

**AMERICAN BOARD OF PERIODONTOLOGY**  
**Qualifying Exam Outline**

**I. Basic Science**

A. Anatomy

1. Gross surgical anatomy
2. Microanatomy
3. Ultrastructural anatomy
4. Growth and pathology

B. Biochemistry-Physiology

1. Biochemistry
  - a. Connective tissue
  - b. Hard tissue
  - c. Cell biology
  - d. Inflammation
2. Physiology (4)
  - a. Cardiovascular
  - b. Endocrine
  - c. Neural
  - d. Other

C. Immunology

1. Anatomy of the immune system
2. Humoral and complement
3. Cell mediated
4. Immune deficiencies

D. Microbiology

1. Biology of microorganisms
  - a) Bacteria
  - b) Viruses
2. Pathogenic mechanisms

E. Pharmacology

1. Antimicrobials
  - a. systemic agents
  - b. local agents
2. Narcotics and analgesics
3. Cardiovascular
4. Emergency Drugs
5. Drug interactions

F. Molecular Biology

G. Genetics

**II. Clinical**

A. Diagnosis

1. Medical and dental history
  - a. Conditions
  - b. Emergencies
2. Clinical findings/interpretation
3. Diagnostic techniques
  - a. Probing
  - b. Radiology/imaging
  - c. Crevicular fluid
  - d. Disease activity
  - e. Microbiologic findings

#### 4. Pulpal-periodontal pathology

##### B. Etiology

1. Plaque
2. Local factors
3. Occlusion
4. Iatrogenic factors
5. Tobacco products

##### C. Prognosis

##### D. Treatment Planning

##### E. Therapy

1. Plaque control, behavioral modification, devices
2. Non-surgical
  - a. Root planing
  - b. Systemic/local adjuncts
3. Occlusal therapy
4. Periodontic-Orthodontic therapy
5. Surgical therapy
  - a. Gingivectomy and gingivoplasty
  - b. Gingival attachment procedures
  - c. Regeneration or replacement of periodontal supporting structures (GTR)
  - d. Osseous resection
    - 1) treating disease
    - 2) functional and esthetic crown lengthening
  - e. Mucogingival procedures and flap management
  - f. Tooth/Root resection and furcation management
  - g. Perioplastic surgery
6. Guided bone regeneration
  - a. Alveolar ridge augmentation
  - b. Sinus augmentation
  - c. Tooth socket preservation
7. Dental implants

##### F. Maintenance

### III. Oral Pathology and Oral Medicine

#### A. Ulcers and vesicular-bullous lesions

#### B. Hypersensitivity reactions

#### C. Discolorations and Pigmentation

#### D. Neoplasms

1. Malignant
2. Non-malignant

#### E. Infections

#### F. Syndromes

#### G. Endocrine

#### H. Oral manifestations of systemic disease

I. Laboratory tests

**IV. Periodontal Histology and Pathology**

- A. Gingivitis
  - 1. Plaque related
  - 2. Non-plaque related
- B. Periodontitis
  - 1. Chronic periodontitis
  - 2. Aggressive periodontitis
  - 3. Periodontitis associated with systemic disease
  
- C. Necrotizing Periodontal Diseases
  - 1. Necrotizing ulcerative gingivitis
  - 2. Necrotizing ulcerative periodontitis
  
- D. Mucogingival Deformities
  - 1. Recession
  - 2. Ridge defects
  
- E. Abscesses of the periodontium
  - 1. Periodontal and Gingival abscesses
  
- F. Occlusal trauma
  
- G. Gingival enlargement
  - 1. Drug related
  - 2. Non-drug related
  
- H. Periodontal histology-histopathology
  - 1. Periodontal structures
  - 2. Periodontal ultrastructure
  - 3. Pathogenesis
  
- I. Periodontic-Endodontic Lesions
  
- J. Wound healing

**V. Epidemiology and Statistics**

**VI. Systemic Implications**

- A. Cardiovascular
- B. Pregnancy
- C. Respiratory
- D. Diabetes
- E. Other
  - 1. Diet/Nutrition
  - 2. Aging
  - 3. Stress
  - 4. Osteoporosis