

# Permanent teeth

**Permanent teeth** or **adult teeth** are the second set of [teeth](#) formed in [diphyodont mammals](#). In humans and old world simians, there are thirty-two permanent teeth, consisting of six [maxillary](#) and six [mandibular molars](#), four maxillary and four mandibular premolars, two maxillary and two mandibular [canines](#), four maxillary and four mandibular [incisors](#).<sup>[1]</sup>

## Timeline

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The first permanent tooth usually appears in the [mouth](#) at around 5-6 years of age, and the mouth will then be in a transition time with both primary (or [deciduous dentition](#)) teeth and permanent teeth during the mixed dentition period until the last primary tooth is lost or shed.<sup>[2]</sup>

The first of the permanent teeth to erupt are the permanent first molars, right behind the last 'milk' molars of the primary dentition. These first permanent molars are important for the correct development of a permanent dentition. Up to thirteen years of age, 28 of the 32 permanent teeth will appear.

The full permanent dentition is completed much later during the permanent dentition period.<sup>[3]</sup> The four last permanent teeth, the third molars, usually appear between the ages of 17 and 21 years; they are considered [wisdom teeth](#).<sup>[4]</sup>

## Pathology

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It is possible to have extra, or "supernumerary", teeth. This phenomenon is called [hyperdontia](#) and is often erroneously referred to as "a third set of teeth." These teeth may erupt into the mouth or remain impacted in the bone. Hyperdontia is often associated with syndromes such as [cleft lip and cleft palate](#), [tricho-rhino-phalangeal syndrome](#), [cleidocranial dysplasia](#), and [Gardner's syndrome](#).<sup>[5]</sup>

## See also

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- [Deciduous dentition](#)
- [Tooth development](#)
- [Tooth eruption](#)
- [Teething](#)

- Dentition

## References

1. "Tooth eruption: The permanent teeth" ([http://web.archive.org/web/20160715044224/http://www.ada.org/~media/ADA/Publications/Files/patient\\_58.ashx](http://web.archive.org/web/20160715044224/http://www.ada.org/~media/ADA/Publications/Files/patient_58.ashx)) . American Dental Association. Archived from the original ([http://ada.org/sections/scienceAndResearch/pdfs/patient\\_58.pdf](http://ada.org/sections/scienceAndResearch/pdfs/patient_58.pdf)) (PDF) on July 15, 2016.
2. "Permanent tooth eruption chart" ([http://www.mouthhealthy.org/~media/MouthHealthy/Files/Kids\\_Section/ADAPermanentTeethDev\\_Eng.ashx](http://www.mouthhealthy.org/~media/MouthHealthy/Files/Kids_Section/ADAPermanentTeethDev_Eng.ashx)) . American Dental Association.
3. Bath-Balogh; Fehrenbach (2011). *Illustrated Dental Embryology, Histology, and Anatomy*. Elsevier. pp. 191–92.
4. "Tooth eruption: The permanent teeth" ([http://web.archive.org/web/20120627182032/http://ada.org/sections/scienceAndResearch/pdfs/patient\\_58.pdf](http://web.archive.org/web/20120627182032/http://ada.org/sections/scienceAndResearch/pdfs/patient_58.pdf)) (PDF). American Dental Association. Archived from the original ([http://ada.org/sections/scienceAndResearch/pdfs/patient\\_58.pdf](http://ada.org/sections/scienceAndResearch/pdfs/patient_58.pdf)) (PDF) on June 27, 2012.
5. Jordan, Joseph A. Regezi & James J. Sciubba; Richard C. K. (2003). *Oral pathology : clinical pathologic correlations* (4th ed.). St. Louis: Saunders. ISBN 978-0721698052.

- Ash, Major M. and Stanley J. Nelson, 2003. *Wheeler's Dental Anatomy, Physiology, and Occlusion*. 8th edition.

### Adult teeth



Adult mouth showing full set of permanent teeth

### Details

#### Identifiers

#### Latin

*dentes permanentes*

#### TA98

A05.1.03.077 (<https://ifaa.unifr.ch/Public/EntryPage/TA98%20Tree/Entity%20TA98%20EN/05.1.03.077%20Entity%20TA98%20EN.htm>)

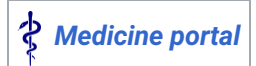
#### TA2

913 (<https://ta2viewer.openanatomy.org/?id=913>)

#### FMA

75152 (<https://biportal.bioontology.org/ontologies/FMA/?p=classes&conceptid=http%3A%2F%2Fpurl.org%2Fsig%2Font%2Ffma%2Ffma75152>)

Anatomical terminology



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## External links

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**Portal:**  [Anatomy](#)