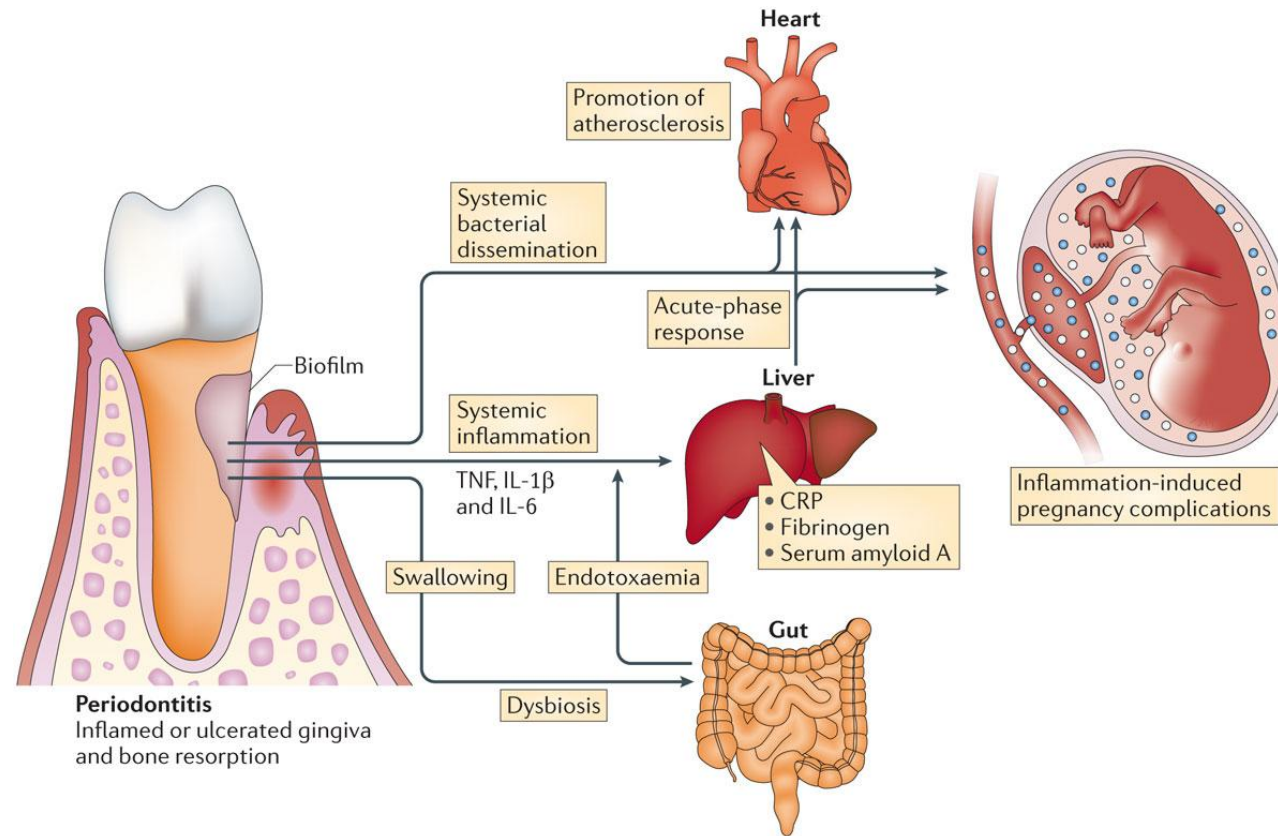


# PARODONTIUM



# Periodontitis: from microbial immune subversion to systemic inflammation



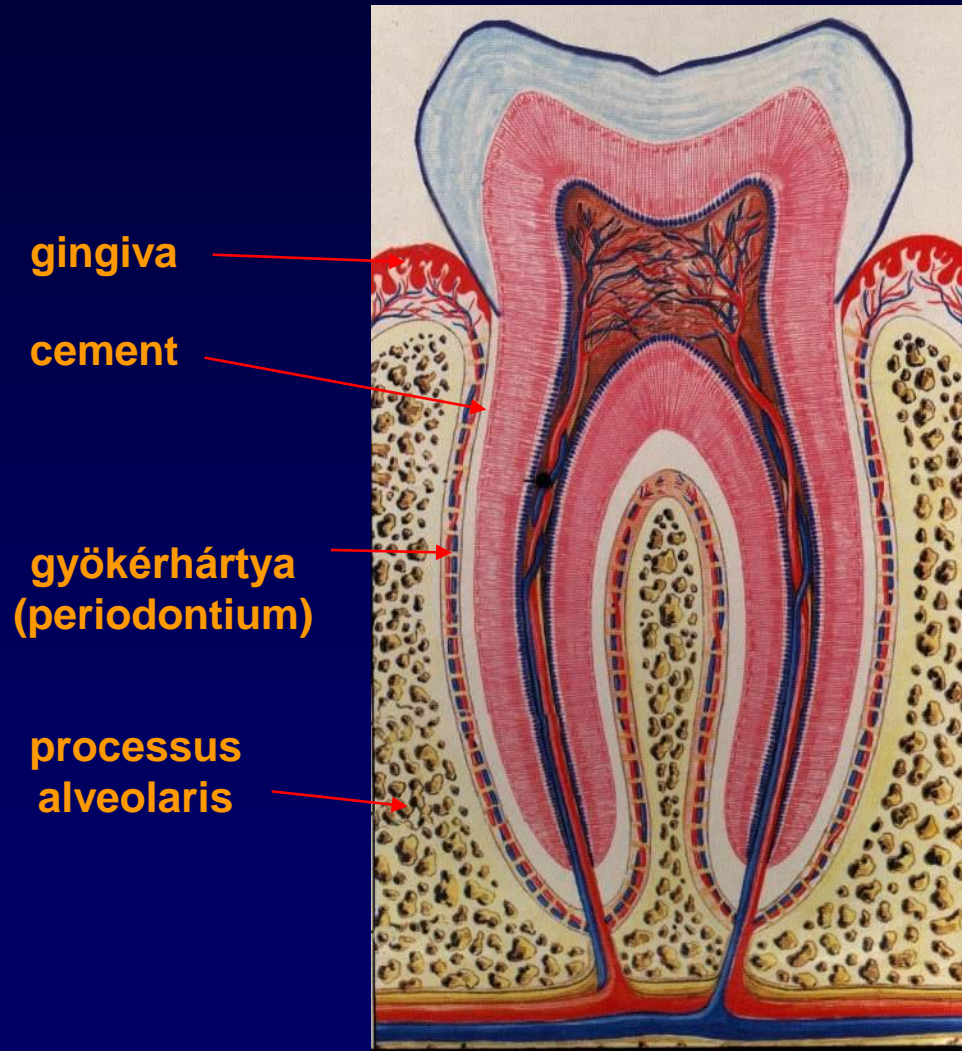
Nature Reviews | Immunology

Periodontitis: from microbial immune subversion to systemic inflammation

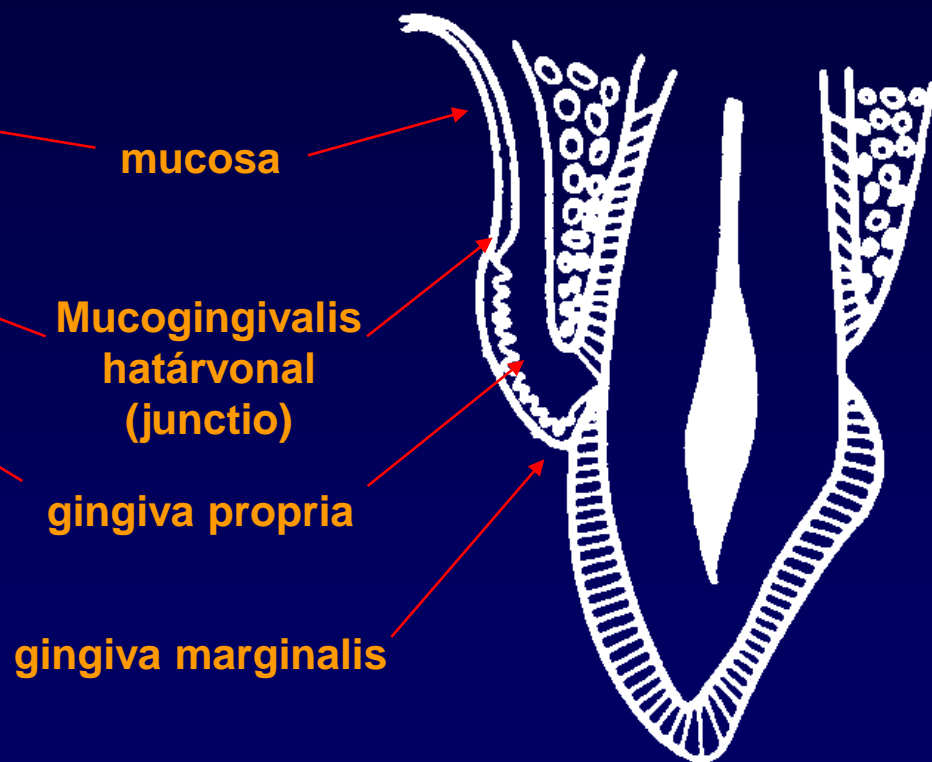
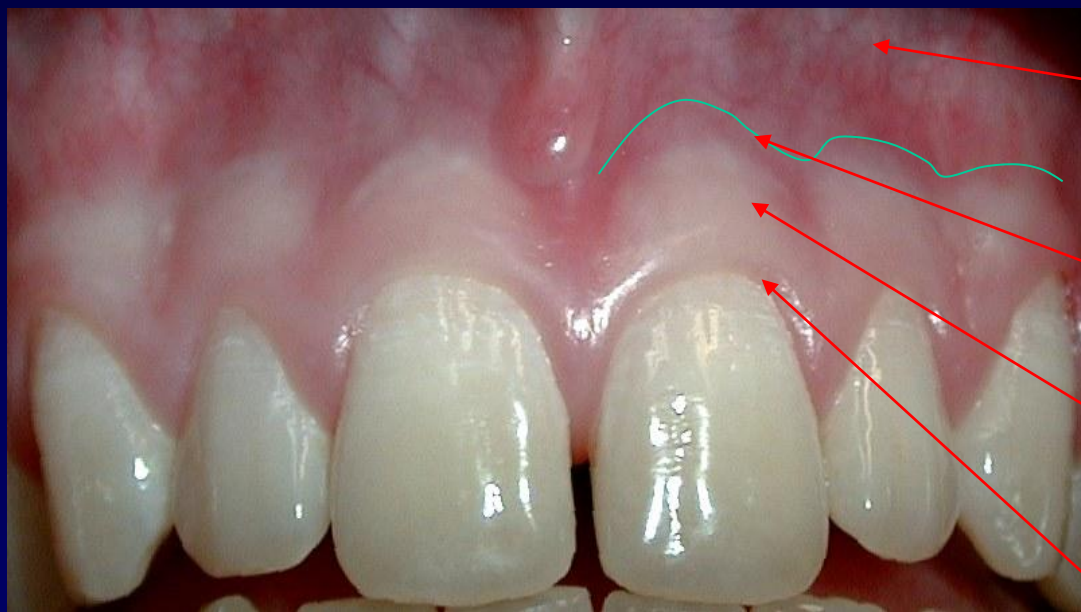
[George Hajishengallis](#)

Nature Reviews Immunology 15, 30–44 (2015) doi:10.1038/nri3785

# A PARODONTIUM RÉSZEI



# A GINGIVA RÉSZEI



mucosa

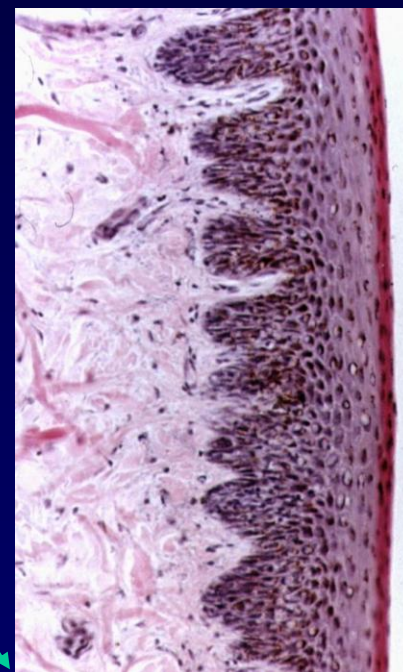
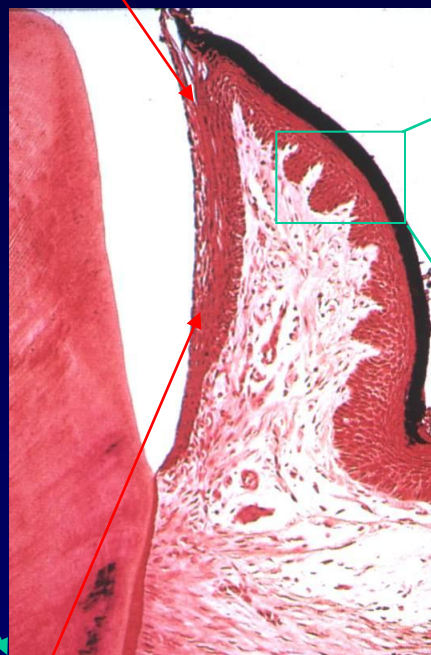
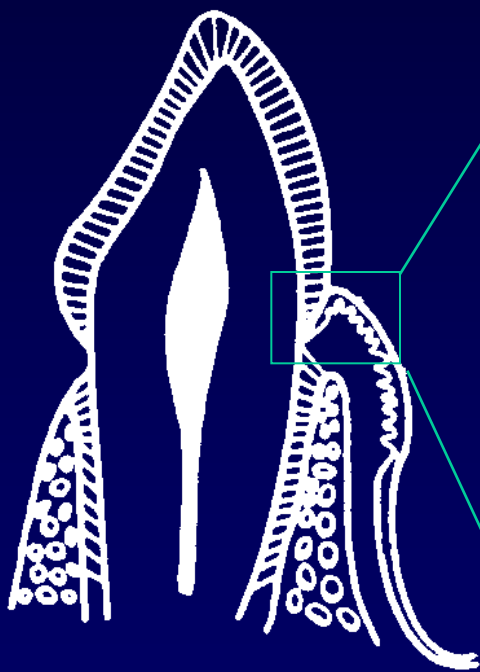
Mucogingivalis  
határvonal  
(junctio)

gingiva propria

gingiva marginalis

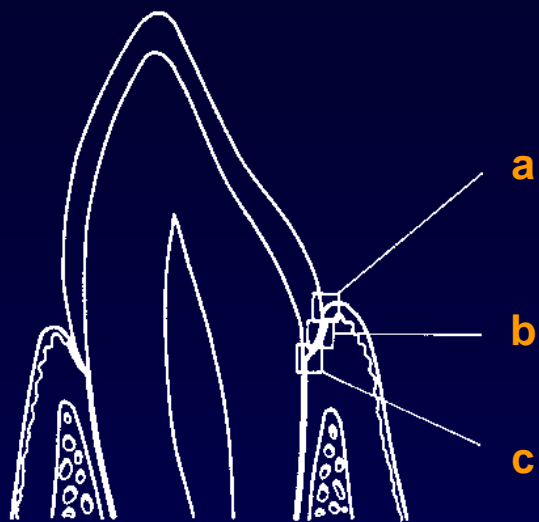
# A GINGIVA SZERKEZETE

sulcus gingivae (sulcus folyadék)



junctionalis epithelium

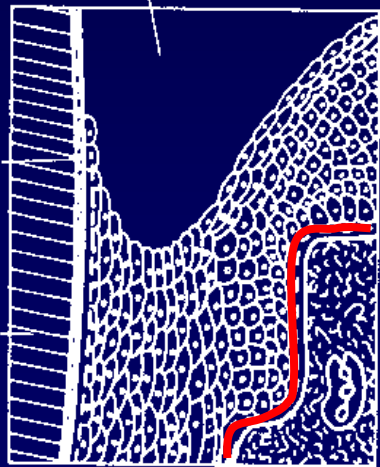
# JUNCTIONALIS EPITHELIUM (hámtapadás)



*sulcus  
gingivae*

*cuticula  
dentis*

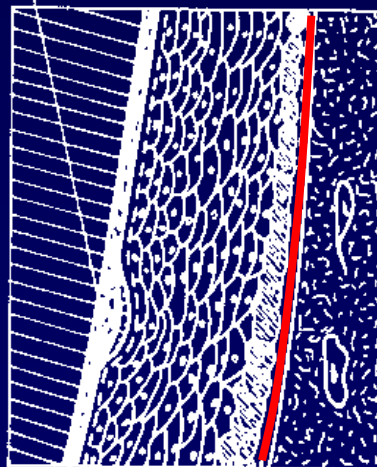
*zománc*



*membrana  
basalis*

**a**

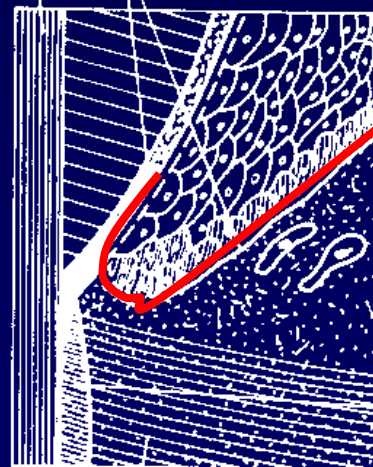
*afibrillaris  
acellularis  
cementsziget*



*basalis  
sejtréteg*

**b**

*dentin  
membrana  
basalis*

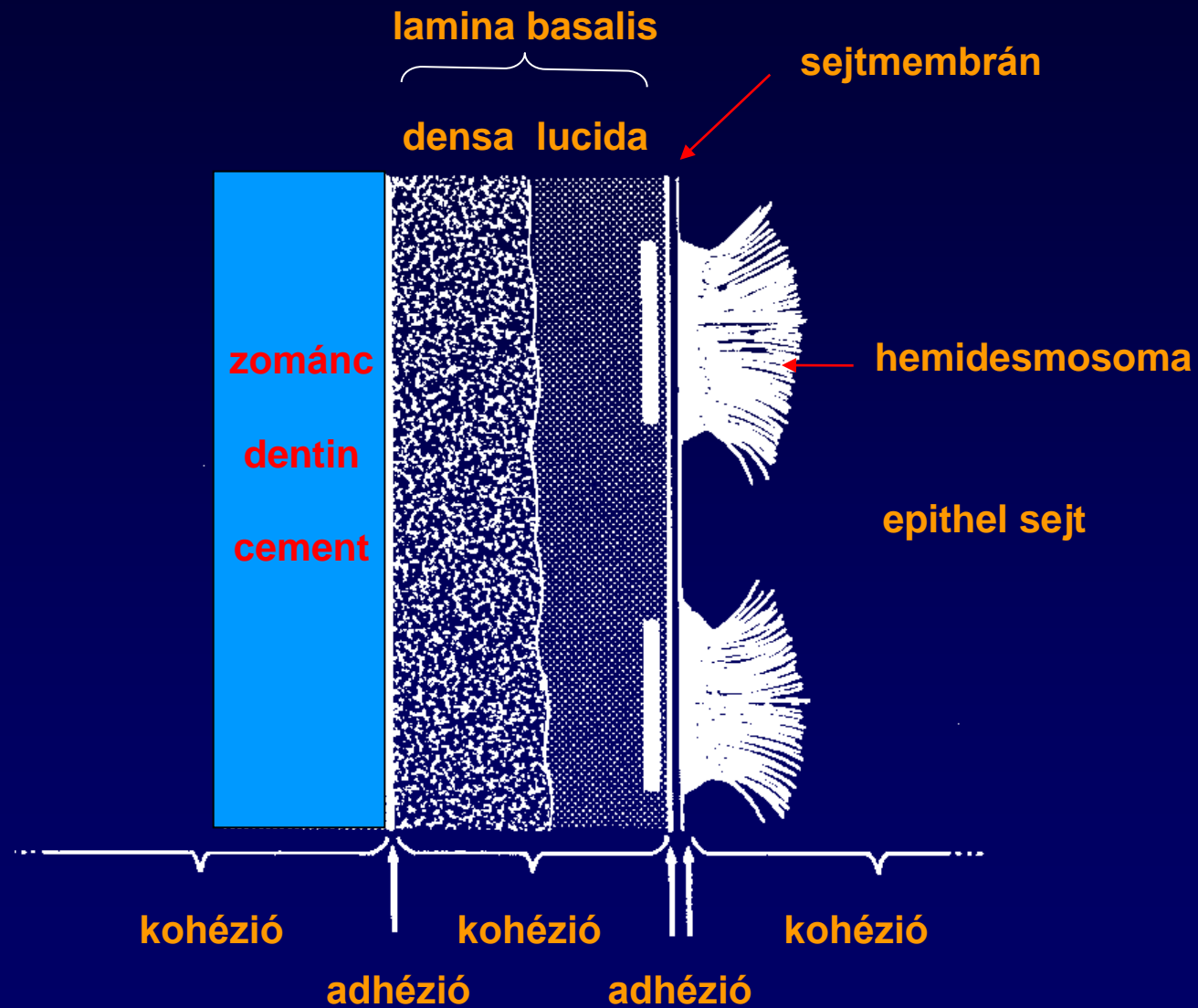


*dentogingivalis  
rostok*

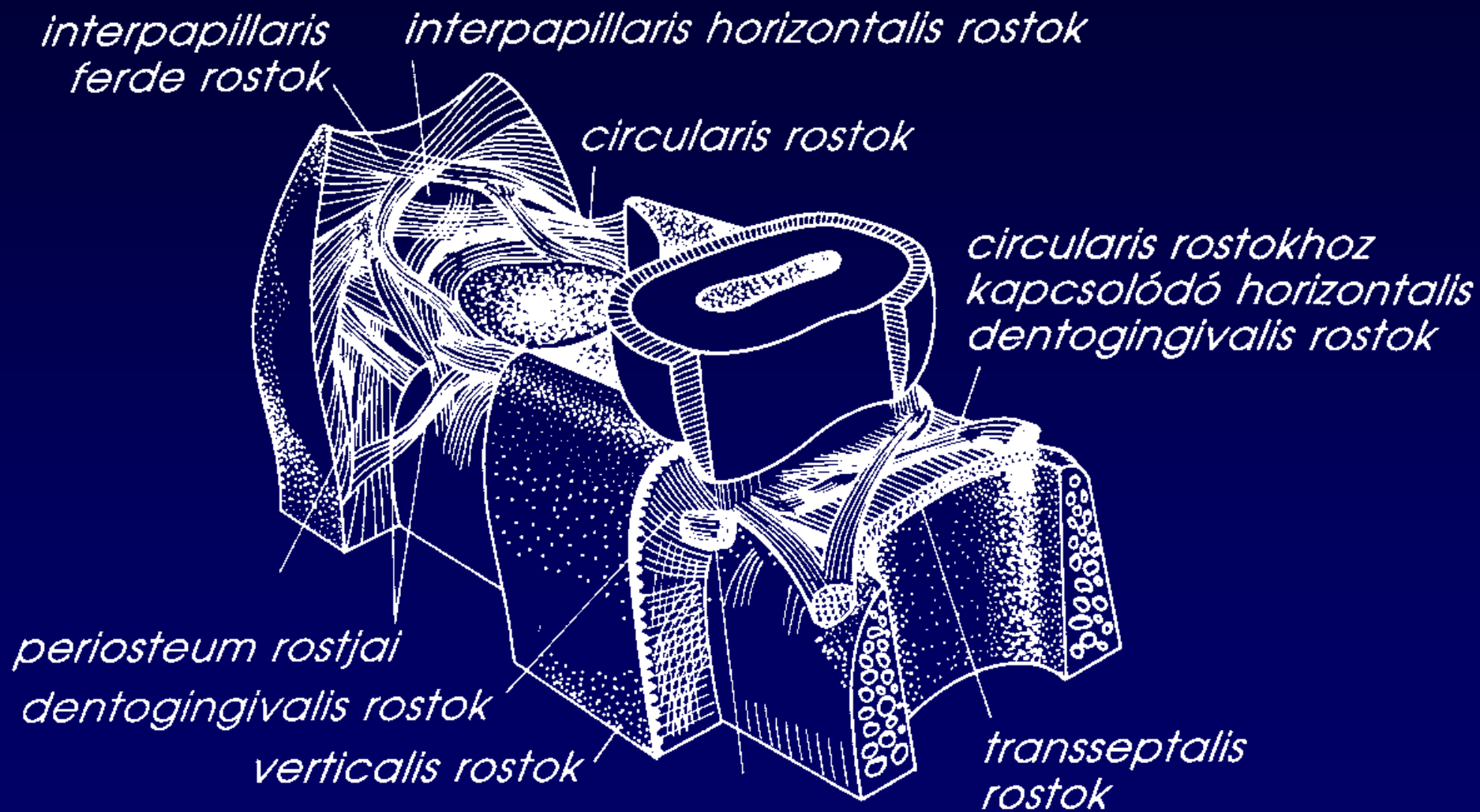
**c**

*cement*

# HÁMTAPADÁS



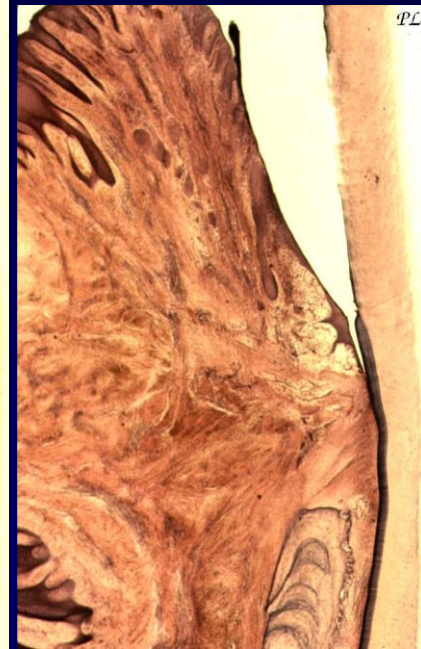
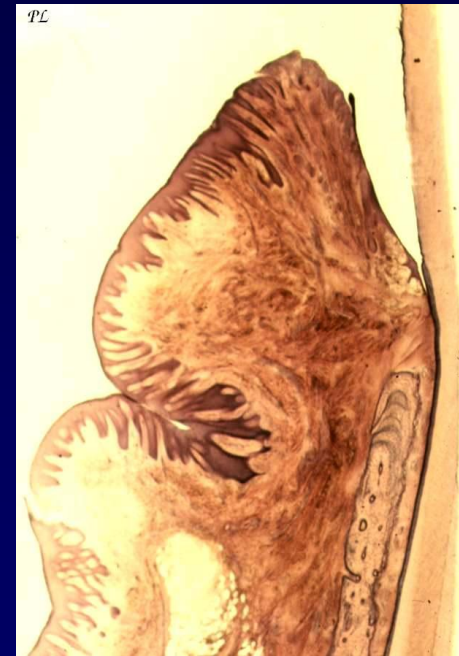
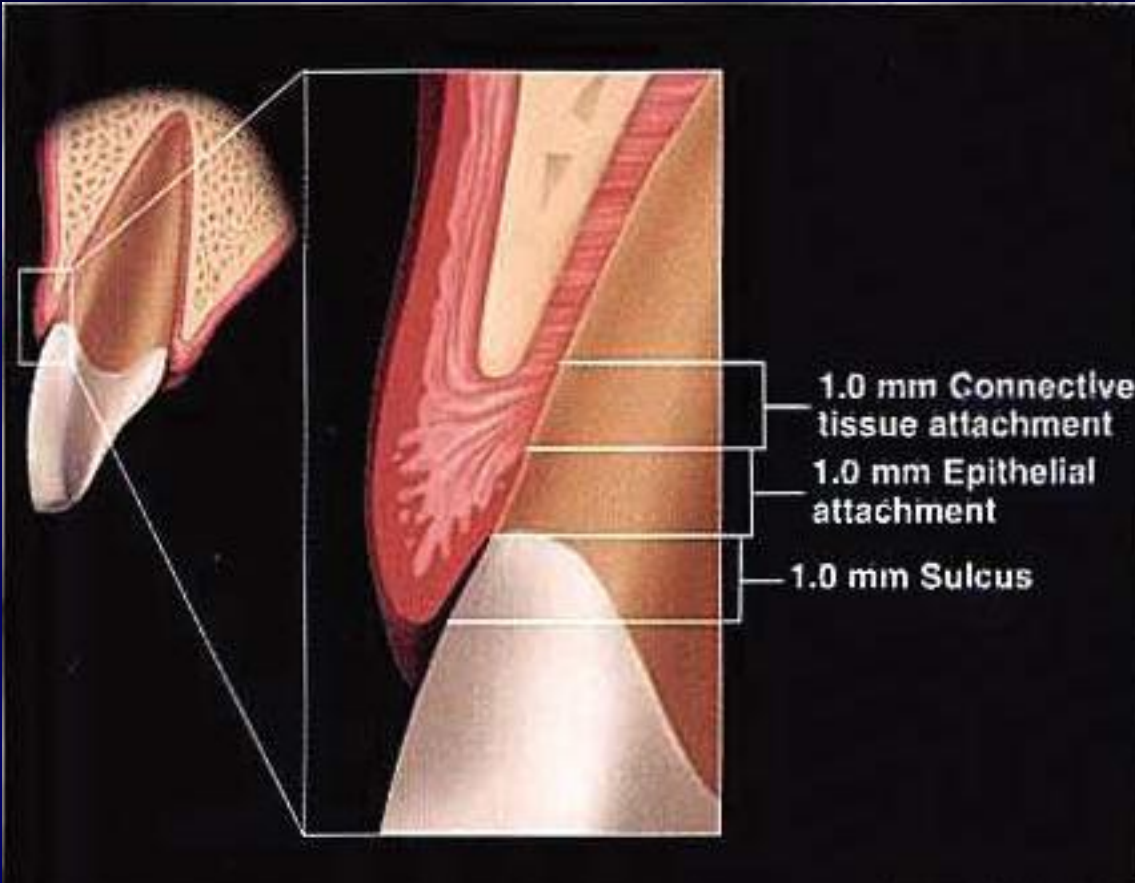
## A GINGIVA ROSTRENDSZERE



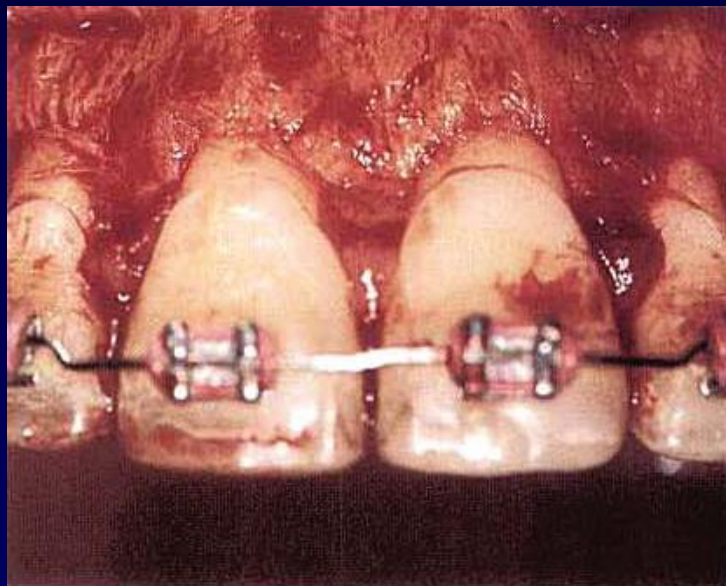




# biológiai szélesség



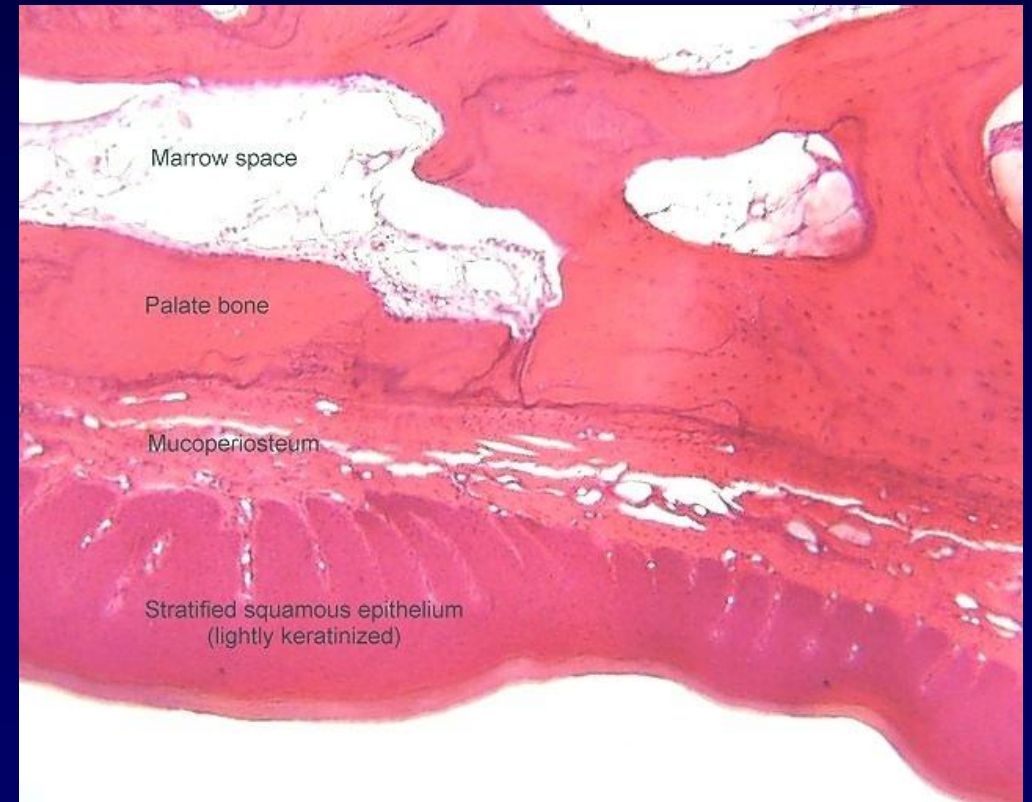
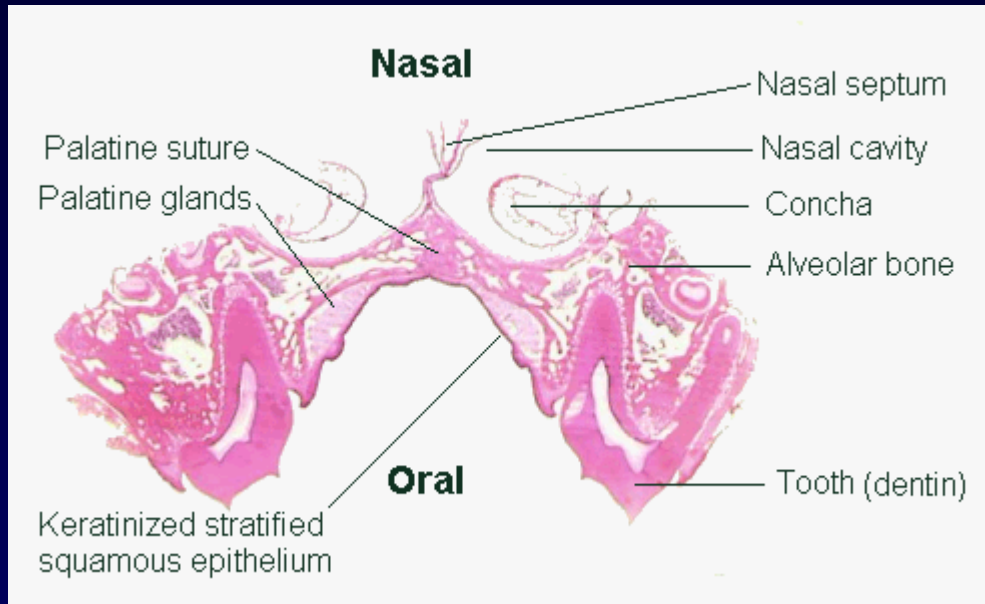
## Biológiai szélesség



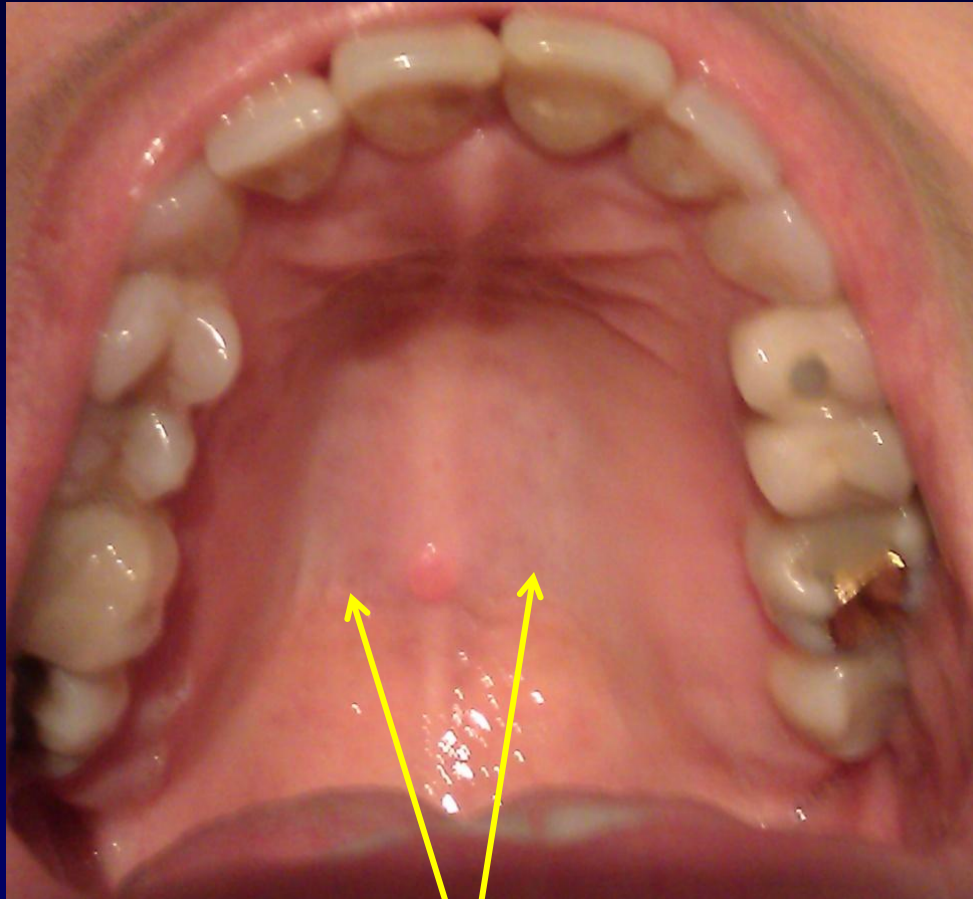
*J. William Robbins, DDS, MA*

Pract Periodont Aesthet Dent 1999;11(2):265-272.

# Mucoperiosteum epithelium, lamina propria, periosteum

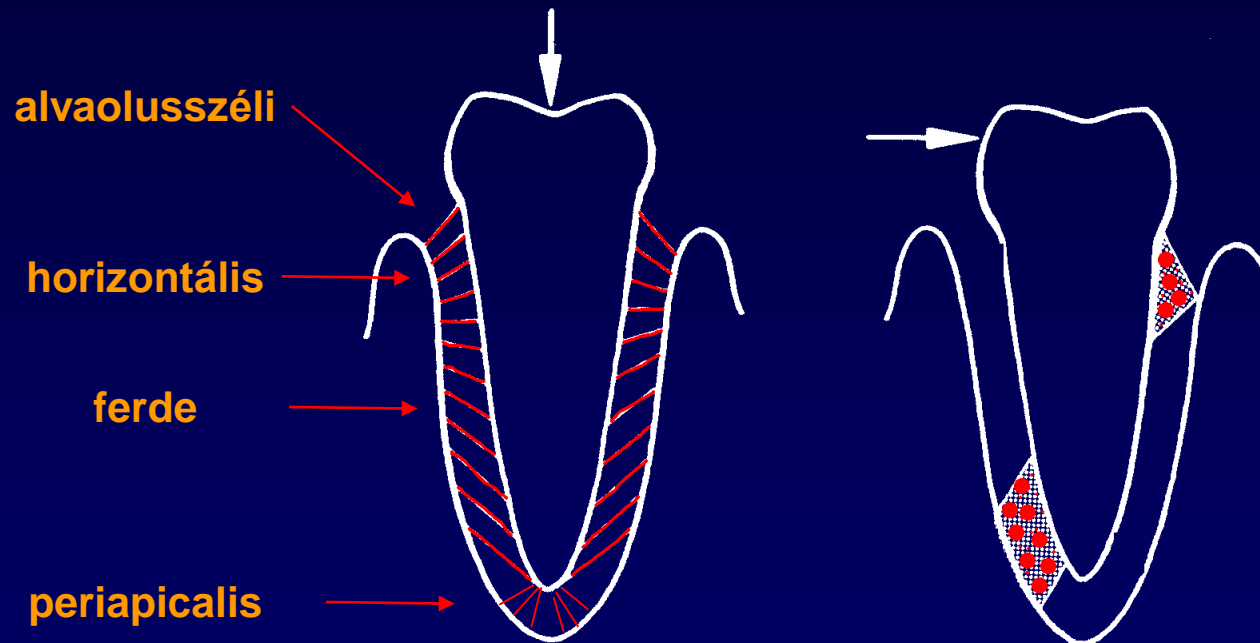


[http://neuromedia.neurobio.ucla.edu/campbell/oral\\_cavity/wp.htm#D-91](http://neuromedia.neurobio.ucla.edu/campbell/oral_cavity/wp.htm#D-91)

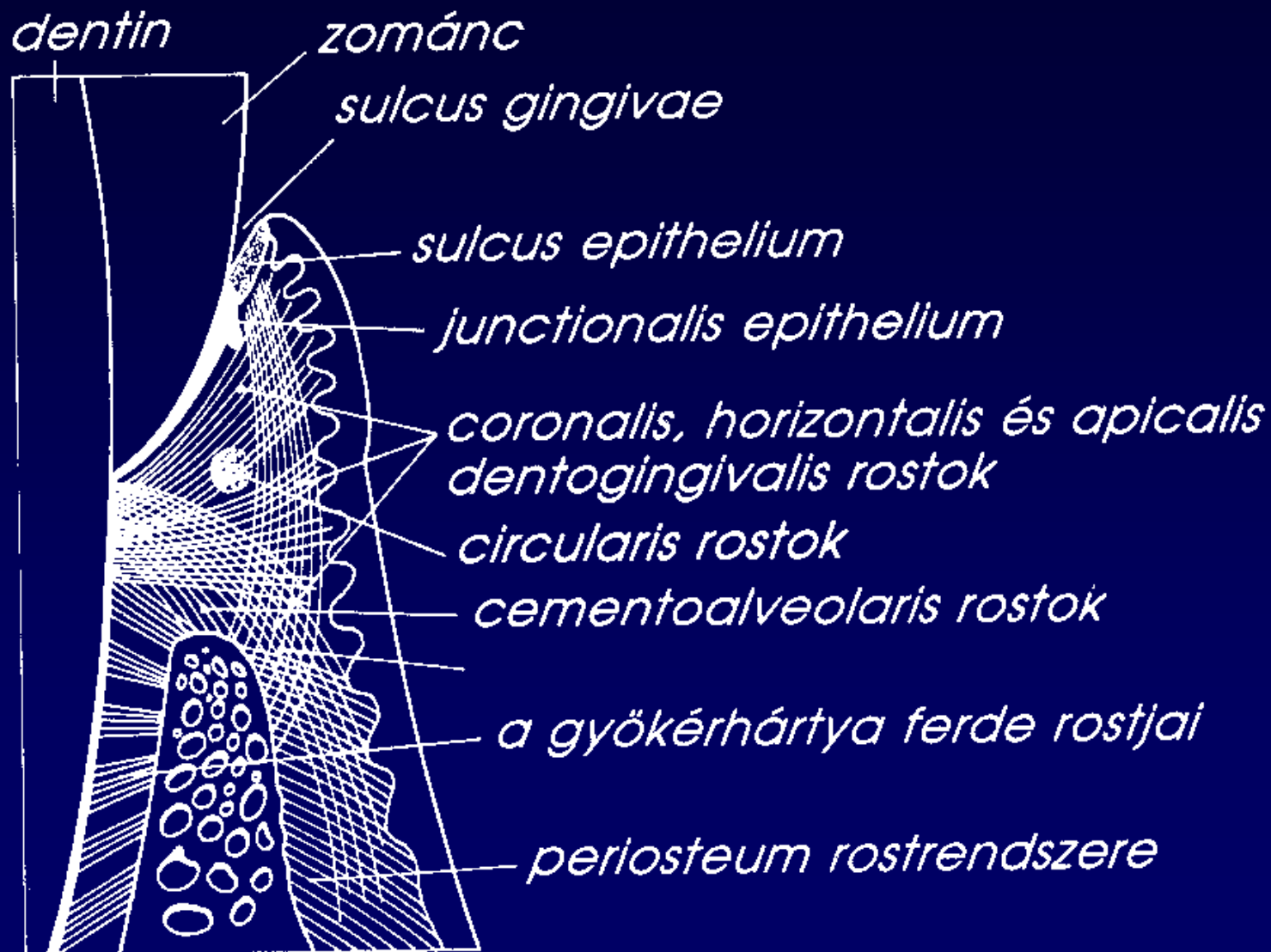


**Mucoperiosteum  
(nincs submucosa)**

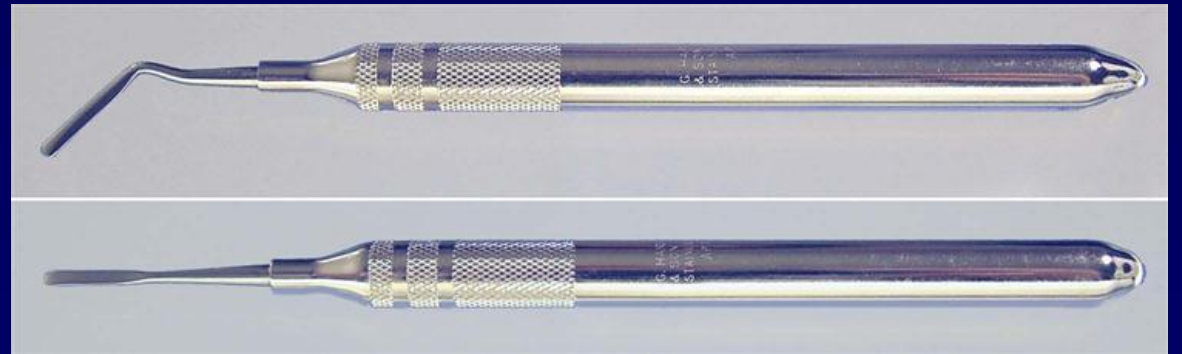
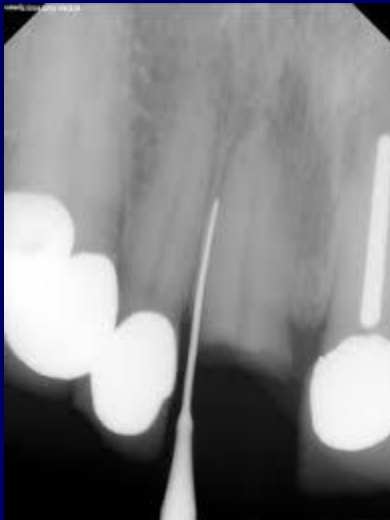
# A GYÖKÉRHÁRTYA ROSTOK (SHARPEY-ROSTOK)



## A PARODONTIUM ROSTRENDSZERE



# periotom

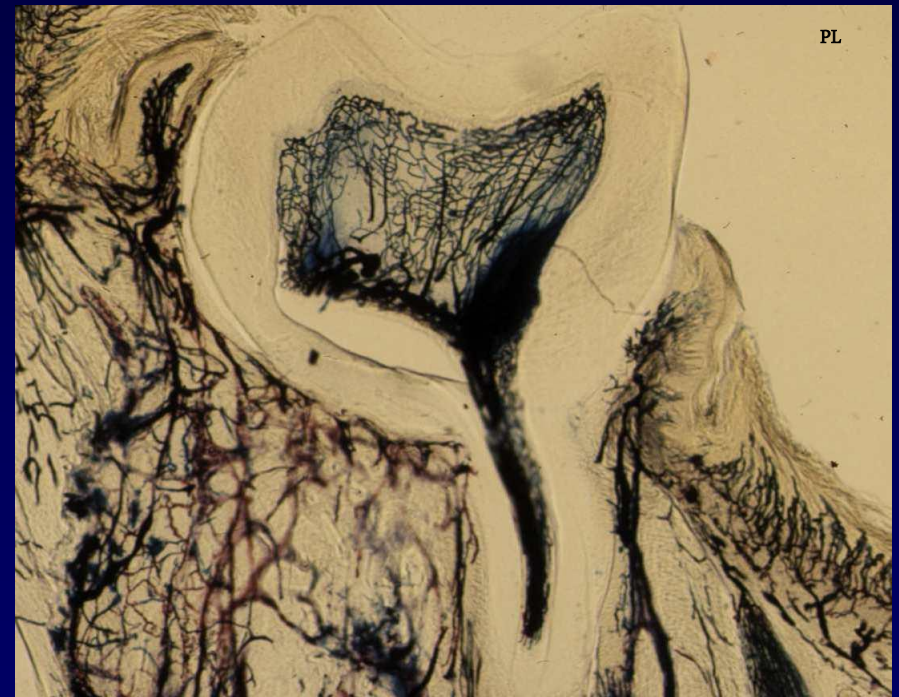
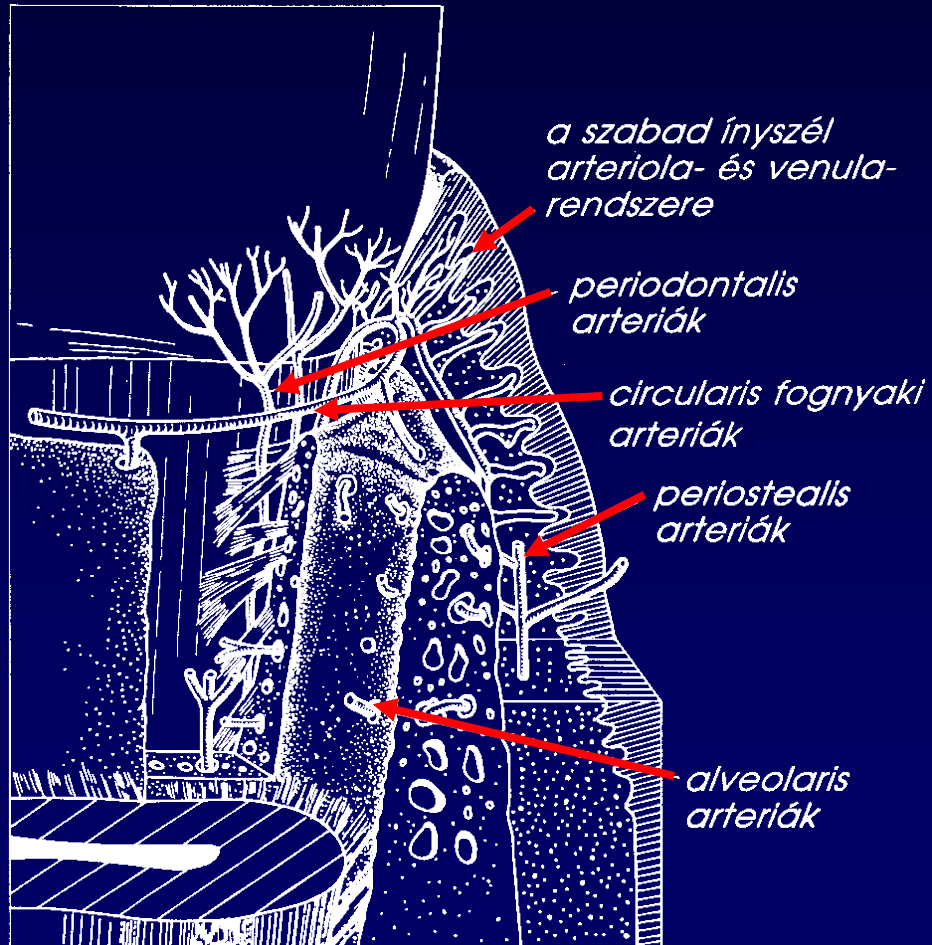




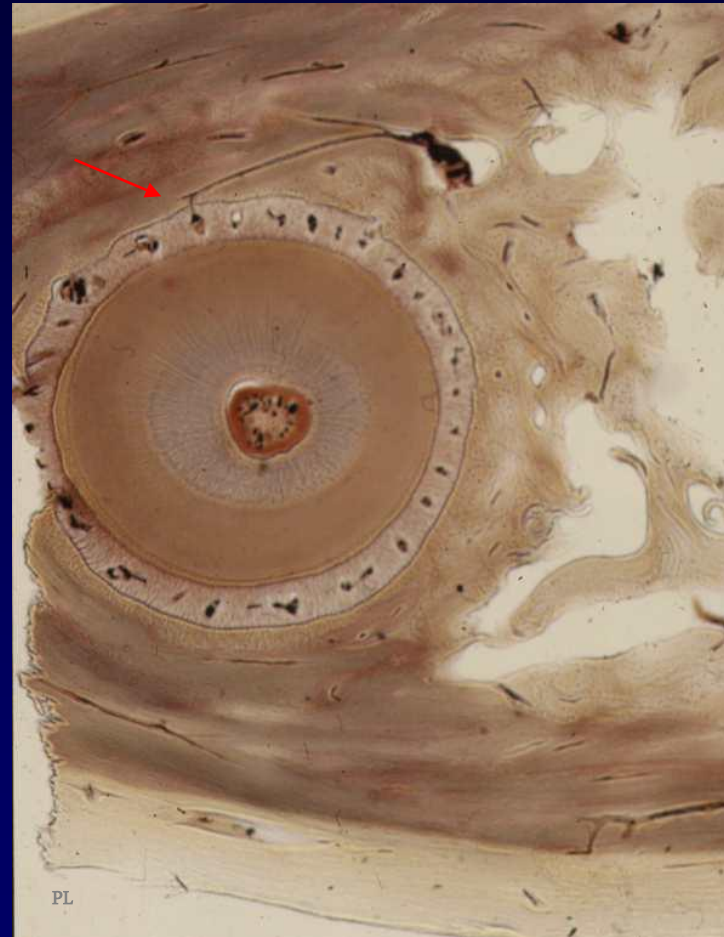
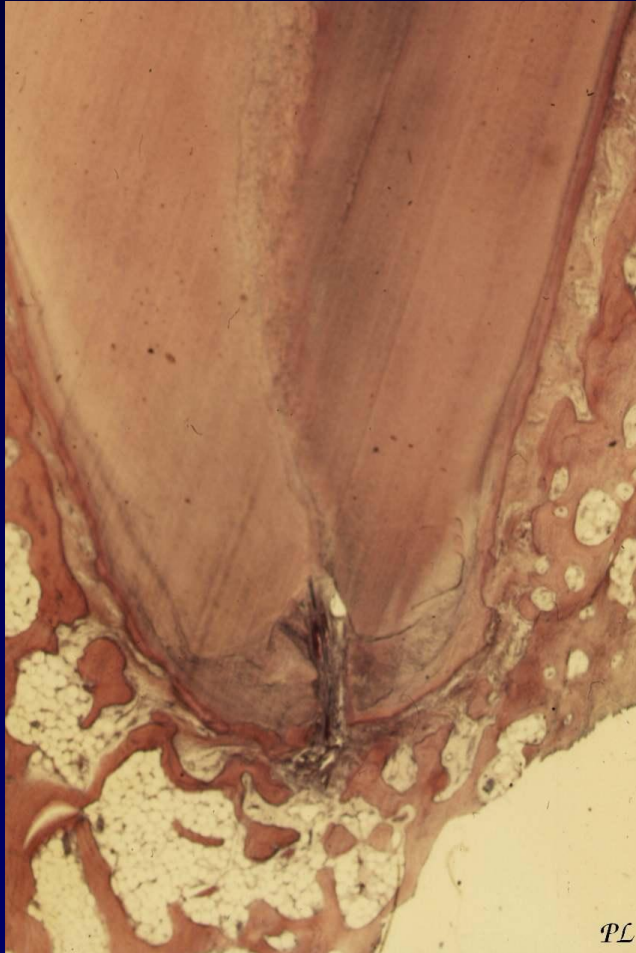
# PARODONTIUM KÁROSODÁS



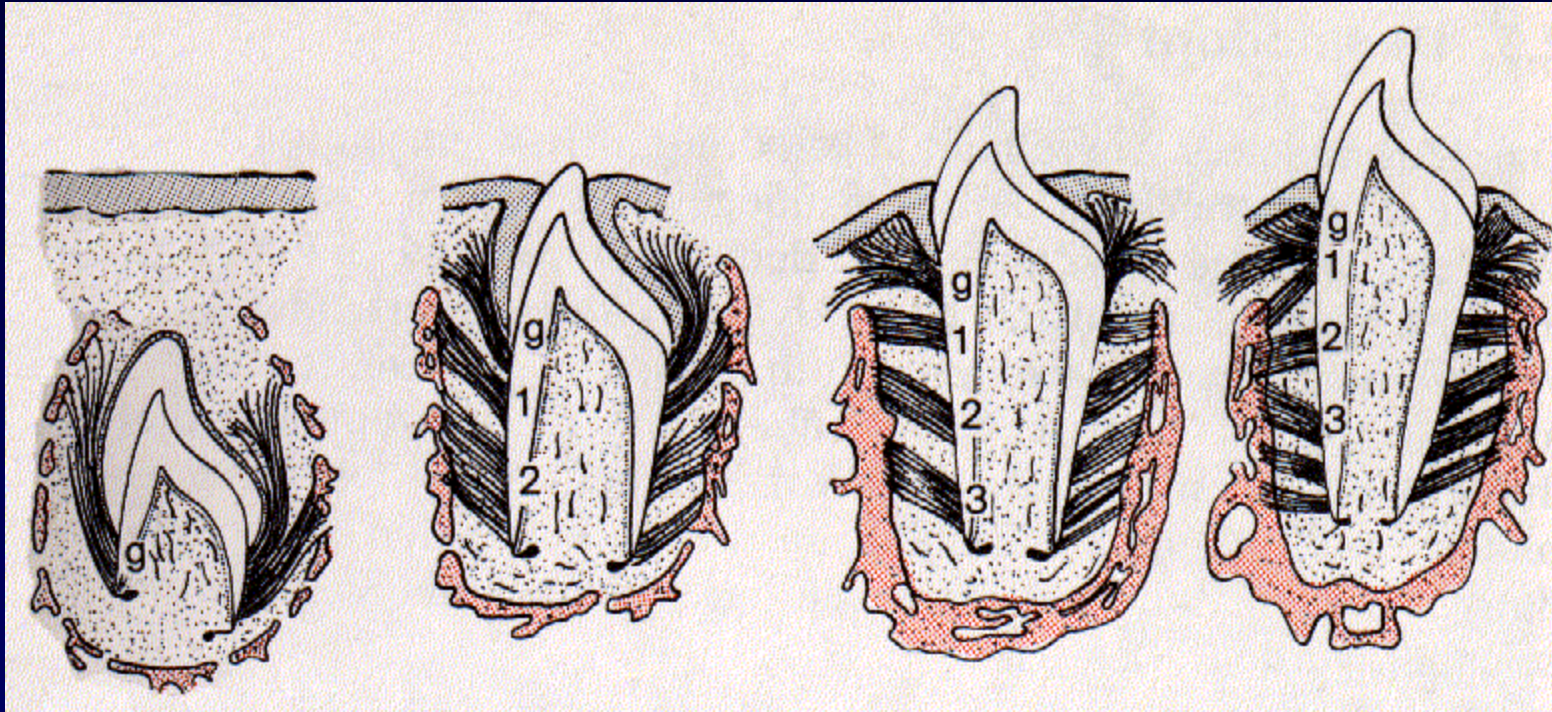
# A PARODONTIUM ÉRRENDSZERE



# GYÖKÉRHÁRTYA ÉRRENDSZERE



# A PARODONTIUM FEJLŐDÉSE



## A PARODONTIUM RÖNTGENKÉPE



lamina compacta

# PARODONTIUM KÁROSODÁS

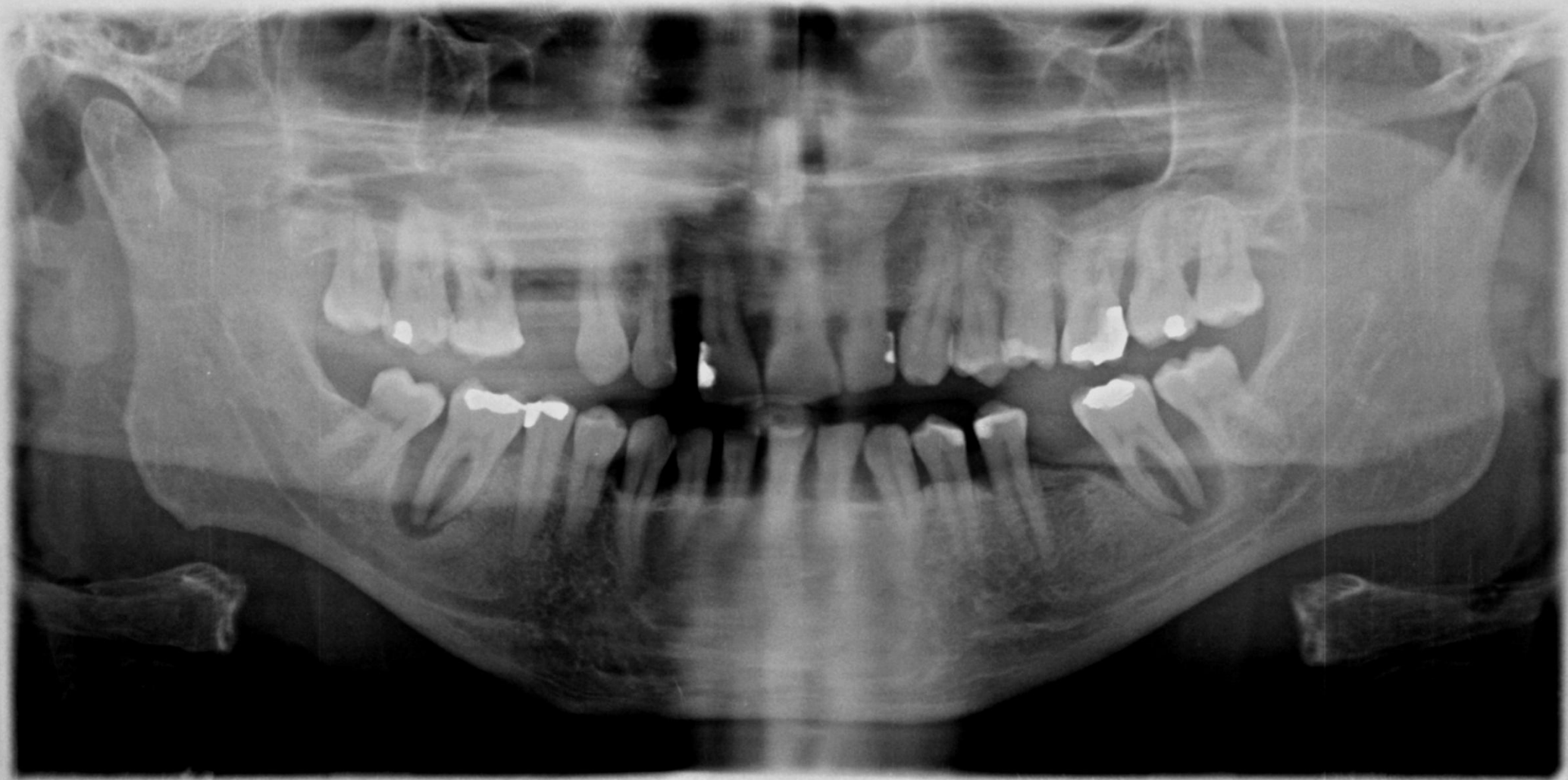


# Gingivitis





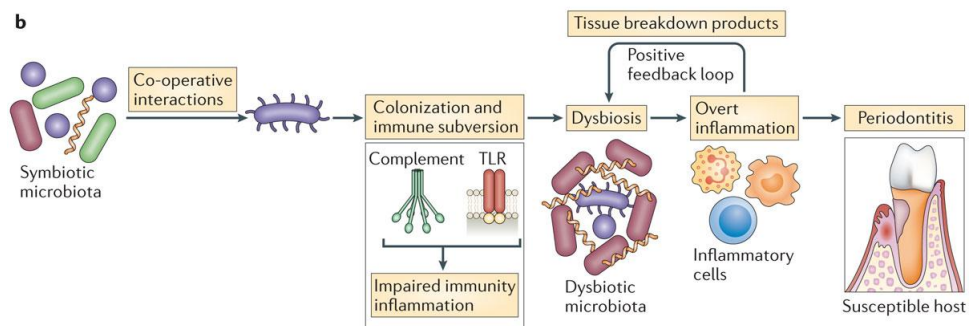
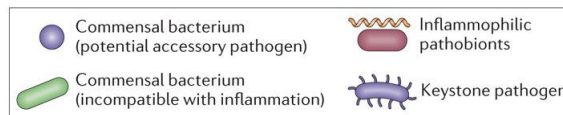
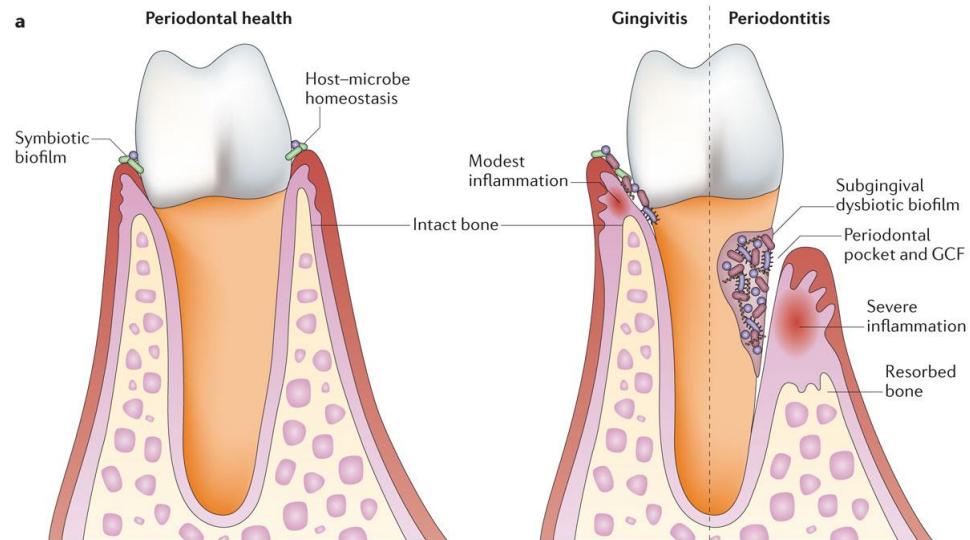












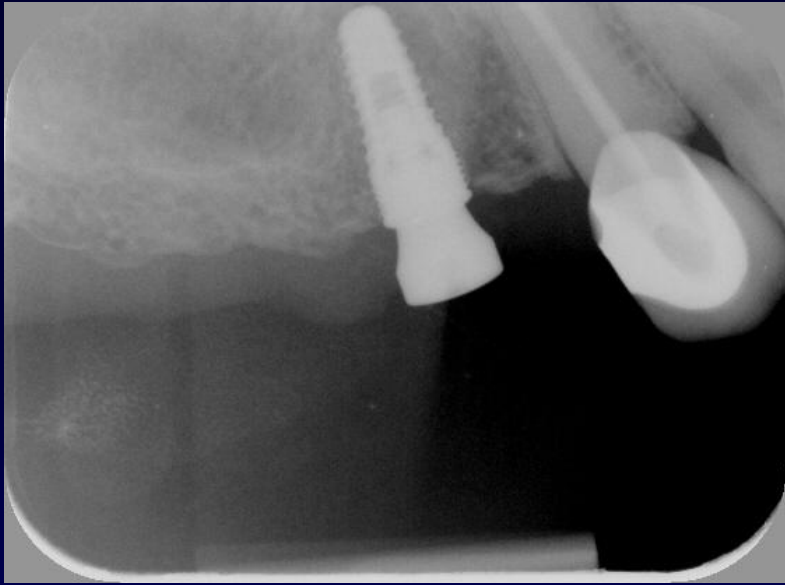
Nature Reviews | Immunology

Periodontitis: from microbial immune subversion to systemic inflammation

[George Hajishengallis](#)

Nature Reviews Immunology 15, 30–44 (2015) doi:10.1038/nri3785





# IMPLANTÁTUM







