

情報・システム研究機構 データサイエンス共同利用基盤施設 ライフサイエンス統合データベースセンター

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BioMedicalDataExplorer

Prototype

list anatomical structures related to Micrognathia, together their FMA ids

Talked to pubdictionaries.org

It seems that there are no direct FMA anatomical structure identifiers (FMA IDs) associated with "Micrognathia" itself. However, micrognathia refers to a condition where the jaw, particularly the mandible, is undersized. Here are anatomical structures commonly related to this condition, along with their possible FMA IDs:

1. **Mandible (Lower Jaw)** - FMA: 52748
2. **Temporomandibular Joint** - FMA: 54832
3. **Maxilla (Upper Jaw)** - FMA: 9711
4. **Teeth** - FMA: 75152 (for a general set of t ↓)
5. **Masticatory Muscles** - FMA: 75268 (for muscles related to jaw movement)
6. **Chin (Mental protuberance)** - FMA: 52839

Micrognathia primarily affects the mandible, leading to a small jaw and related facial structure issues. Let me know if you need further details on any specific part.

show me a 3D model which includes all of them

Talked to lifesciencedb.jp

You can view a 3D model that includes the mandible, temporomandibular joint, maxilla, teeth, masticatory muscles, and chin at the following link:

3D Anatomical Model

This model will allow you to explore these anatomical structures in relation to micrognathia.

Give me the HP id of Micrognathia

Talked to pubdictionaries.org

The Human Phenotype Ontology (HPO) ID for **Micrognathia** is **HP:0000347**.

get the whole list of associated OMIM ids, and count them.

Talked to ejos2dn5ijvmdc7moxogw2v43q0jwxnm.lambda-url.us-east-1.on.aws

The list of OMIM IDs associated with **Micrognathia (HP:0000347)** contains **469 entries**. Here are a few examples from the list:

- OMIM: 117650
- OMIM: 615546
- OMIM: 618089
- OMIM: 611913
- OMIM: 614857

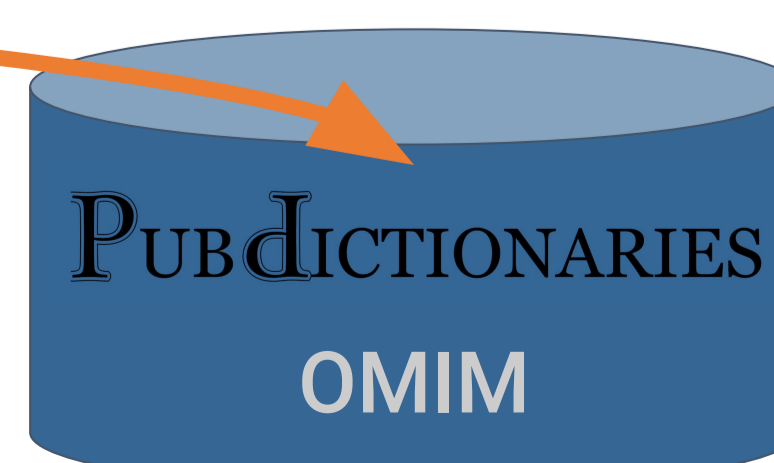
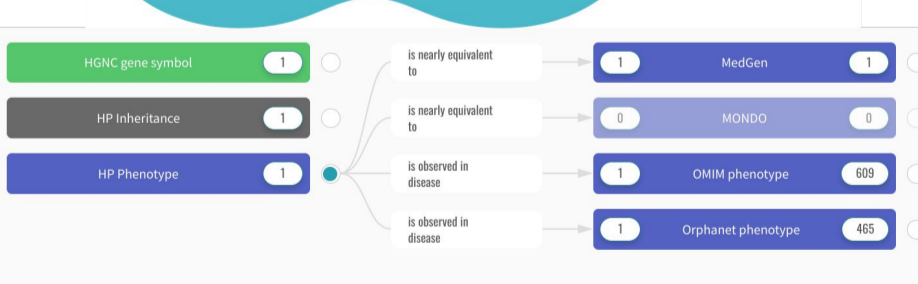
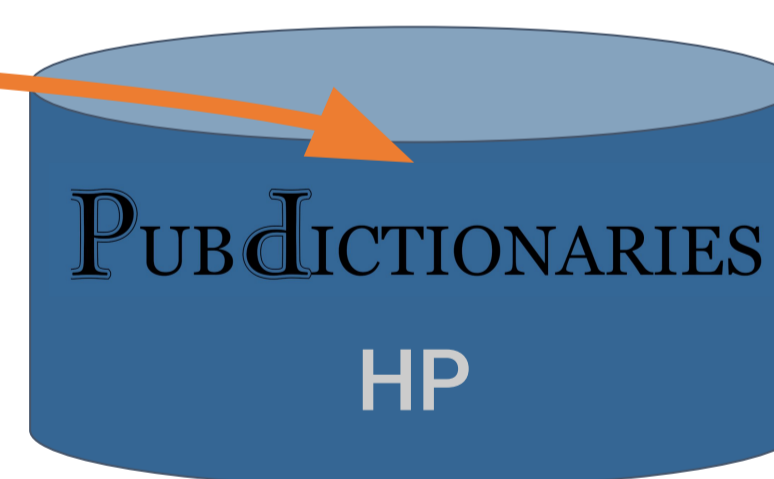
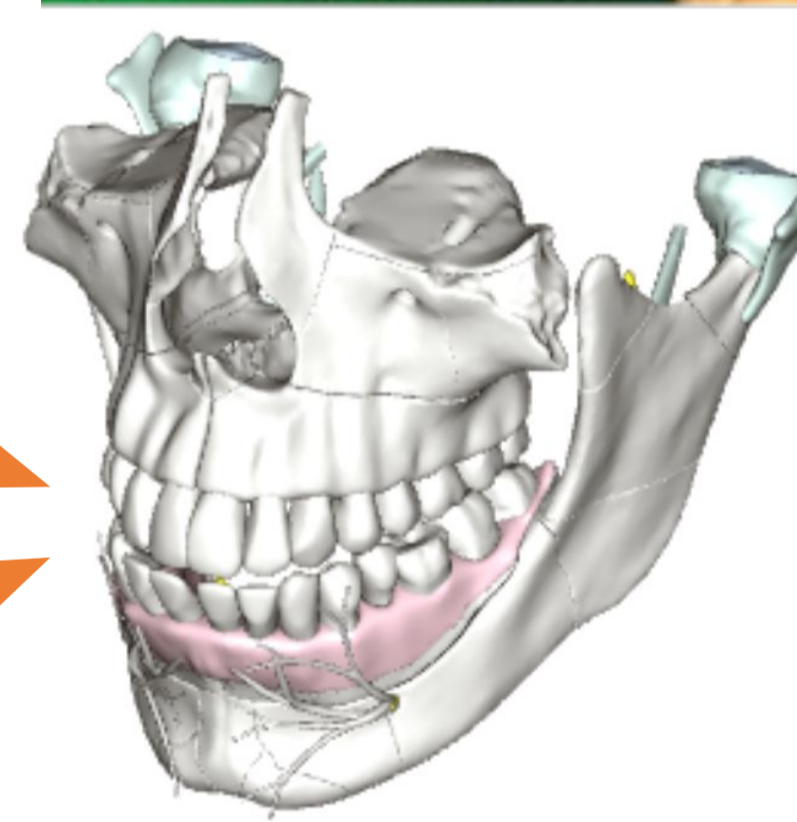
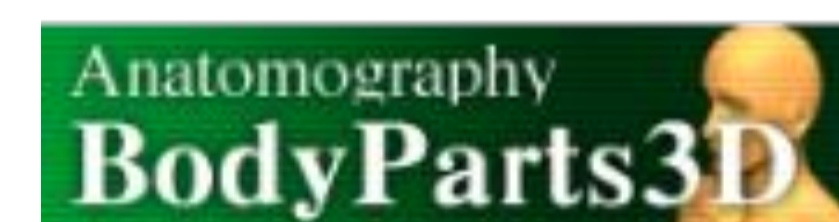
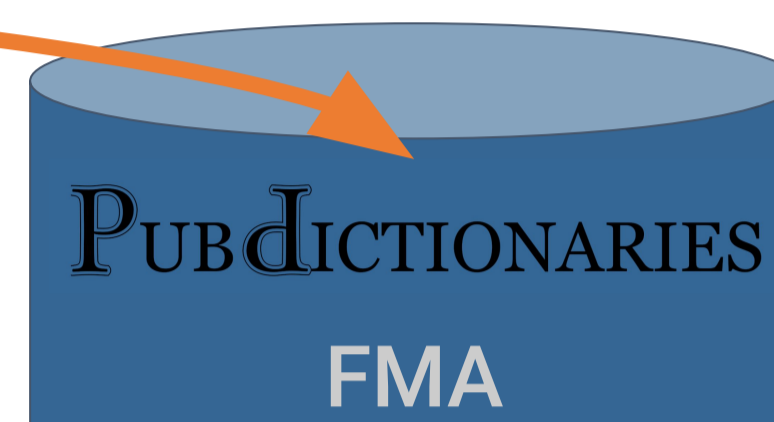
Let me know if you would like more information on any specific OMIM entry or the full list.

show me the name of the 5 OMIM ids

Talked to pubdictionaries.org

Here are the names of the 5 OMIM IDs associated with micrognathia:

1. **OMIM: 117650** - Cerebrocostomandibular Syndrome (CCMS), Rib Gap Defects with Micrognathia
2. **OMIM: 615546** - Van Maldergem Syndrome 2 (VMLDS2)
3. **OMIM: 618089** - Intellectual Developmental Disorder with Dysmorphic Facies and Behavioral Abnormalities (IDDFBA)
4. **OMIM: 611913** - Chromosome 16p11.2 Deletion Syndrome (593-KB), Autism Susceptibility 14A (AUTS14A)
5. **OMIM: 614857** - Methylmalonic Aciduria and Homocystinuria, cblJ Type (MAHJ)



ChatGPT 4o

give me the FMA ids of Mandible (Lower Jaw), Temporomandibular Joint, Maxilla (Upper Jaw), Teeth, Masticatory Muscles, Chin (Mental protuberance)

Here are the FMA IDs for the anatomical structures you requested:

1. **Mandible (Lower Jaw):** FMA 52748
2. **Temporomandibular Joint:** FMA 54832
3. **Maxilla (Upper Jaw):** FMA 9711
4. **Teeth:** FMA 75150 **X Hallucination**
5. **Masticatory Muscles:** FMA 75301 **X Hallucination**
6. **Chin (Mental Protuberance):** FMA 52829 **X Hallucination**

Let me know if you need further details on a ↓ of these!

show me an image that includes all of them



Here is the anatomical illustration you requested ↓, showcasing the mandible, maxilla, teeth, temporomandibular joint, chin, and masticatory muscles. Let me know if you'd like any adjustments or additional details!

Give me the HP id of Micrognathia

 The Human Phenotype Ontology (HPO) ID for **Micrognathia** is **HP:0000347**.

Let me know if you need further information!

get the whole list of OMIM IDs associated to it, and count them

Micrognathia (HP:0000347) is associated with ↓ eral genetic disorders in the OMIM database. Some examples include syndromes like Pierre Robin Syndrome (OMIM 261800), Neu-Laxova Syndrome (OMIM 256520), Wolf-Hirschhorn Syndrome (OMIM 194190), and Cornelia de Lange Syndrome (OMIM 122470). These syndromes often involve a range of features, such as growth restrictions, craniofacial anomalies, and in some cases, intellectual disabilities.

The list of OMIM entries associated with micrognathia includes numerous conditions, many of which have multiple genetic and phenotypic correlations. By cross-referencing various sources, there are approximately 50 to 60 specific OMIM IDs associated with this phenotype (Maayan Lab) (Radiology Key).

BioMedicalDataExplorer (Prototype)

- Customized GPT
- A showcase of using GPTs as user-friendly interface for database access