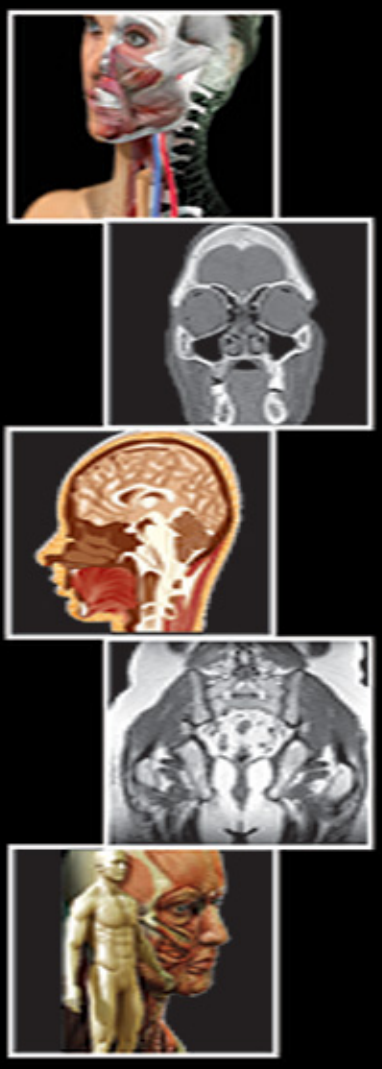
CROSS SECTIONAL ANATOMY CT & MRI



Govind Chavhan
Bhavin Jankharia

JAYPEE

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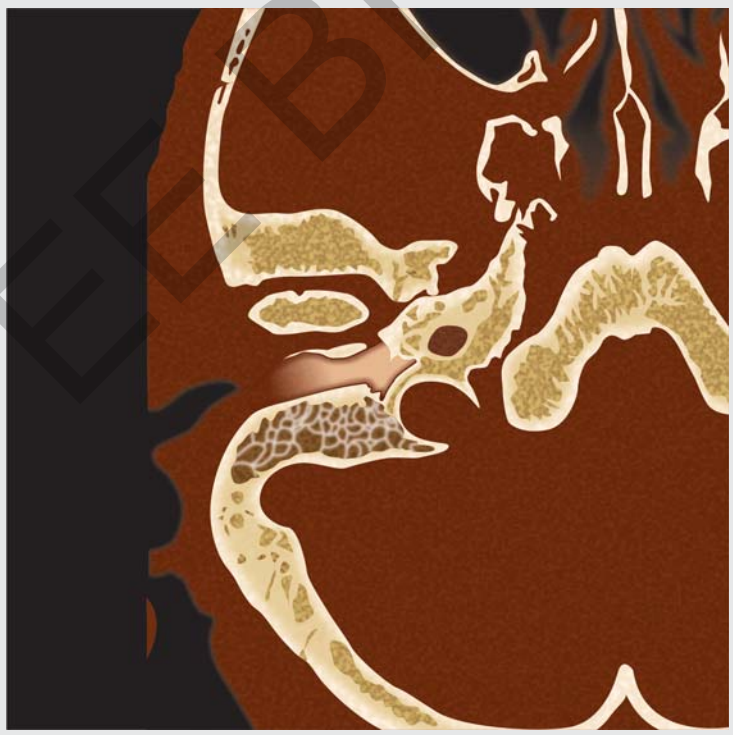
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CHAPTER 4

Temporal Bones and TM Joint



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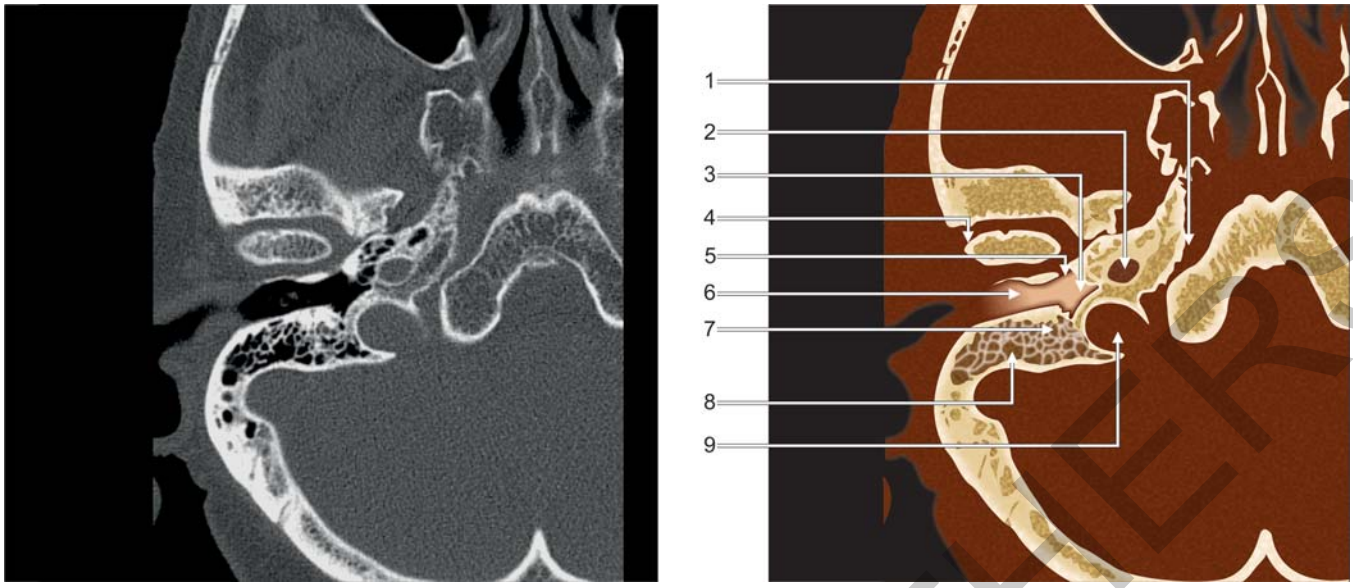


Figure 4.1

1. Petro-occipital fissure
2. Carotid canal
3. Hypotympanum
4. TM joint
5. Limbus
6. External auditory canal
7. Facial nerve canal
8. Mastoid sinus
9. Jugular fossa

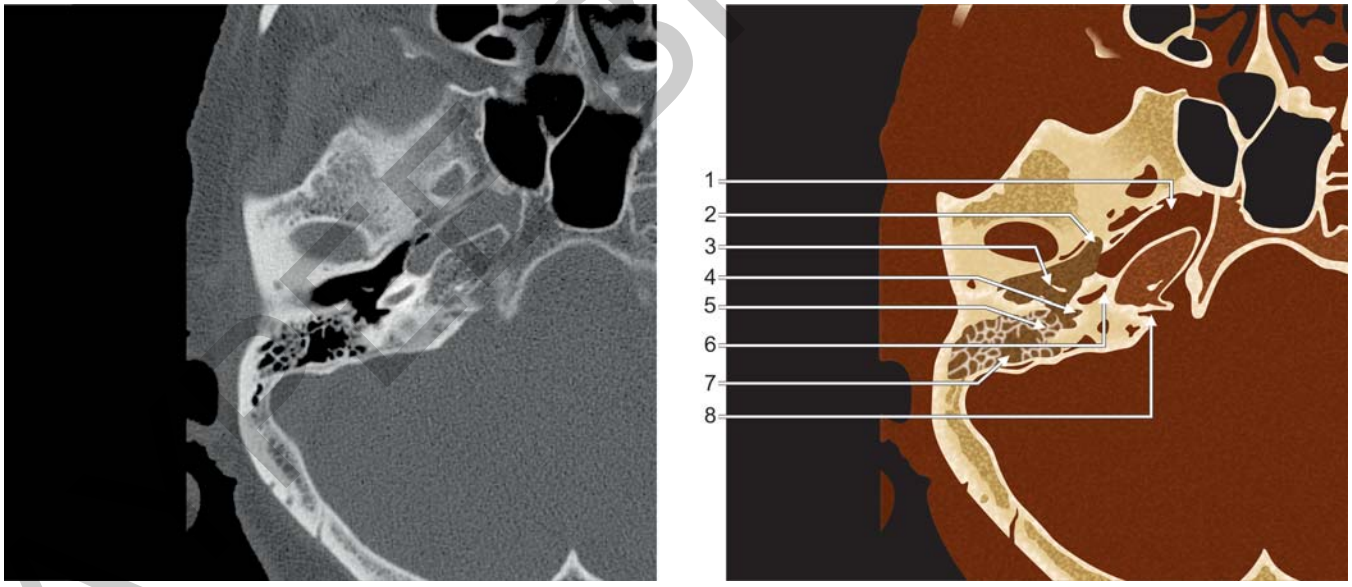


Figure 4.2

1. Carotid canal
2. Eustachian tube
3. Malleous, long process
4. Round window
5. Facial nerve
6. Basal turn of cochlea
7. Mastoid sinus
8. Cochlear aqueduct

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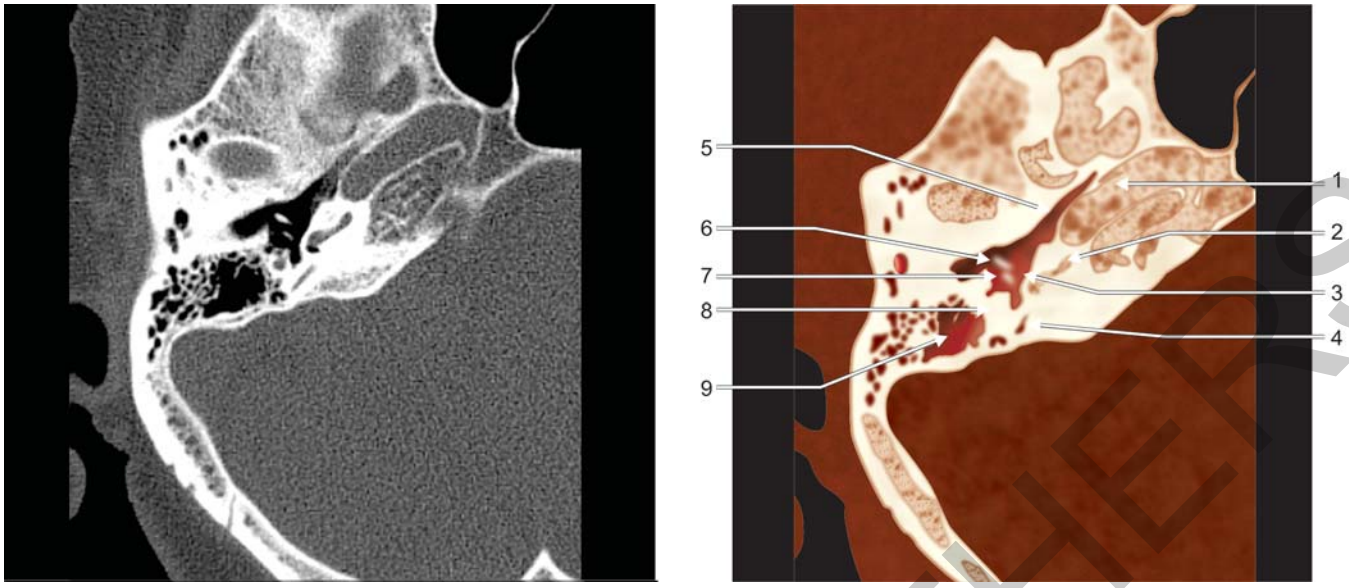


Figure 4.3

1. Carotid canal
2. Basal turn of cochlea
3. Middle ear
4. Posterior semicircular canal
5. Tensor tympani
6. Malleus, manubrium
7. Incus, long process
8. Facial nerve
9. Mastoid

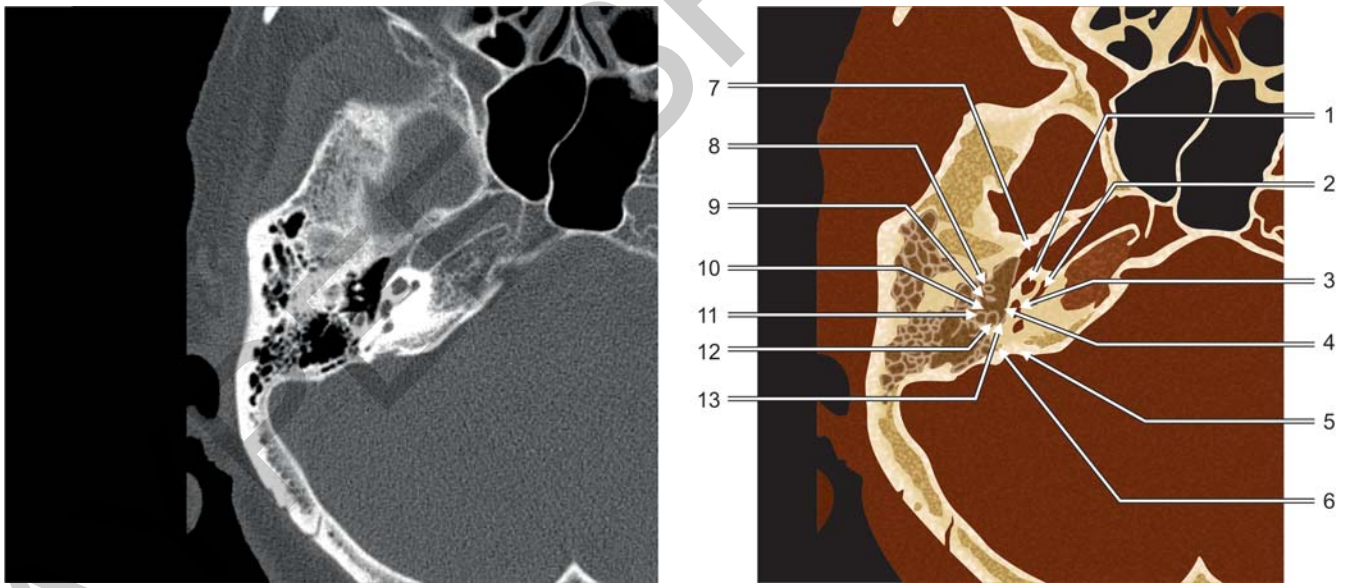


Figure 4.4

1. Apical turn, cochlea
2. Basal turn of cochlea
3. Vestibule
4. Stapes bone
5. Vestibular aqueduct
6. Posterior semicircular canal
7. Tensor tympani muscle
8. Malleus
9. Incus
10. Pyramidal eminence
11. Facial recess
12. Facial nerve
13. Sinus tympani

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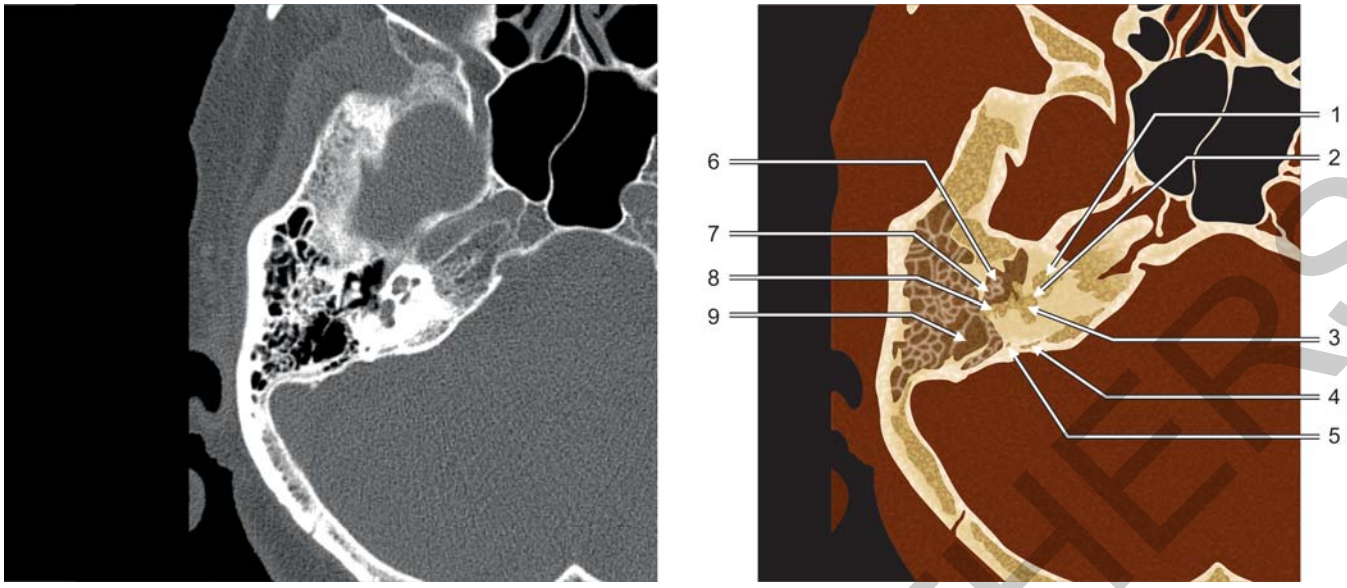


Figure 4.5

1. Cochlea
2. Vestibule
3. Oval window
4. Vestibular aqueduct
5. Posterior semicircular canal
6. Malleus
7. Incus
8. Facial nerve
9. Mastoid

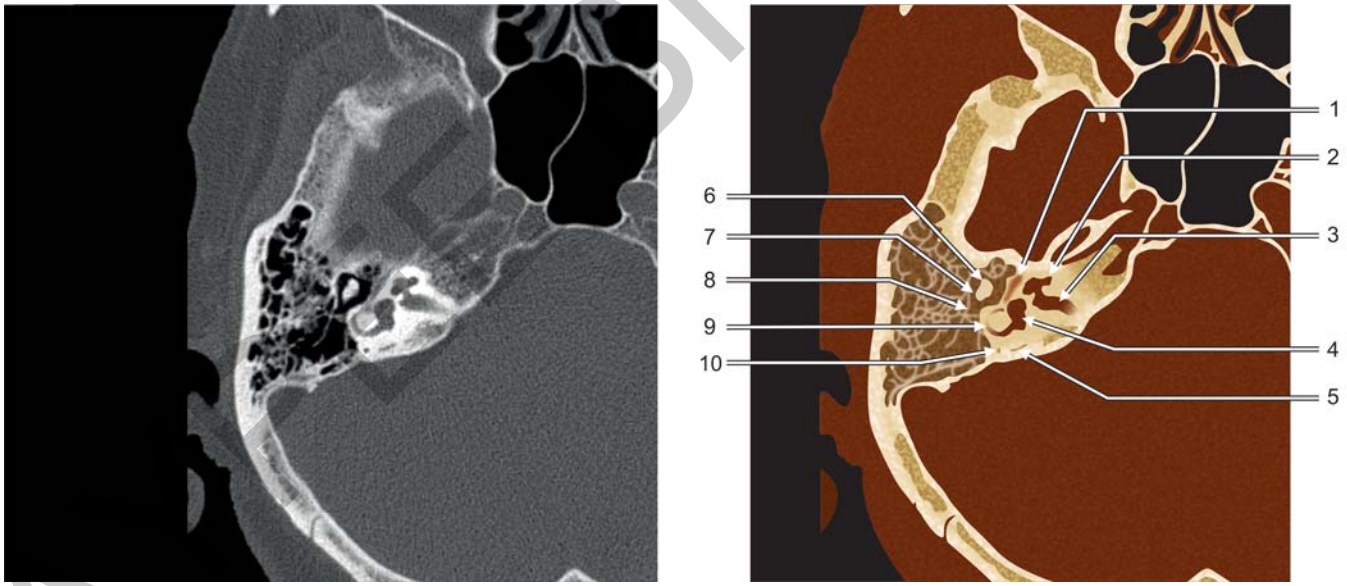


Figure 4.6

1. Facial nerve
2. Cochlea
3. Internal auditory canal
4. Vestibule
5. Vestibular aqueduct
6. Malleus
7. Incus
8. Aditus ad antrum
9. Lateral semicircular canal
10. Posterior semicircular canal

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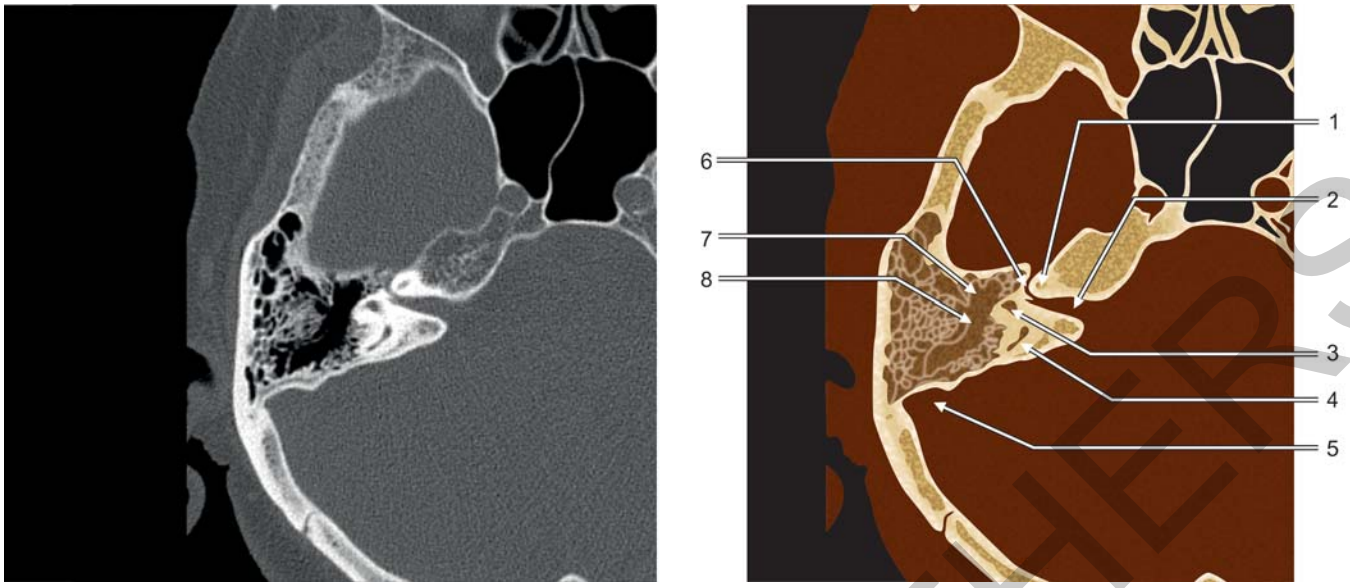


Figure 4.7

1. Cochlea
2. Internal auditory canal
3. Vestibule
4. Posterior semicircular canal
5. Sigmoid groove
6. Facial nerve
7. Epitympanum
8. Aditus ad antrum

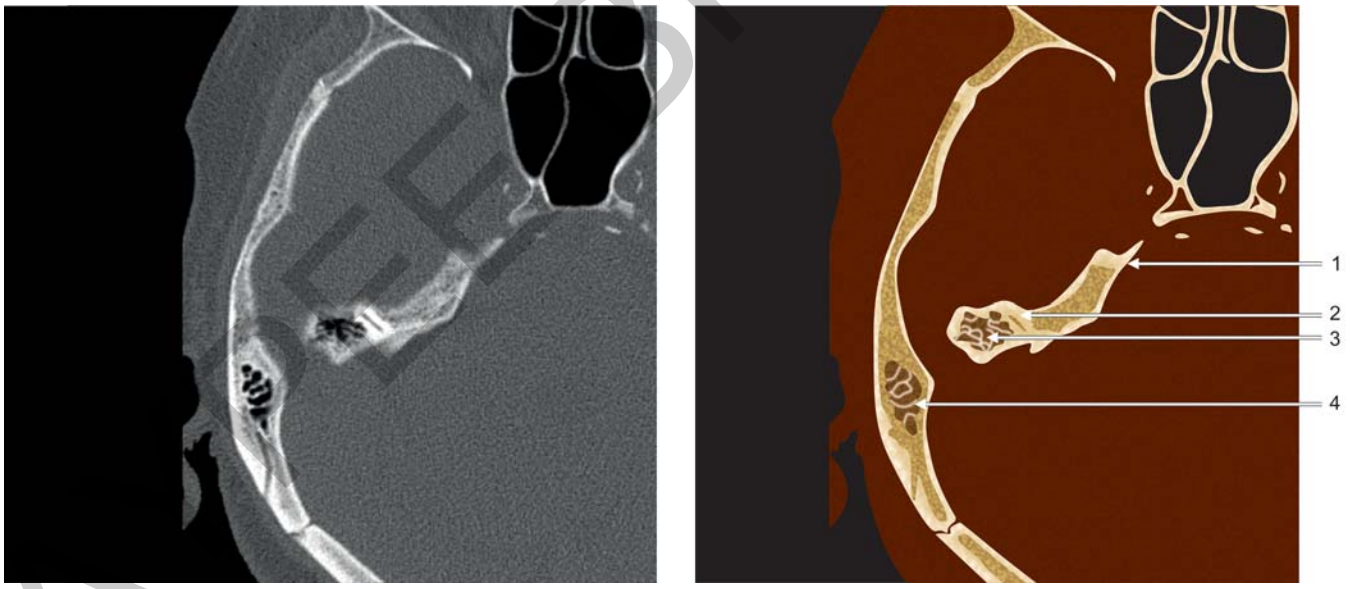


Figure 4.8

1. Petrous apex
2. Superior semicircular canal
3. Epitympanum
4. Mastoid

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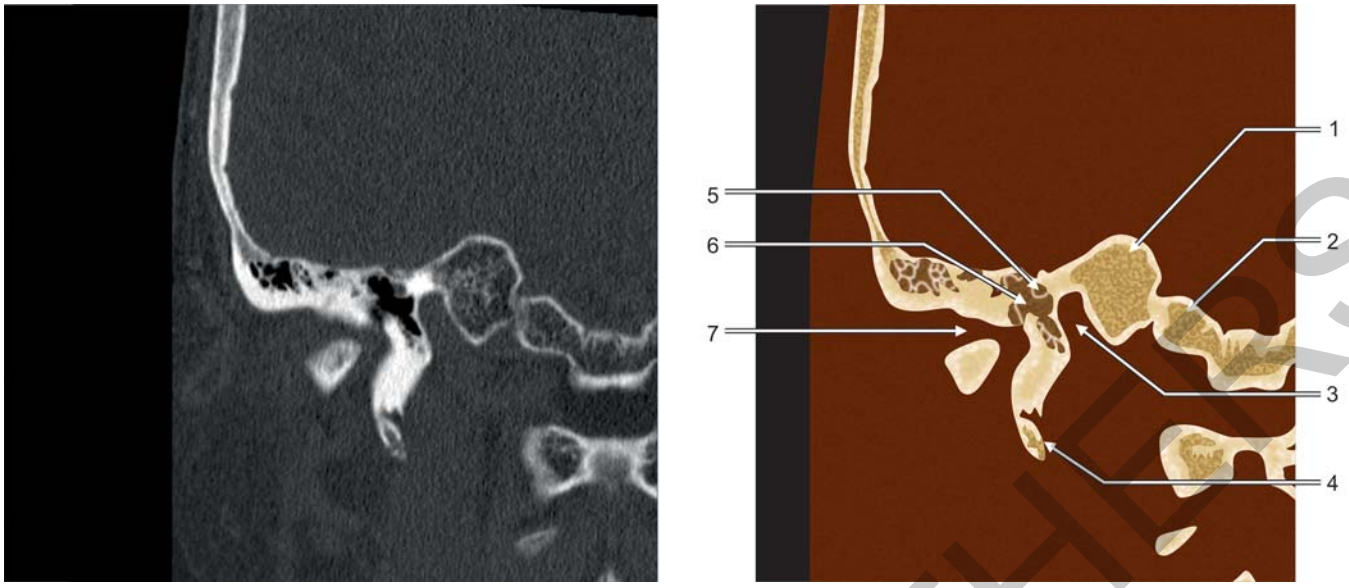


Figure 4.9

1. Petrous bone
2. Basi-occiput
3. Carotid canal
4. Styloid process
5. Tensor tympani muscle
6. Eustachian tube
7. TM joint

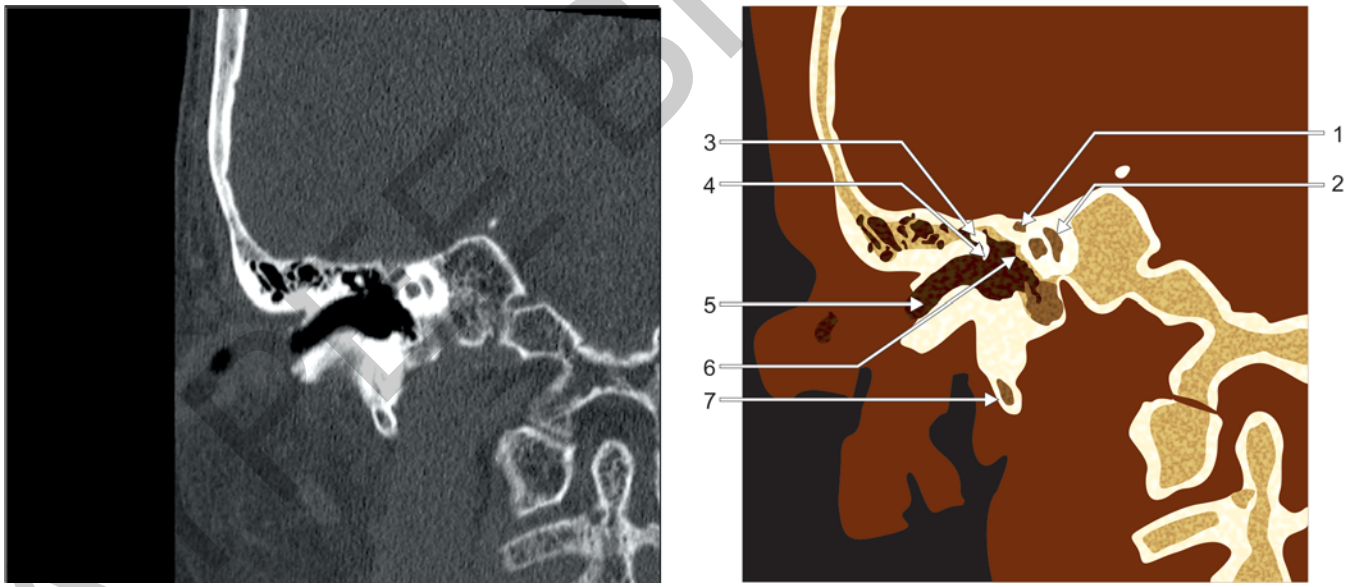


Figure 4.10

1. Facial nerve, anterior genu
2. Cochlea
3. Malleus
4. Incus
5. External auditory canal
6. Tensor tympani
7. Styloid process

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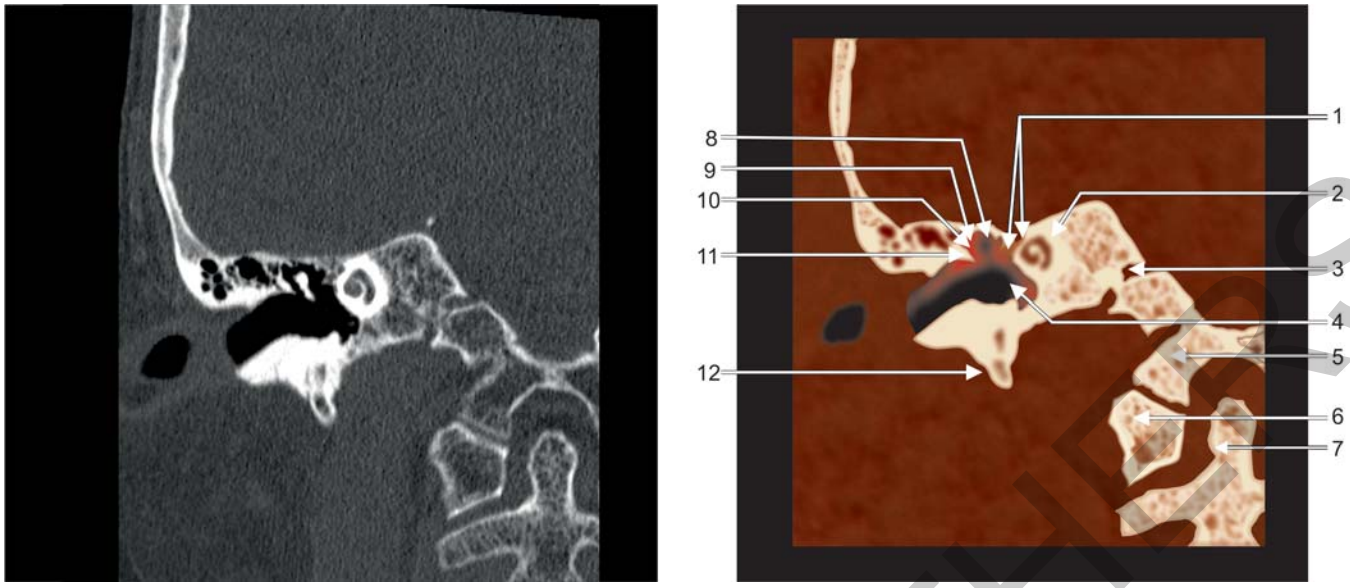


Figure 4.11

1. Facial nerve
2. Cochlea
3. Petro-occipital fissure
4. Middle ear
5. Occipital condyle
6. Lateral mass, atlas
7. Dens
8. Epitympanum
9. Malleus
10. Prussak's space
11. Scutum
12. Styloid process

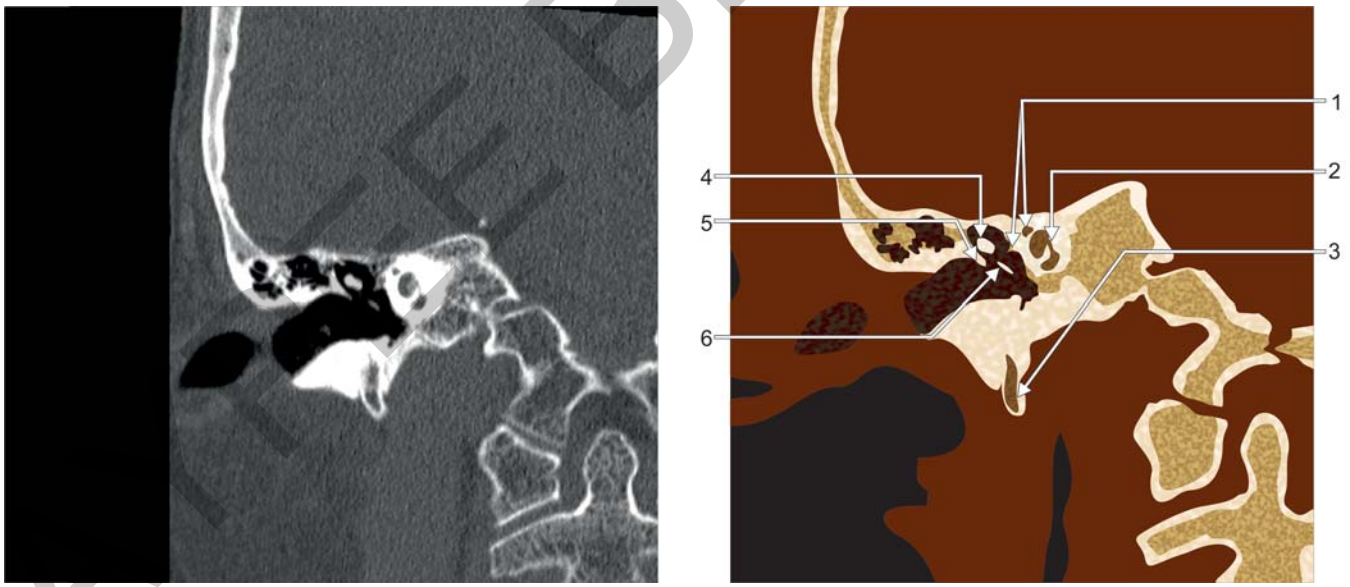


Figure 4.12

1. Facial nerve
2. Cochlea
3. Styloid process
4. Malleus
5. Scutum
6. Incus

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Figure 4.13

1. Tegmen tympanum
2. Facial nerve
3. Cochlea, middle turn
4. Cochlea, basal turn
5. Hypotympanum
6. Styloid process

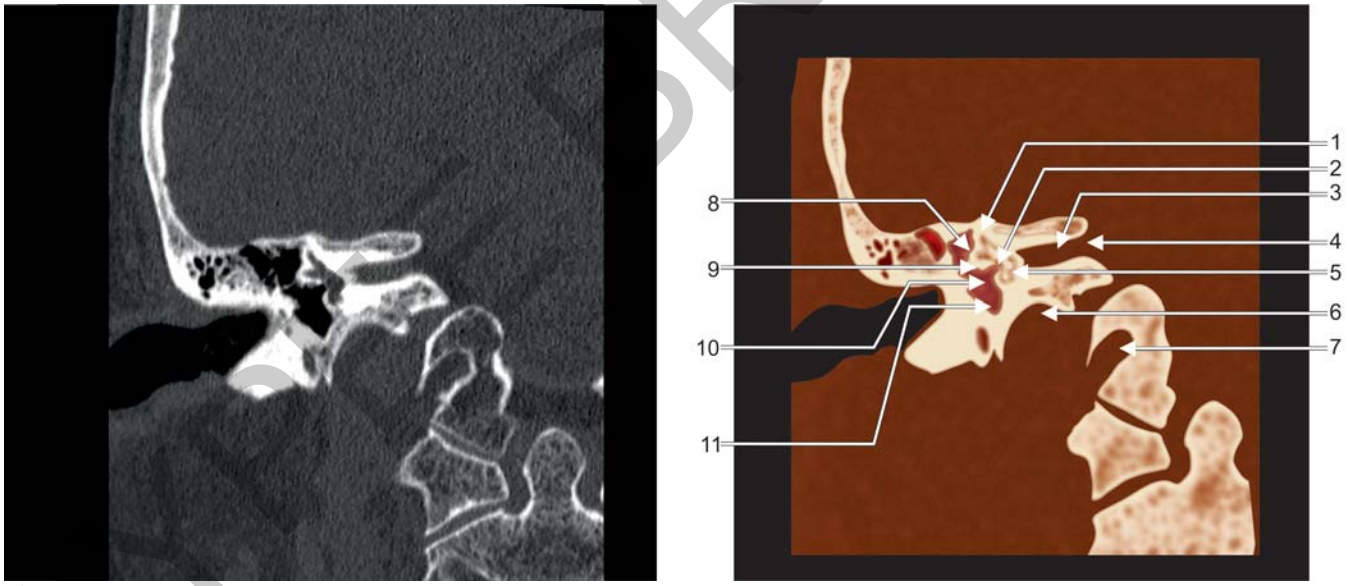


Figure 4.14

1. Superior semicircular canal
2. Oval window
3. Internal auditory canal
4. Porus acusticus
5. Vestibule
6. Jugular fossa
7. Hypoglossal cana
8. Lateral semicircular canal
9. Facial nerve
10. Stapes
11. Hypotympanum

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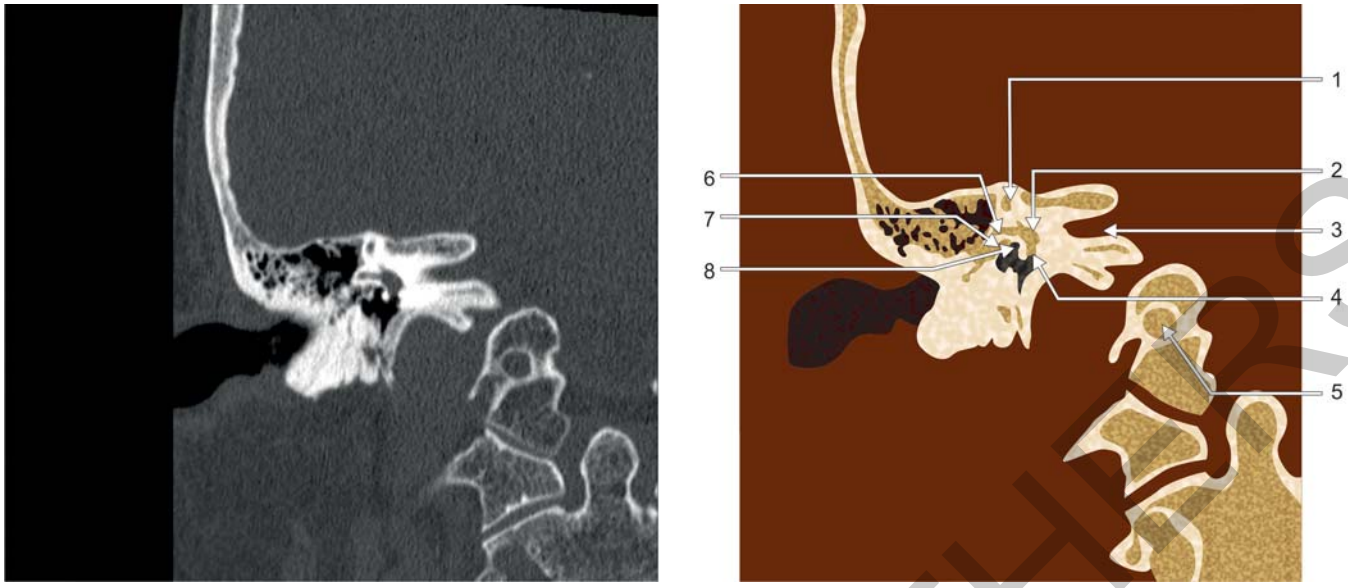


Figure 4.15

1. Superior semicircular canal
2. Vestibule
3. Internal auditory canal
4. Round window
5. Hypoglossal canal
6. Lateral semicircular canal
7. Facial nerve
8. Sinus tympani

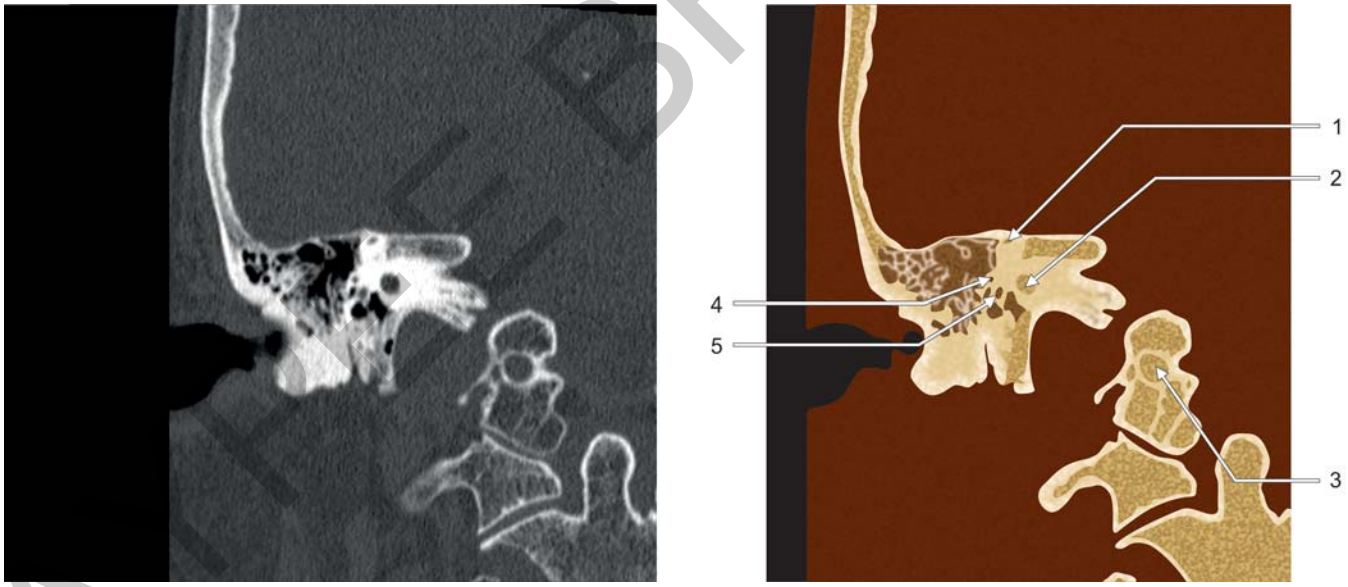


Figure 4.16

1. Superior semicircular canal
2. Vestibule
3. Hypoglossal canal
4. Lateral semicircular canal
5. Facial nerve

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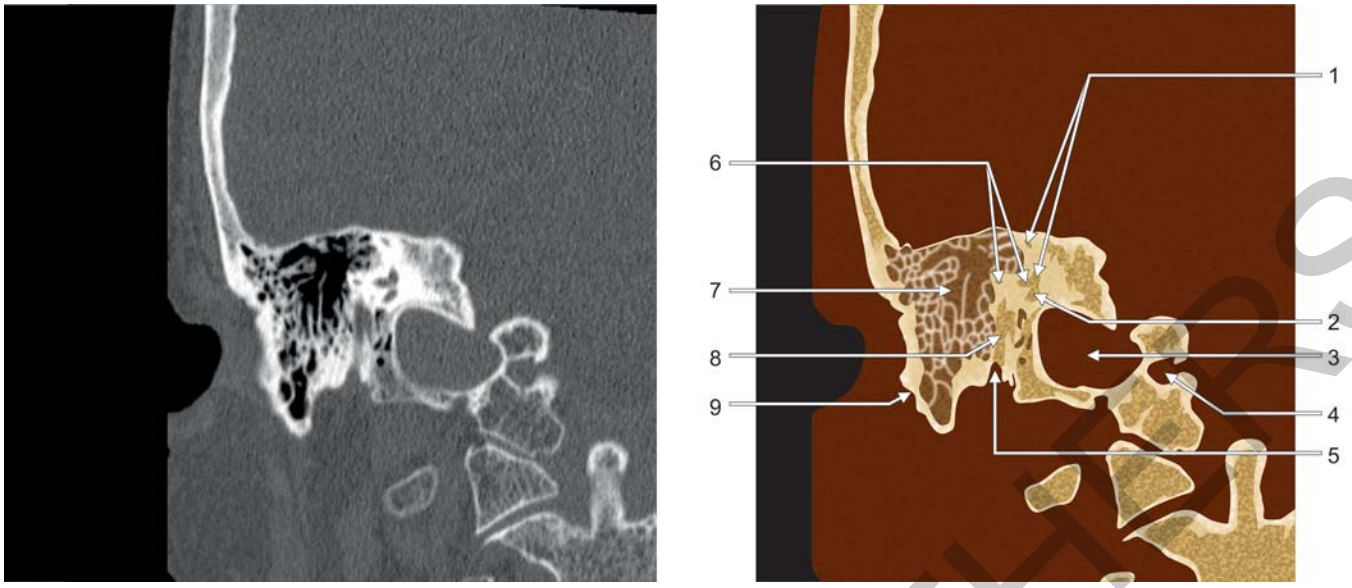


Figure 4.17

1. Superior semicircular canal
2. Posterior semicircular canal
3. Jugular fossa
4. Hypoglossal canal
5. Stylomastoid foramen
6. Lateral semicircular canal
7. Mastoid sinus
8. Facial nerve
9. Mastoid process

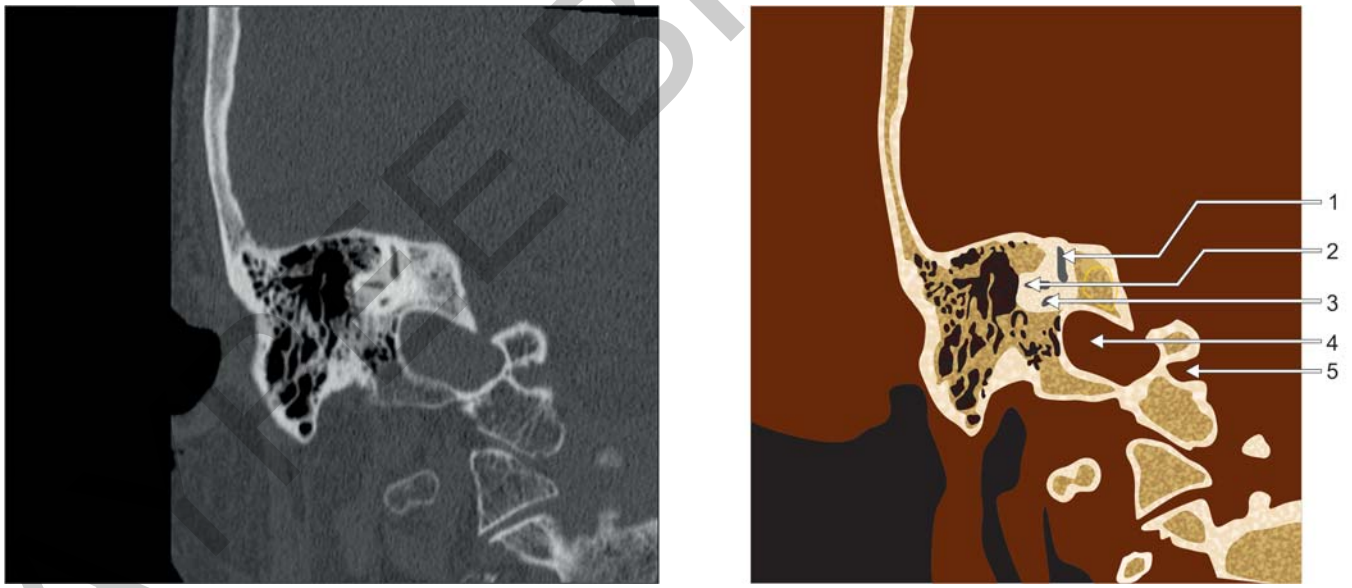


Figure 4.18

1. Superior semicircular canal
2. Lateral semicircular canal
3. Posterior semicircular canal
4. Jugular fossa
5. Hypoglossal canal

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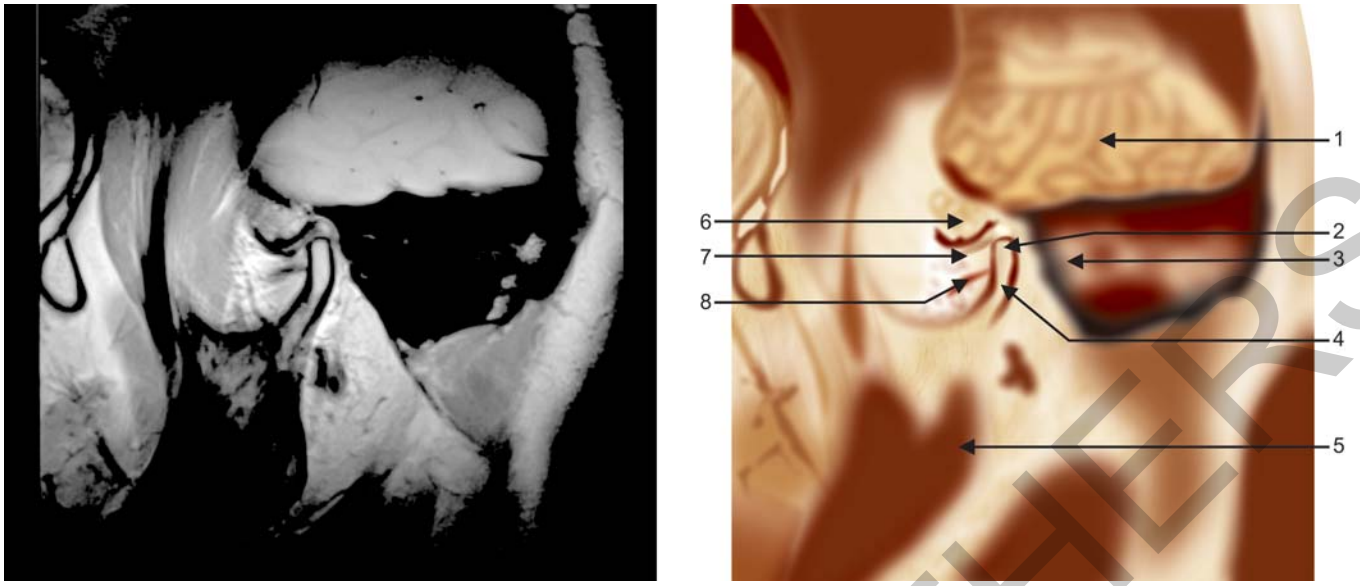


Figure 4.19

1. Temporal lobe, brain
2. Head of the mandible
3. External auditory canal
4. Neck of the mandible
5. Ramus of the mandible
6. Articular tubercle of temporal bone
7. Articular disk
8. Lateral pterygoid muscle

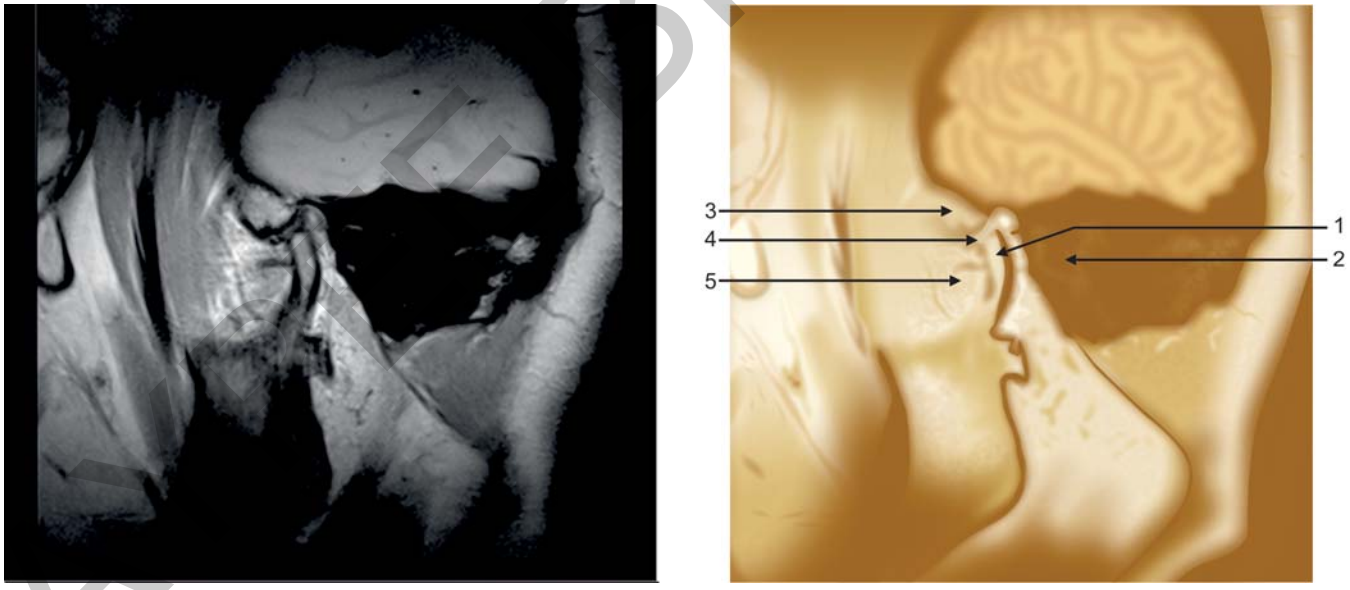


Figure 4.20

1. Head, mandible
2. External auditory canal
3. Articular tubercle
4. Articular disk
5. Lateral pterygoid muscle

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CROSS SECTIONAL ANATOMY CT & MRI

This atlas of cross sectional anatomy has CT and MRI images in all three planes showing normal human anatomy. The structures are labeled directly on the images for convenience. There are accompanying color diagrams of the same part to understand the anatomy better. We hope that this will serve as a quick, handy and convenient anatomy reference for reporting radiologists.



Govind Chavhan is a pediatric radiologist at the Hospital for Sick Children in Toronto, Canada. He has authored several peer-reviewed publications, book chapters and a book previously.



Bhavin Jankharia a well-known radiologist, has been a teacher for many years. He runs the Jankharia Imaging Center in Mumbai, Maharashtra, India and an NGO called The Radiology Education Foundation.

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