

*
QM
25
.B319
Sec. II
Rls. 65-74
1954

A STEREOSCOPIC ATLAS
of
HUMAN ANATOMY

DAVID L. BASSETT, M.D.

SECTION II
HEAD AND NECK

DISTRIBUTED BY
THE WILLIAMS & WILKINS CO.
BALTIMORE 2, MD.

R

R322-64
E602
2. 65-74

65-74

3591259 文书库

R322-64

2.2

BDL

2322-64

E602

2.65-74

A STEREOSCOPIC ATLAS
of
HUMAN ANATOMY

by

DAVID L. BASSETT, M. D.

Associate Professor of Anatomy
Stanford University, California

SECTION II

HEAD and NECK

REELS 65-74



Color Photographs

by

WM. B. GRUBER

Published by

SAWYER'S INC.

Portland, Oregon

*Copyright 1954
by
Sawyer's Inc.
Portland, Oregon*

All rights reserved under the International
and Pan American Conventions.



Published on the same day in the Dominion
of Canada by Canadian Camera Specialties,
Ltd., Vancouver, B. C., Canada.

Published on the same day in Bermuda by
The Camera Store, Hamilton, Bermuda.

Printed in U.S.A.

42433

Qm25
B319
Sec II
R665-74
1954

DISSECTION OF LEFT TEMPORAL REGION

Posterior deep temporal nerve and artery; capsule of temporomandibular joint, lateral view

The temporal muscle (1) has been reflected anteriorly. Its tendon of insertion (7) remains *in situ*, although the coronoid process to which it attached has been cut away (20).

- | | |
|---|--|
| 1. Posterior border of m. temporalis turned anteriorly | 11. Cartilago meatus acustici externi |
| 2. Ramus n. temporalis profundus posterioris (cut off) | 12. Arcus zygomaticus (cut across) |
| 3. N. temporalis profundus posterior | 13. A. temporalis superficialis (cut off) |
| 4. N. massetericus | 14. Upper pointer: Capsula articulationis mandibulae |
| 5. Upper pointer: A. masseterica | Lower pointer: Ligamentum temporomandibulare |
| Lower pointer: A. temporalis profunda posterior | 15. Rami n. auriculotemporalis |
| 6. Arcus zygomaticus (divided) | 16. N. facialis (VII) |
| 7. Tendon of m. temporalis (note impression produced by coronoid process of mandible) | 17. Glandula parotis (deep lobe) |
| 8. N. buccinatorius | 18. A. transversa faciei (cut off) |
| 9. Fossa temporalis | 19. V. facialis posterior |
| 10. A. temporalis media | 20. Upper pointer: Ramus mandibulae |
| | Lower pointer: Processus coronoideus (cut across) |

SUPERIOR



Scale—1 division=6 mm.

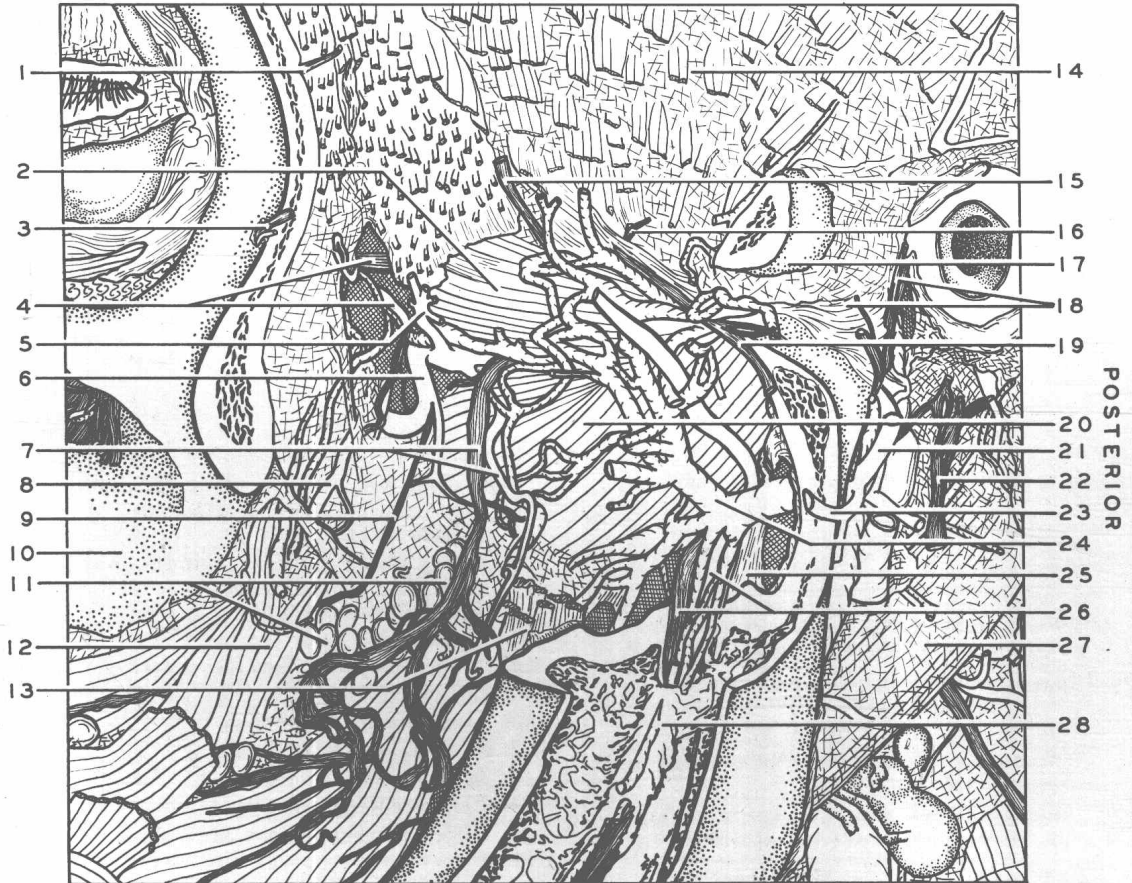
DISSECTION OF LEFT INFRATEMPORAL AND PTERYGOPALATINE FOSSAE

Blood vessels and nerves related to external pterygoid muscle, lateral view

Most of the temporal muscle has been cut away but short strands in the area of its origin (14) and a remnant of its tendon of insertion (13) remain. In addition, the ramus of the mandible has been partially cut away to reveal the inferior alveolar vessels and nerve as well as the pterygoid plexus of veins.

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Ramus zygomaticotemporalis n.
zygomatici 2. M. pterygoideus externus (superior
fascicle) 3. Ramus zygomaticofacialis n.
zygomatici 4. Upper pointer: N. maxillaris (V) in
depths of pterygopalatine fossa
Lower pointer: A. infraorbitalis 5. A. temporalis profunda anterior
(cut off) 6. A. alveolaris superior posterior 7. N. buccinatorius et a. buccinatoria 8. Buccal branch of a. alveolaris
superior posterior (uninjected) 9. Buccal filament from plexus of
nerves surrounding a. alveolaris 10. Fossa canina 11. Glandulae molares 12. M. buccinator 13. Tendon of m. temporalis (cut off) 14. Fossa temporalis | <ol style="list-style-type: none"> 15. N. temporalis profundus anterior 16. N. temporalis profundus posterior 17. Processus zygomaticus ossis
temporalis (cut off) 18. Upper pointer: N. auriculotemporalis
Lower pointer: Ligamentum
temporomandibulare 19. N. massetericus 20. M. pterygoideus externus (inferior
fascicle) 21. A. temporalis superficialis 22. N. facialis (VII) 23. A. transversa faciei 24. Plexus venosus pterygoideus 25. Ligamentum sphenomandibulare 26. Upper pointer: A. alveolaris inferior
Lower pointer: N. alveolaris inferior 27. Venter posterior m. digastrici 28. Canalis mandibulae (cortical bone
which forms wall of canal intact
in area indicated by pointer) |
|---|---|

SUPERIOR



Scale—1 division=7 mm.

DISSECTION OF LEFT INFRATEMPORAL AND PTERYGOPALATINE FOSSAE

External pterygoid muscle, lateral view

The pterygoid plexus of veins has been resected.

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Origin of m. temporalis 2. Os zygomaticum 3. N. temporalis profundus anterior (cut across) 4. N. maxillaris (V) in depths of pterygopalatine fossa 5. M. pterygoideus externus (superior fascicle) 6. A. temporalis profunda anterior (cut across) 7. N. alveolaris superior posterior 8. A. maxillaris interna 9. A. alveolaris superior posterior 10. N. buccinatorius 11. M. pterygoideus externus (inferior fascicle) 12. A. buccinatoria 13. M. pterygoideus internus 14. Tendon of m. temporalis 15. M. buccinator 16. Mandibula 17. N. temporalis profundus posterior (cut across) 18. Upper pointer: Processus zygomaticus (cut across) <li style="padding-left: 20px;">Lower pointer: Capsula articulationis mandibulae | <ol style="list-style-type: none"> 19. Meatus acusticus externus 20. N. massetericus 21. N. auriculotemporalis 22. A. temporalis profunda posterior (cut off) 23. Ramus anastomoticus n. auriculo-temporalis cum n. faciali 24. Temporofacial division of n. facialis (VII) 25. A. temporalis superficialis (cut across) 26. Cervicofacial division of n. facialis (VII) 27. Parotid branches of a. transversa faciei 28. V. facialis posterior (cut across) 29. Ligamentum sphenomandibulare 30. A. alveolaris inferior 31. N. alveolaris inferior 32. N. lingualis 33. Compact bone surrounding canalis mandibulae 34. Venter posterior m. digastrici 35. Lymphoglandulae cervicales profundae superiores |
|---|--|

SUPERIOR



Scale—1 division=7 mm.

DISSECTION OF LEFT INFRATEMPORAL AND PTERYGOPALATINE FOSSAE

*Nerve supply to external pterygoid muscle;
temporomandibular articulation, anterolateral view*

The superior fascicle of the external pterygoid muscle has been divided at its origin and lifted to expose the nerve supply to both parts of the muscle. The temporomandibular joint has been opened and the head of the mandible pulled inferiorly to expose the articular disk. The bony walls of the orbit and middle cranial fossa have been resected. More of the mandible has been removed. The mylohyoid branch (36) of the inferior alveolar nerve is shown in relation to the lingula (17) of the mandible and the sphenomandibular ligament.

1. Cut edge of bony wall of middle cranial fossa
2. Periorbita
3. Dura mater encephali et a. meningea media (anterior branch)
4. M. pterygoideus externus (superior fascicle, retracted)
5. Fossa pterygopalatina
6. N. massetericus
7. A. infraorbitalis et n. maxillaris (in background)
8. Nn. alveolares superiores posteriores
9. A. temporalis profunda anterior (cut off)
10. Branch of n. buccinatorius to m. temporalis
11. Maxilla
12. N. buccinatorius
13. Remnant of plexus venosus pterygoideus
14. Branches of n. buccinatorius to m. pterygoideus externus
15. M. pterygoideus externus (inferior fascicle)
16. Glandulae molares
17. Lingula mandibulae
18. M. pterygoideus internus
19. N. lingualis
20. M. buccinator
21. Fossa temporalis
22. Processus zygomaticus ossis temporalis
23. Superior cavity of temporomandibular joint
24. Meatus acusticus externus
25. Discus articularis
26. Inferior cavity of temporomandibular joint and capitulum [processus condyloidei] mandibulae
27. N. auriculotemporalis
28. Processus styloideus ossis temporalis (in background)
29. N. facialis (VII)
30. A. auricularis posterior
31. Lymphoglandula cervicalis profunda superior
32. Collum [processus condyloidei] mandibulae (cut across)
33. A. alveolaris inferior (cut off)
34. V. facialis posterior
35. Ligamentum sphenomandibulare (the two bands were separated by veins and areolar connective tissue)
36. N. mylohyoideus (n. alveolaris inferior cut away)
37. Venter posterior m. digastrici
38. Ramus mandibulae

SUPERIOR

POSTERIOR



Scale—1 division=6 mm.

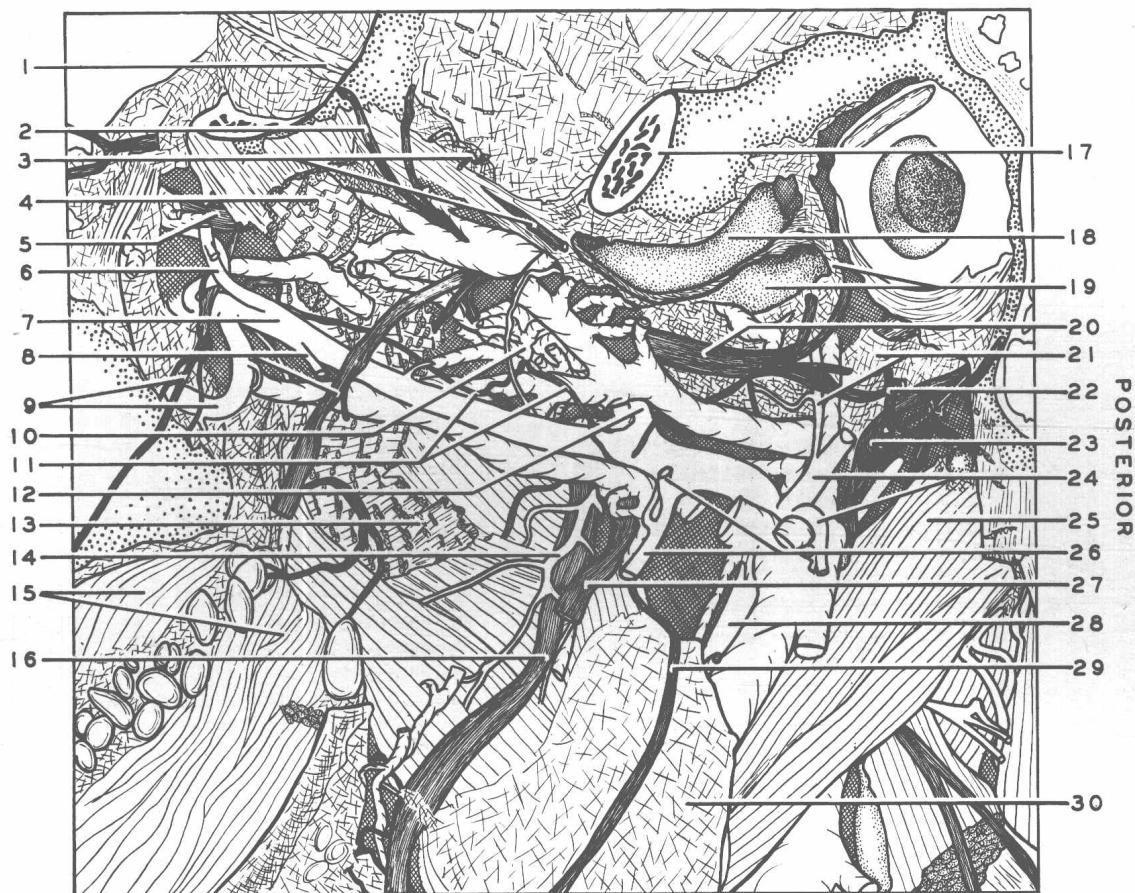
DISSECTION OF LEFT INFRATEMPORAL AND PTERYGOPALATINE FOSSAE

Internal maxillary artery and plexus of nerves; deep part of pterygoid plexus of veins, lateral view

The external pterygoid muscle has been removed except for short remnants of its origins (4,13). The mandible has been removed although its articular disk has been retained.

1. A. meningeal media in middle cranial fossa (also see 12)
2. N. temporalis profundus anterior
3. Upper pointer: N. temporalis profundus posterior
Lower pointer: N. massetericus
4. Upper area of origin of m. pterygoideus externus
5. N. maxillaris
6. A. temporalis profunda anterior
7. A. maxillaris interna
8. Upper pointer: A. buccinatoria
Lower pointer: N. buccinatorius
9. Upper pointer: Buccal branch of n. alveolaris superior posterior
Lower pointer: A. alveolaris superior posterior
10. Plexus venosus pterygoideus
11. Plexus nervosus maxillaris internus
12. A. meningeal media
13. Lower area of origin of m. pterygoideus externus
14. Ramus pterygoidei a. maxillaris internae
15. M. buccinator
16. N. lingualis
17. Processus zygomaticus ossis temporalis
18. Upper cavity of temporo-mandibular joint (pointer on discus articularis)
19. Upper pointer: Capsula articulationis mandibulae
Lower pointer: Lower cavity of temporomandibular joint
20. N. auriculotemporalis
21. Upper pointer: Processus styloideus ossis temporalis
Lower pointer: A. auricularis profunda
22. Ramus anastomoticus n. auriculo-temporalis cum n. faciali
23. N. facialis (VII)
24. Upper pointer: A. temporalis superficialis
Lower pointer: A. transversa faciei
25. Venter posterior m. digastrici
26. Upper pointer: A. temporalis profunda posterior
Lower pointer: A. alveolaris inferior
27. N. alveolaris inferior
28. A. carotis externa
29. N. mylohyoideus
30. Area of insertion of m. pterygoideus internus on medial aspect of angle of mandible

SUPERIOR



Scale—1 division=6 mm.

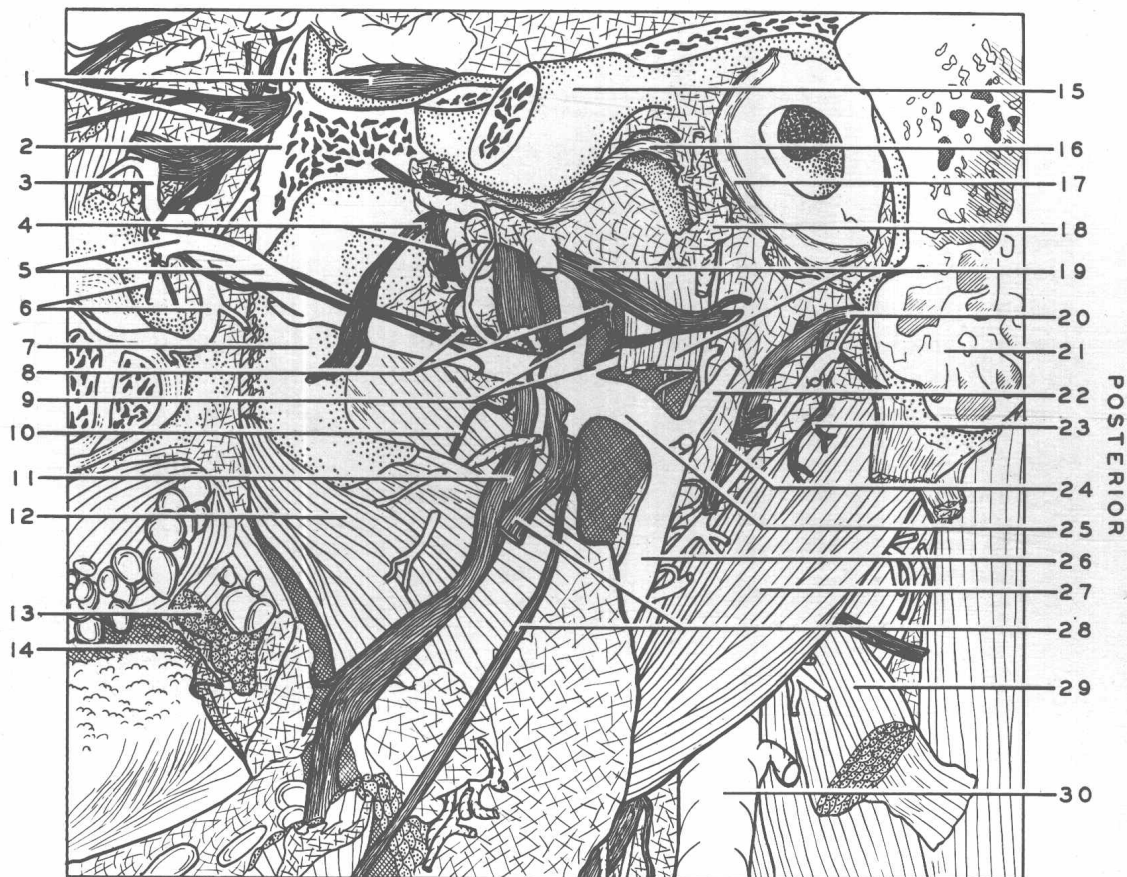
DISSECTION OF LEFT INFRATEMPORAL AND PTERYGOPALATINE FOSSAE

Internal pterygoid muscle, lateral view

The pterygoid plexus of veins and origins of the external pterygoid muscle have been removed, and the bony wall of the cranial vault resected. Branches of the mandibular nerve have been exposed in their course through the infratemporal fossa. The maxillary nerve (1) is visible as it passes through the foramen rotundum into the pterygopalatine fossa.

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Upper pointer: N. maxillaris (V)
 within sinus cavernosus Lower pointer: N. maxillaris (V)
 within fossa pterygopalatina 2. Os sphenoidale (cut across at junction of great wing and body) 3. A. infraorbitalis 4. Upper pointer: N. buccinatorius Lower pointer: N. pterygoideus externus 5. Upper pointer: A. temporalis profunda anterior Lower pointer: A. maxillaris interna 6. Upper pointer: Nn. alveolares superiores posteriores Lower pointer: A. alveolaris superior posterior 7. Lamina lateralis processus pterygoidei 8. Plexus nervosus maxillaris internus 9. Upper pointer: A. meningea media Lower pointer: A. tympanica anterior 10. N. pterygoideus internus 11. N. lingualis 12. M. pterygoideus internus | <ol style="list-style-type: none"> 13. M. buccinator (cut across) 14. Lingua 15. Processus zygomaticus ossis temporalis 16. Discus articularis mandibulae 17. Cartilago meatus acustici 18. Capsula articulationis mandibulae 19. Upper pointer: N. auriculotemporalis Lower pointer: Ligamentum sphenomandibulare (cut off) 20. N. facialis (VII) at exit from foramen stylomastoideum 21. Cellulae mastoideae 22. A. temporalis superficialis 23. Ramus digastricus n. facialis 24. Processus styloideus 25. A. maxillaris interna 26. A. carotis externa 27. Venter posterior m. digastrici 28. Upper pointer: N. alveolaris inferior Lower pointer: N. mylohyoideus 29. M. levator scapulae (cut off) 30. V. jugularis interna |
|---|--|

SUPERIOR



Scale—1 division=6 mm.

DISSECTION OF LEFT INFRATEMPORAL AND PTERYGOPALATINE FOSSAE

Cavity of temporomandibular articulation, inferolateral view

The inferior cavity of the temporomandibular joint has been fully exposed by removal of the mandible. The joint cavity on the inferior surface of the articular disk is indicated by stipple in the drawing (3) but is not clearly visible in the view. It is not coextensive with the superior joint space which overlaps the lower cavity anteriorly but does not descend as far posterior to the condyle of the mandible. The relation of the masseteric nerve (4) to the joint capsule is shown.

- | | |
|---|---|
| 1. Right pointer: Fossa mandibularis
(superior articular cavity) | 16. N. mylohyoideus |
| Left pointer: Tuberculum
articulare | 17. Area of insertion of m. pterygoideus
internus |
| 2. Discus articularis mandibulae | 18. Meatus acusticus externus |
| 3. Inferior cavity of
temporomandibular joint | 19. Cartilago meatus acustici |
| 4. N. massetericus | 20. Glandulae ceruminosae |
| 5. Ala magna ossis sphenoidalis
(cut through) | 21. Cellulae mastoideae |
| 6. N. temporalis profundus anterior | 22. Ramus auricularis n. vagi |
| 7. N. auriculotemporalis (note com-
munications between this nerve
and the internal maxillary plexus) | 23. Capsula articulationis mandibulae |
| 8. Remnant of plexus venosus
pterygoideus | 24. A. auricularis profunda |
| 9. N. buccinatorius | 25. Processus styloideus |
| 10. N. pterygoideus externus | 26. A. stylomastoidea |
| 11. N. lingualis | 27. A. temporalis superficialis |
| 12. A. temporalis profunda posterior | 28. N. facialis (VII) |
| 13. A. maxillaris interna | 29. A. transversa faciei et lympho-
glandula cervicalis profunda
superior |
| 14. Plexus nervosus maxillaris internus | 30. Tendon of m.
sternocleidomastoideus |
| 15. N. alveolaris inferior | 31. Ligamentum sphenomandibulare |
| | 32. A. auricularis posterior |
| | 33. Venter posterior m. digastrici |
| | 34. A. carotis externa |

SUPEROLATERAL

