



قائمة الاسئلة

امتحان نهاية الفصل الدراسي الأول - للعام الجامعي 1446 هـ - الموافق -2025/2024م-مكلية طب وجراحة الفم والاسنان :: علم المناعة المتقدم
د/ ابتهاج مدار

- 1) What is dysbiosis in periodontal diseases?
 - 1) - A balance in microbial community
 - 2) - Overgrowth of beneficial bacteria
 - 3) + Imbalance in microbial community leading to pathogenic dominance
- 2) Which immune response is involved in chronic inflammation?
 - 1) - Innate immunity
 - 2) + Acquired immunity
 - 3) - Passive immunity
- 3) What cytokine is not associated with periodontitis?
 - 1) - IL-1beta
 - 2) - IL-6
 - 3) + Insulin
- 4) What does increased pocket depth in periodontitis indicate?
 - 1) - Healthy gums
 - 2) + Anaerobic microbial growth
 - 3) - Decreased bacterial colonies
- 5) What can modified risk factors like stress lead to in periodontitis?
 - 1) - Decrease in inflammatory response
 - 2) - Increased genetic risk
 - 3) + Overexpression of proinflammatory cytokines
- 6) Which microorganism is considered a primary etiological factor in periodontal diseases?
 - 1) - Streptococcus constellatus
 - 2) + Porphyromonas gingivalis
 - 3) - Neisseria mucosa
- 7) What does lipopolysaccharide from P. gingivalis stimulate?
 - 1) - Osteoblast proliferation
 - 2) + T-helper cell proliferation
 - 3) - Fibroblast attachment
- 8) Which virulence factor of Aggregatibacter actinomycetemcomitans is associated with adhesion?
 - 1) - Exotoxins
 - 2) - Leukotoxin
 - 3) + Type IV pili
- 9) Which microorganism produces trypsin-like proteases and sialidases?
 - 1) + Tannerella forsythia
 - 2) - Campylobacter rectus
 - 3) - Fusobacterium nucleatum
- 10) What synergistic relationship exists between Treponema denticola and P. gingivalis?
 - 1) - Competition for nutrients
 - 2) + Biofilm formation
 - 3) - Inhibition of cytokines
- 11) Which microorganism acts as a bridge between gram-positive and gram-negative bacteria?
 - 1) - Tannerella forsythia
 - 2) + Fusobacterium nucleatum
 - 3) - Treponema denticola
- 12) Which condition is associated with Prevotella intermedia?
 - 1) + Pregnancy gingivitis





- 2) - Dental caries
- 3) - Oral candidiasis
- 13) What is a key virulence factor of *Campylobacter rectus*?
 - 1) Flagellum
 - 2) - Lipopolysaccharide
 - 3) - Leukotoxin
- 14) Which microorganism is often present in both healthy and diseased periodontal sites?
 - 1) - *Dialister pneumosintes*
 - 2) *Eikenella corrodens*
 - 3) - *Tannerella forsythia*
- 15) Which bacterium is part of the orange complex cluster group in periodontal disease?
 - 1) - *Porphyromonas gingivalis*
 - 2) *Parvimonas micra*
 - 3) - *Campylobacter rectus*
- 16) What is the primary role of fimbriae in *P. gingivalis*?
 - 1) Invasion of host cells
 - 2) - Immune suppression
 - 3) - Bone resorption
- 17) Which microorganism produces hydrogen sulfide as a metabolite?
 - 1) - *Tannerella forsythia*
 - 2) *Fusobacterium nucleatum*
 - 3) - *Prevotella intermedia*
 - 4) - *Treponema denticola*
- 18) Which enzyme is produced by *Treponema denticola*?
 - 1) - Sialidase
 - 2) Phosphatase
 - 3) - Leukotoxin
- 19) What is the primary purpose of biofilm-targeting agents?
 - 1) Disrupt biofilm formation
 - 2) - Enhance bacterial adhesion
 - 3) - Promote biofilm growth
 - 4) - Encourage bacterial toxins
- 20) Growth factors in PRP are derived from:
 - 1) - Nanoparticles
 - 2) Platelets
 - 3) - Biofilms
- 21) What is a key feature of laser therapy in periodontal treatment?
 - 1) Minimizing damage to healthy tissues
 - 2) - Enhancing biofilm growth
 - 3) - Increasing microbial resistance
- 22) Chlorhexidine is classified as a:
 - 1) Topical agent
 - 2) - Probiotic
 - 3) - Biofilm disruptor
- 23) Bone grafting in periodontal treatment facilitates:
 - 1) - Biofilm formation
 - 2) New bone growth
 - 3) - Tissue inflammation
- 24) What does Guided Tissue Regeneration (GTR) primarily use?





- 1) - Platelets
 - 2) Barrier membranes
 - 3) - Essential oils
- 25) Which of the following is a delivery method for probiotics?
- 1) Oral rinses
 - 2) - Barrier membranes
 - 3) - Antibiotic capsules
- 26) Which pathogen is dominant in aggressive forms of periodontitis?
- 1) - Streptococcus mutans
 - 2) Aggregatibacter actinomycetemcomitans
 - 3) - Tannerella forsythia and Prevotella intermedia
- 27) Which of the following cytokines promotes cell-mediated immunity?
- 1) - Interleukin-4
 - 2) - Interleukin-6
 - 3) Interferon- γ
- 28) Which cell type expresses immunoglobulin molecules for antigen recognition?
- 1) - T-lymphocytes
 - 2) B-lymphocytes
 - 3) - Neutrophils and Macrophages
- 29) Which cell type expresses immunoglobulin molecules for antigen recognition?
- 1) B-lymphocytes
 - 2) - Neutrophils
 - 3) - Macrophages
- 30) What role do biofilms play in periodontal disease?
- 1) Protect pathogens from immune responses
 - 2) - Neutralize cytokines
 - 3) - Promote bone regeneration

