

**Supplement Table S1:** Detailed Distribution of teeth in the five categories.

|            |                            |  | All teeth  | Age Group (I) | Age Group (II) | Age Group (III) |
|------------|----------------------------|--|------------|---------------|----------------|-----------------|
| Category 1 | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically healthy    |  |            |               |                |                 |
|            | μCT healthy                |  | 19 (10.2%) | 17 (53.1%)    | 0 (0.0 %)      | 2 (2.4%)        |
| Category 2 | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically healthy    |  |            |               |                |                 |
|            | μCT suspicious             |  | 26 (30.5%) | 10 (71.4%)    | 6 (16.7%)      | 9 (25.7%)       |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically healthy    |  |            |               |                |                 |
|            | μCT moderate               |  | 30 (35.3%) | 4 (28.6%)     | 8 (22.2%)      | 18 (51.4%)      |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically suspicious |  |            |               |                |                 |
|            | μCT healthy                |  | 2 (2.4%)   | 0 (0.0 %)     | 2 (5.5%)       | 0 (0.0 %)       |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically suspicious |  |            |               |                |                 |
|            | μCT suspicious             |  | 6 (7.1%)   | 0 (0.0 %)     | 6 (16.7%)      | 1 (2.9%)        |
| Category 3 | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically suspicious |  |            |               |                |                 |
|            | μCT moderate               |  | 20 (23.5%) | 0 (0.0 %)     | 13 (36.1%)     | 7 (20.0%)       |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically moderate   |  |            |               |                |                 |
|            | μCT suspicious             |  | 1 (1.2%)   | 0 (0.0 %)     | 1 (2.8%)       | 0 (0.0 %)       |
|            |                            |  | 85 (100%)  | 14 (100%)     | 36 (100%)      | 35 (100%)       |
| Category 3 | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically moderate   |  |            |               |                |                 |
|            | μCT moderate               |  | 17 (68.0%) | 0 (0.0 %)     | 10 (62.5%)     | 7 (77.8%)       |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically moderate   |  |            |               |                |                 |
|            | μCT severe                 |  | 3 (12.0%)  | 0 (0.0 %)     | 2 (12.5%)      | 1 (11.1%)       |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically severe     |  |            |               |                |                 |
| Category 3 | μCT moderate               |  | 1 (4.0%)   | 0 (0.0 %)     | 1 (6.25%)      | 0 (0.0 %)       |
|            | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically severe     |  |            |               |                |                 |
|            | μCT severe                 |  | 1 (4.0%)   | 0 (0.0 %)     | 1 (6.25%)      | 0 (0.0 %)       |
| Category 3 | radiographically healthy   |  |            |               |                |                 |
|            | macroscopically suspicious |  |            |               |                |                 |
|            | μCT severe                 |  | 3 (12.0%)  | 0 (0.0 %)     | 2 (12.5%)      | 1 (11.1%)       |
|            |                            |  | 25 (100%)  | 0 (0.0 %)     | 16 (100%)      | 9 (100%)        |

|            |  |  |           |           |           |           |
|------------|--|--|-----------|-----------|-----------|-----------|
| Category 4 | radiographically<br>macroscopically<br>μCT | suspicious<br>healthy<br>suspicious    | 1 (3.7%)  | 1 (100%)  | 0 (0.0 %) | 0 (0.0 %) |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>healthy<br>moderate      | 6 (22.2%) | 0 (0.0 %) | 3 (33.3%) | 3 (17.6%) |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>suspicious<br>healthy    | 1 (3.7%)  | 0 (0.0 %) | 0 (0.0 %) | 1 (5.9%)  |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>suspicious<br>suspicious | 1 (3.7%)  | 0 (0.0 %) | 0 (0.0 %) | 1 (5.9%)  |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>suspicious<br>moderate   | 6 (22.2%) | 0 (0.0 %) | 5 (55.6%) | 1 (5.9%)  |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>moderate<br>moderate     | 8 (29.7%) | 0 (0.0 %) | 1 (11.1%) | 7 (41.2%) |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | moderate<br>moderate<br>moderate       | 4 (14.8%) | 0 (0.0 %) | 0 (0.0 %) | 4 (23.5%) |
|            |  |  | 27 (100%) | 1 (100%)  | 9 (100%)  | 17 (100%) |
| Category 5 | radiographically<br>macroscopically<br>μCT | suspicious<br>suspicious<br>severe     | 5 (16.7%) | 0 (0.0 %) | 3 (33.3%) | 2 (9.5%)  |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>moderate<br>severe       | 5 (16.7%) | 0 (0.0 %) | 4 (44.5%) | 1 (4.8%)  |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>severe<br>moderate       | 1 (3.3%)  | 0 (0.0 %) | 1 (11.1%) | 0 (0.0 %) |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | suspicious<br>severe<br>severe         | 2 (6.7%)  | 0 (0.0 %) | 1 (11.1%) | 1 (4.8%)  |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | moderate<br>moderate<br>severe         | 5 (16.7%) | 0 (0.0 %) | 0 (0.0 %) | 5 (23.8%) |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically<br>μCT | moderate<br>severe<br>moderate         | 4 (13.2%) | 0 (0.0 %) | 0 (0.0 %) | 4 (19.0%) |
|            |  |  |           |           |           |           |
|            | radiographically<br>macroscopically        | moderate<br>severe                     | 5 (16.7%) | 0 (0.0 %) | 0 (0.0 %) | 5 (23.8%) |

|  |                  |          |           |           |           |           |
|--|------------------|----------|-----------|-----------|-----------|-----------|
|  | μCT              | severe   |           |           |           |           |
|  |                  |          |           |           |           |           |
|  | radiographically | severe   | 1 (3.3%)  | 0 (0.0 %) | 0 (0.0 %) | 1 (4.8%)  |
|  | macroscopically  | severe   |           |           |           |           |
|  | μCT              | moderate |           |           |           |           |
|  |                  |          |           |           |           |           |
|  | radiographically | severe   | 2 (6.7%)  | 0 (0.0 %) | 0 (0.0 %) | 2 (9.5%)  |
|  | macroscopically  | severe   |           |           |           |           |
|  | μCT              | severe   |           |           |           |           |
|  |                  |          | 30 (100%) | 0 (0.0 %) | 9 (100%)  | 21 (100%) |

**Supplement Table S2:** Detailed categorisation of histologically examined teeth.

| <b>Tooth<br/>(n=18)</b> | <b>Age<br/>Group</b> | <b>Clinical assessment*</b> | <b>Category</b> | <b>Radiographic<br/>assessment</b> | <b>Macroscopic<br/>assessment</b> | <b>μCT<br/>assessment</b> | <b>Stereomicroscopic<br/>assessment</b> | <b>Histologic<br/>assessment</b> |
|-------------------------|----------------------|-----------------------------|-----------------|------------------------------------|-----------------------------------|---------------------------|---|----------------------------------|
| 7_101                   | (I)                  | healthy                     | 1               | healthy                            | healthy                           | healthy                   | suspicious                              | suspicious                       |
| 12_403                  | (I)                  | healthy                     | 1 / '0'         | healthy                            | healthy                           | healthy                   | healthy                                 | healthy                          |
| 15_301                  | (I)                  | healthy                     | 1 / '0'         | healthy                            | healthy                           | healthy                   | healthy                                 | healthy                          |
| 19_203                  | (I)                  | healthy                     | 1 / '0'         | healthy                            | healthy                           | healthy                   | healthy                                 | healthy                          |
| 6_202                   | (II)                 | EOTRH                       | 2               | healthy                            | suspicious                        | suspicious                | suspicious                              | suspicious                       |
| 8_301                   | (II)                 | suspicious                  | -               | healthy                            | healthy                           | -                         | healthy                                 | suspicious                       |
| 11_202                  | (II)                 | suspicious                  | 4               | suspicious                         | healthy                           | moderate                  | healthy                                 | moderate                         |
| 11_402                  | (II)                 | suspicious                  | 4               | suspicious                         | moderate                          | moderate                  | healthy                                 | moderate                         |
| 16_102                  | (II)                 | healthy                     | -               | healthy                            | healthy                           | -                         | suspicious                              | healthy                          |
| 3_302                   | (III)                | suspicious                  | 2               | healthy                            | healthy                           | moderate                  | suspicious                              | suspicious                       |
| 9_401                   | (III)                | suspicious                  | 4               | suspicious                         | suspicious                        | moderate                  | healthy                                 | moderate                         |
| 10_101                  | (III)                | EOTRH                       | 3               | healthy                            | moderate                          | moderate                  | moderate                                | severe                           |
| 10_202                  | (III)                |                             | 5               | moderate                           | severe                            | severe                    | moderate                                | moderate                         |
| 14_102                  | (III)                | EOTRH                       | 5               | moderate                           | moderate                          | severe                    | moderate                                | moderate                         |
| 14_202                  | (III)                |                             | 5               | moderate                           | moderate                          | severe                    | severe                                  | severe                           |
| 14_402                  | (III)                |                             | 5               | moderate                           | severe                            | severe                    | severe                                  | severe                           |
| 18_103                  | (III)                | EOTRH                       | 5               | moderate                           | severe                            | moderate                  | severe                                  | severe                           |
| 18_203                  | (III)                |                             | 5               | moderate                           | severe                            | severe                    | severe                                  | severe                           |

\* The clinical scoring was based on findings of the whole incisor region, not on a single tooth basis.