

# DENTAL AGE ASSESSMENT PROCEDURES

## CHILDREN

(Birth to Puberty)

Living or Deceased

Developmental Radiographs

Moorrees, Fanning, & Hunt, 1963  
Demirjian et. al., 1976  
(use population specific data)

## ADOLESCENTS

(Puberty to approx. Age 20)

Living or Deceased

Early Adolescence

Late Adolescence

Developmental Radiographs

Developmental Radiographs

Moorrees, Fanning, & Hunt, 1963  
Demirjian et. al., 1976  
Mincer et. al., 1993  
(use population specific data)

Mincer et. al., 1993  
(use population specific data)

## ADULTS

Living

Deceased

Morphological and/or Radiographs

Morphological and/or Radiographs

Post-Formation Changes  
(Extraction or Extraction & Sectioning)

Kvaal et. al., 1995  
Cameriere et. al., 2004  
[Pulp/Tooth Ratio]

Kvaal et. al., 1995  
Cameriere et. al., 2004 or 2007  
[Pulp/Tooth Ratio]

Maples, 1978  
Johanson, 1971 (Sectioning)  
Lamendin et al., 1992  
Prince & Ubelaker, 2002  
Bang & Ramm, 1970

## Tooth Development and Eruption Charts and Atlases

(Before birth to young adulthood)

Living or Deceased

Ubelaker, 1989  
London Atlas, AlQahtani et al., 2010/2014  
London Atlas Interactive Application, 2014 app  
(app currently undergoing revision)

## Biochemical Techniques

(All Age Groups)

Living or Deceased

Aspartic Acid Racemization  
Radiocarbon (<sup>14</sup>C)

[require extraction and destruction of at least one tooth]

