammation is the only disease, then prognosis is good
 - All local irritants must be removed, gingival contours must be favourable to good perio, and patient must be compliant
- Prognosis for periodontitis what to consider
 - General/overall
 - Should treatment be undertaken?
 - Is treatment likely to succeed?
 - When prosthetic replacements are needed, will the remaining teeth be able to support it?
 - Consider medical status, age, rate of disease progression, etiologic factors, patient cooperation, smoking status, economic factors, parafunctional habits, ability of dentist
 - Specific/individual
 - Probing depth, mobility, caries, pulp status, tooth position
 - Crown:root ratio, root form, furcation
 - % bone loss, distribution of bone around root, pattern of bone loss

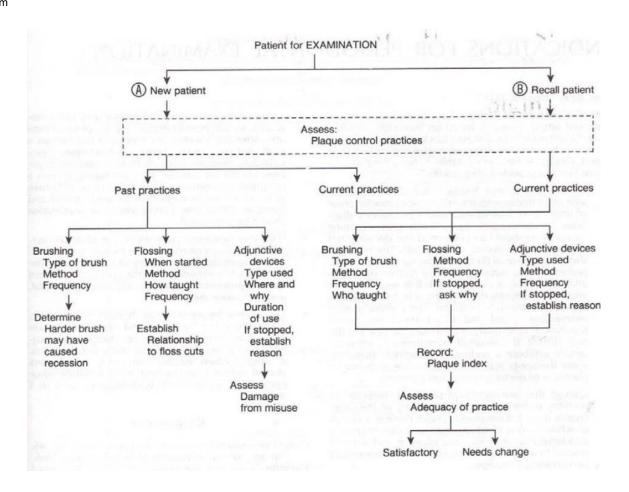
Assigning prognosis

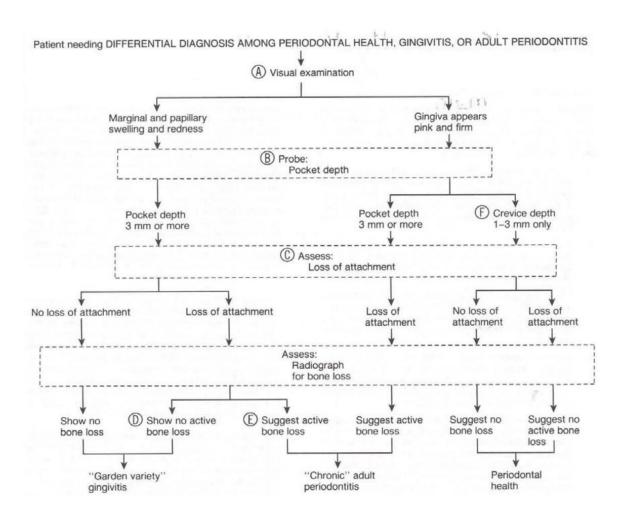
Good	Fair	Poor	Hopeless
-One or more of:	-One or more of:	-One or more of:	-One or more of:
1) Adequate bone	1) Attachment loss to the point	1) Moderate~severe	1) Advanced bone loss,
support	where tooth does not have a good	attachment loss	inadequate to maintain
2) Adequate control	prognosis	2) Class I/II furcation, not	tooth health, comfort, and
of etiologic factors	2) Class I furcation, but allows good	easily accessible for	function
	maintenance and patient is	maintenance	2) Not maintainable
	compliant	3) Class III furcation	3) Extraction
	3) Some tooth mobility	4) Mobility class II or more	recommended
	4) Adequate maintenance possible	5) Poor root form	
	5) Acceptable patient compliance	6) Significant root proximity	
		7) Difficult to maintain areas	
		8) Doubtful compliance	

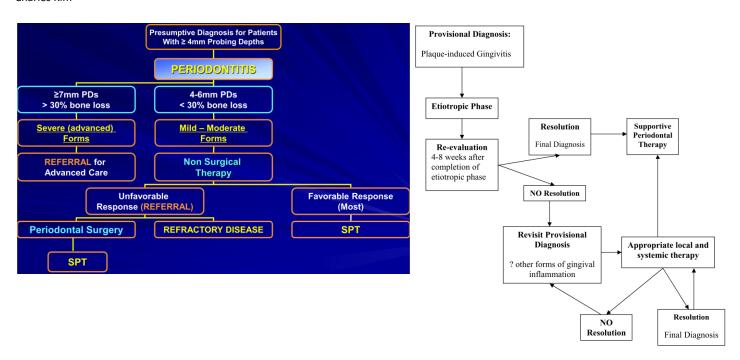
- Factors to consider for extraction of teeth
 - o Removal, retention or temporary retention of a tooth is part of the overall plan of improving health of the mouth
 - Extract if:
 - Excessive mobility makes function be painful
 - Risk for acute abscess formation
 - No use for the tooth in the overall tx plan
 - Can a tooth be retained temporarily? Yes, if:
 - For maintenance of posterior stops
 - Anterior esthetic zone
 - Extraction can be done at time of initial therapy (to reduce number of appointments)
 - Possible need for interdisciplinary consultation

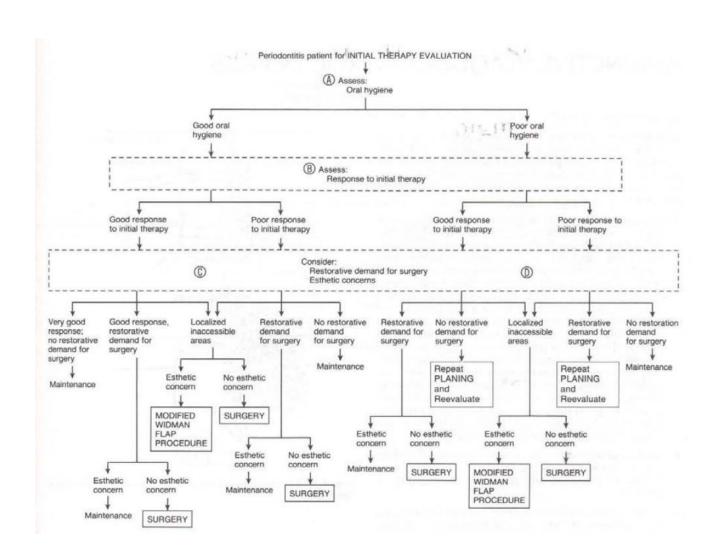
• Periodontal treatment plan steps

Phase I	1. Emergency treatment				
(etiotrophic, non surgical)	-Oral lesions/conditions				
	-Dental infections				
	-Temporomandibular joint disorder				
	2. Modification of patient habits				
	-Oral hygiene instructions				
	-Smoking cessation				
	-Diet modification (patients with high caries risk)				
	3. Antimicrobial therapy (if needed, local or systemic)4. Extractions of hopeless teeth				
	5. Scaling + root planing under LA				
	6. Correction of restorative and prosthetic irritational factors				
	7. Occlusal adjustment				
	8. Provisional splinting				
	9. Re-evaluation in 4~8 weeks				
	-Re-chart pocket depths, BOP, recessions, plaque, calculus, caries				
	-Assesses tissue response to the initial scaling and root planing				
	-Assess patient's oral hygiene and motivation				
	-At this appointment, decide if patient should move on to phase II or phase III				
Phase II	1. Periodontal surgery				
(surgical/restorative)	-Open flap debridement				
	-Osseous resective surgery including crown lengthening				
	-Guided tissue regeneration				
	-Soft tissue grafting				
	2. Implant surgery				
	3. Endodontic surgery				
	4. Final restorations				
	5. Fixed/removable prosthodontics				
	6. Implant supported protheses				
Phase III	1. Periodic recall visits				
(maintenance)	-Assess oral hygiene (assess effectiveness and reinforce)				
	-Assess periodontal status (PD, BOP, rec, furcation, etc)				
	-Assess TMD, occlusion, mobility				
	2. Supportive periodontal therapy				









Patient with RESIDUAL POCKET DEPTHS AT TIME OF INITIAL THERAPY EVALUATION

