

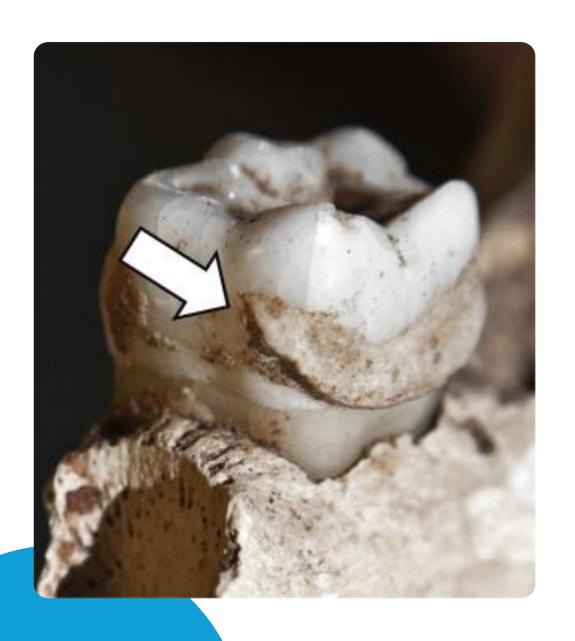
Molars	Premolars	Incisors and canines
O. Missing or cannot be coded I. Unworn to polished or small facets (no dentin exposure). Z. Moderate cusp removal (hlunting). Thinly enamelled teeth (human deciduous molars, himpanzee molars) may show cusp tip dentin but human permanent molars show no more than	Missing or cannot be coded     Unworn to polished or small facets (no dentin exposure)     Moderate cusp removal     (blunting)	Missing or cannot be coded     Unworn to polished or small facets (no dentin exposure)     Point or hairline of dentin exposure
one or two pinpoint exposures 3. Full cusp removal and/or some dentin exposure, pinpoint to moderate 4. Several large dentin exposures, still discrete 5. Two dentinal areas coalesced	3. Full cusp removal and/or moderate dentin patches 4. At least one large dentin exposure on one cusp 5. Two large dentin areas (may	Dentin line of distinct thickness     Moderate dentin exposure no longer resembling a line     Large dentin area with
<ol><li>Three dentinal areas coalesced, or four coalesced with enamel island</li></ol>	oe sugnt coalescence) 6. Dentinal areas coalesced, enamel rim still complete	6. Large dentin area with enamel rim lost on one side
7. Dentin exposed on entire surface, enamel rim largely intact 8. Severe loss of crown height, breakdown of enamel rim; crown surface	7. Full dentin exposure, loss of rim on at least one side 8. Severe loss of crown height; crown surface takes on shape	or very turn enames only 7. Enamel rim lost on two sides or small remnants of enamel remain 8. Complete loss of crown, no enamel remaining; crown surface

## 1. Dental wear (Smith 1984)









#### 2. Calculus

- Presence / absence
- Severity: light, moderate & heavy
- Location: which tooth, which surface, crown & roots
- Sampling (next lab session)

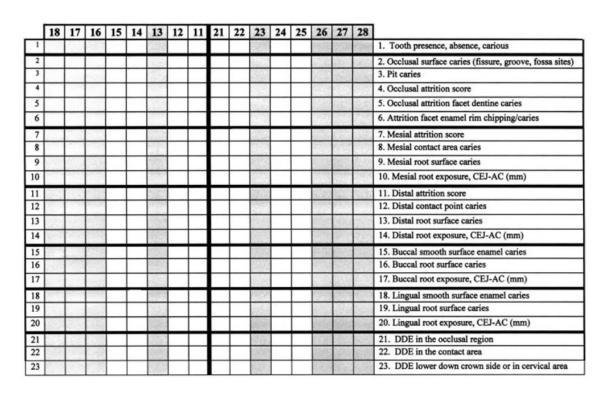




- Frequency
- 1. per type of tooth
- 2. per individual (difference regarding age/sex)



### 3. Dental Caries (Hillson 2001)



- Presence / absence
- size: measure the hole
- Location: which tooth, which surface, crown & roots

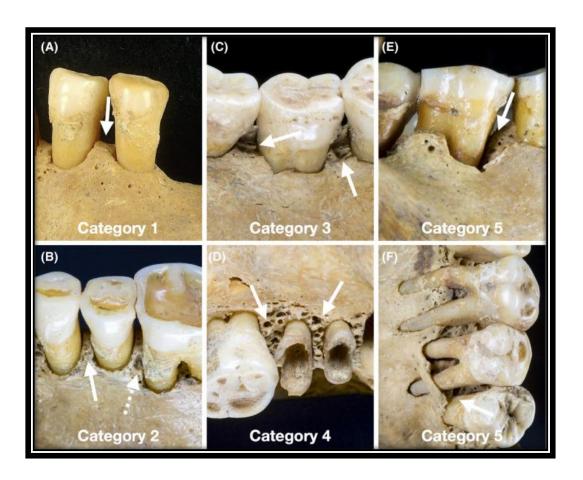


- Frequency
- 1. per type of tooth
- 2. per individual (difference regarding age/sex)





#### 4. Periodontal diseases (Bertl et al. 2020)



•<u>Category 0</u>: "Unrecordable"—tooth on either side of the septum was lost antemortem or the septum was damaged postmortem.

•<u>Category 1</u>: "Healthy"—Characteristic shape of the septum for its region and no foramina or grooves interrupted the cortical surface.

•<u>Category 2</u>: "Healthy/Gingivitis": Characteristic shape of the septum for its region, but the cortical surface shows a range from many small foramina and/or shallow grooves to larger foramina and/or prominent grooves.

•Category 3: "Acute periodontitis"—The septum shows a breakdown of contour with bone loss with a sharp and ragged texture.

•<u>Category 4</u>: "Quiescent periodontitis"—The septum shows a breakdown of contour with bone loss, but the surface shows a porous or smooth honeycomb effect with all defects rounded.

•<u>Category 5</u>: "Aggressive periodontitis"—Presence of a deep intra-bony defect with a depth of ≥3 mm either mesio-distally or bucco-lingually inclined.



What was the stress indicator on teeth?



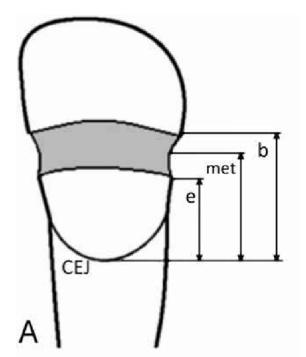




# 5. Enamel Hypoplasia (Goodman & Rose 1990)

- Spot the lines
- Measure distance between the LEH and the cementoenamel junction (CEJ) to <u>reconstruct</u>

chronologies of stressful events





	n equations from Goodman and Rose (1990)
Tooth type	Formula <sup>a</sup>
Maxillary teeth	
I1	Age (in years) = $-(0.454 \times H) + 4.5$
I2	Age (in years) = $-(0.402 \times H) + 4.5$
C	Age (in years) = $-(0.625 \times H) + 6.0$
P3	Age (in years) = $-(0.494 \times H) + 6.0$
P4	Age (in years) = $-(0.467 \times H) + 6.0$
M1	Age (in years) = $-(0.448 \times H) + 3.5$
M2	Age (in years) = $-(0.625 \times H) + 7.5$
Mandibular teeth	
I1	Age (in years) = $-(0.460 \times H) + 4.0$
12	Age (in years) = $-(0.417 \times H) + 4.0$
C	Age (in years) = $-(0.588 \times H) + 6.5$
P3	Age (in years) = $-(0.641 \times H) + 6.0$
P4	Age (in years) = $-(0.641 \times H) + 7.0$
M1	Age (in years) = $-(0.449 \times H) + 3.5$
M2	Age (in years) = $-(0.580 \times H) + 7.0$
<sup>a</sup> Where H equals th	ne distance between LEH and the CEJ in



#### Indicators of oral health & stress

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