

Petrous bone anatomy

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Department of Diagnostic Radiology

Left temporal bone
Axial images

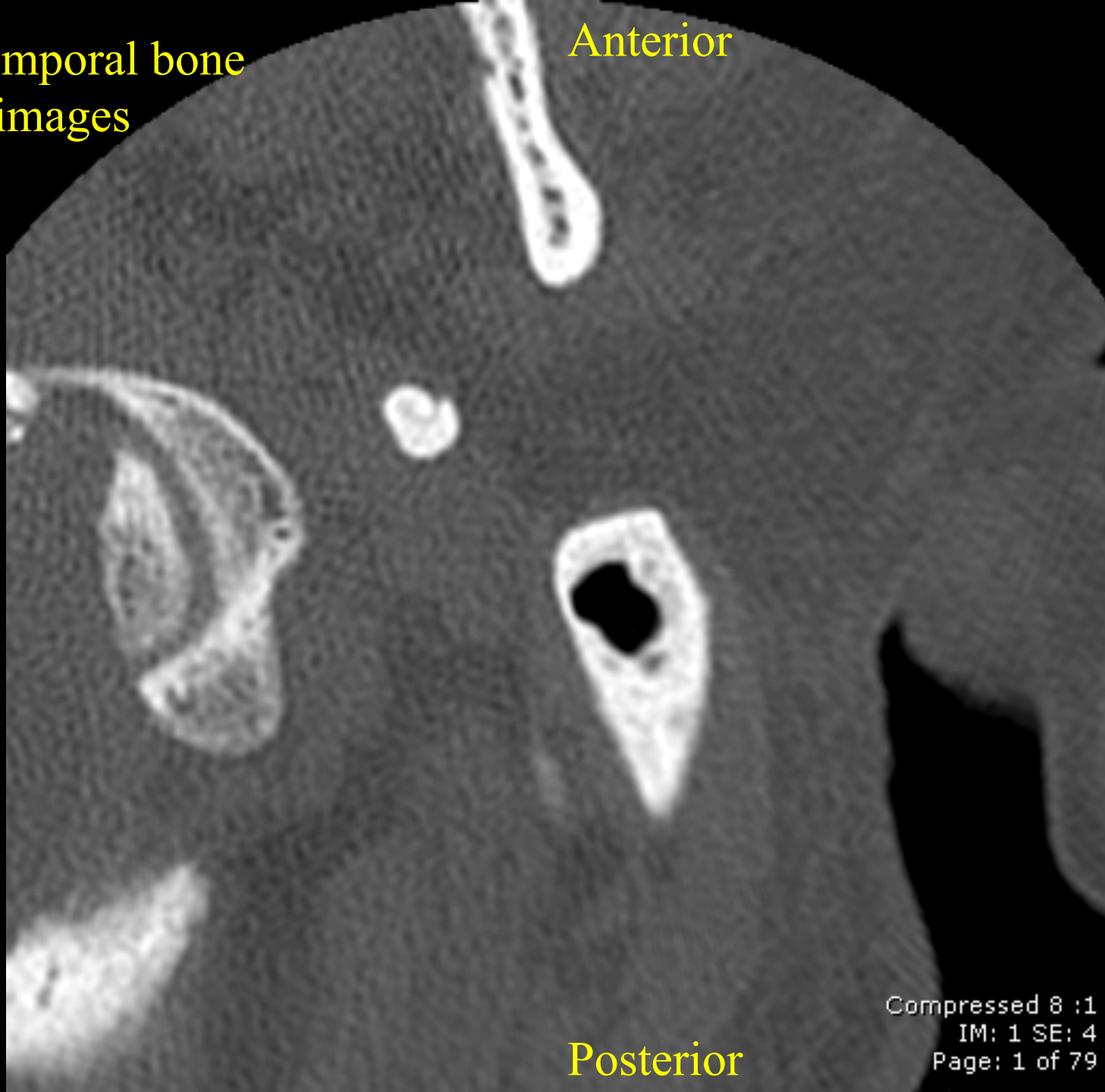
Anterior

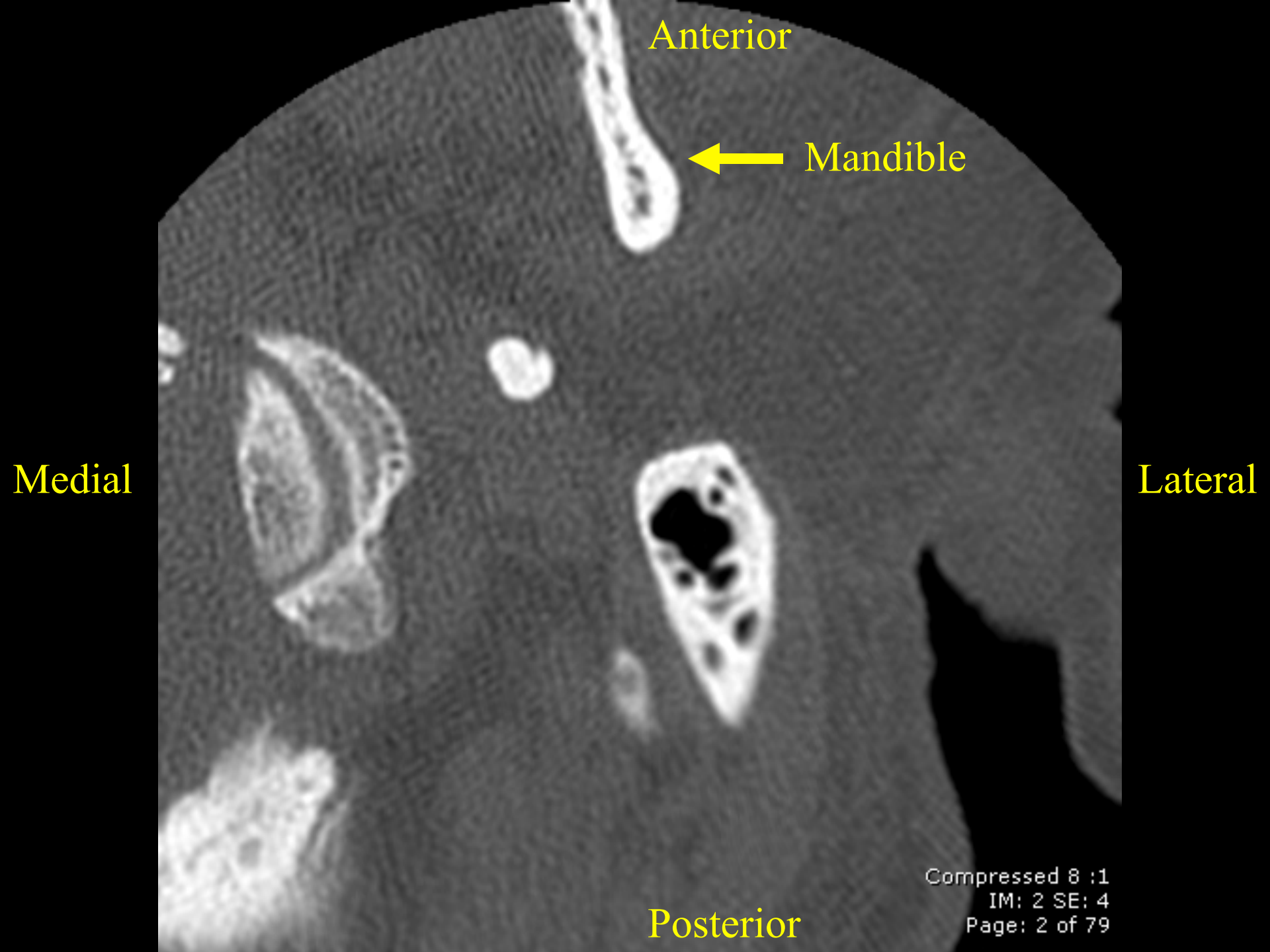
Medial

Lateral

Posterior

Compressed 8 :1
IM: 1 SE: 4
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Anterior



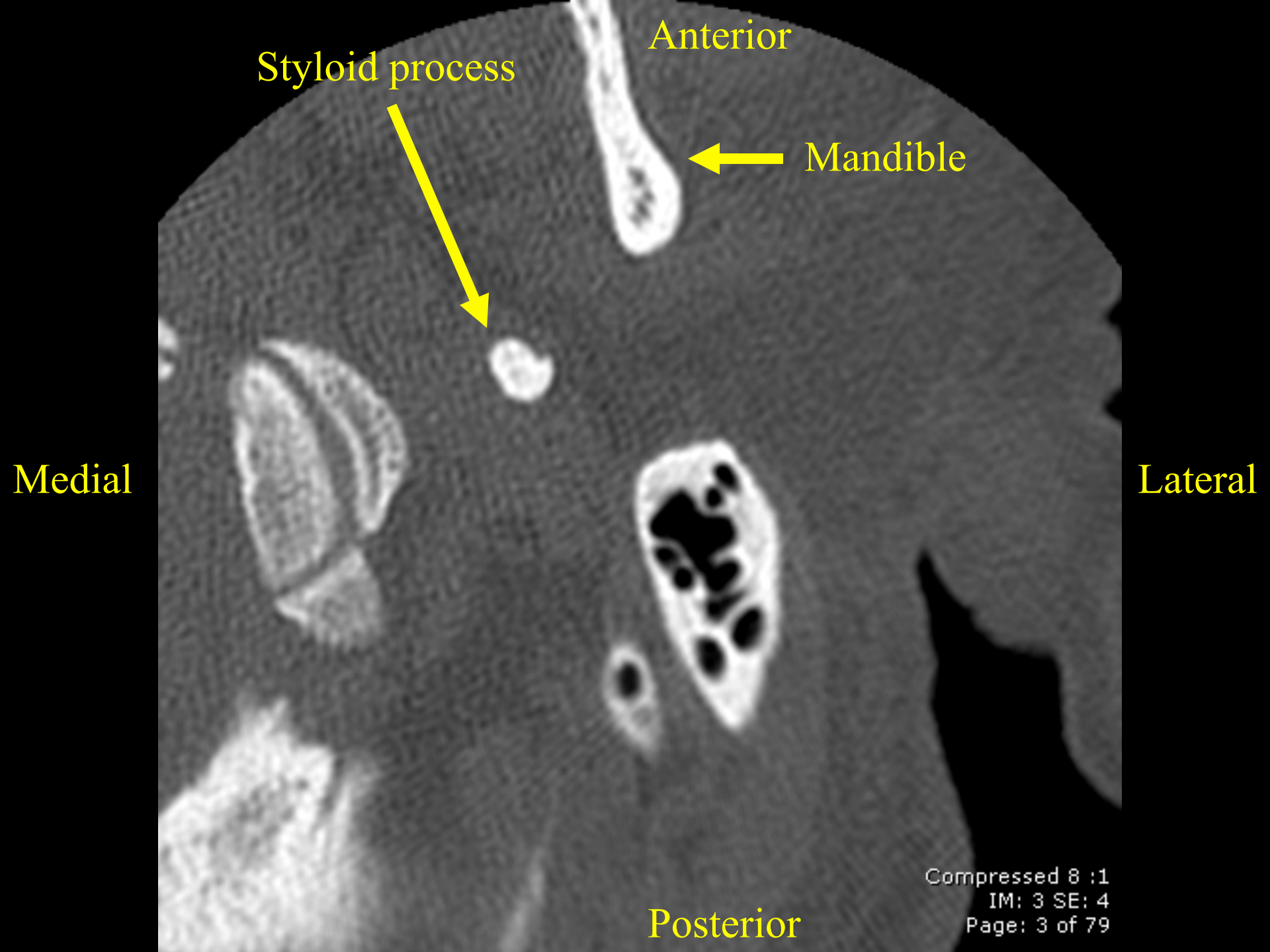
Mandible

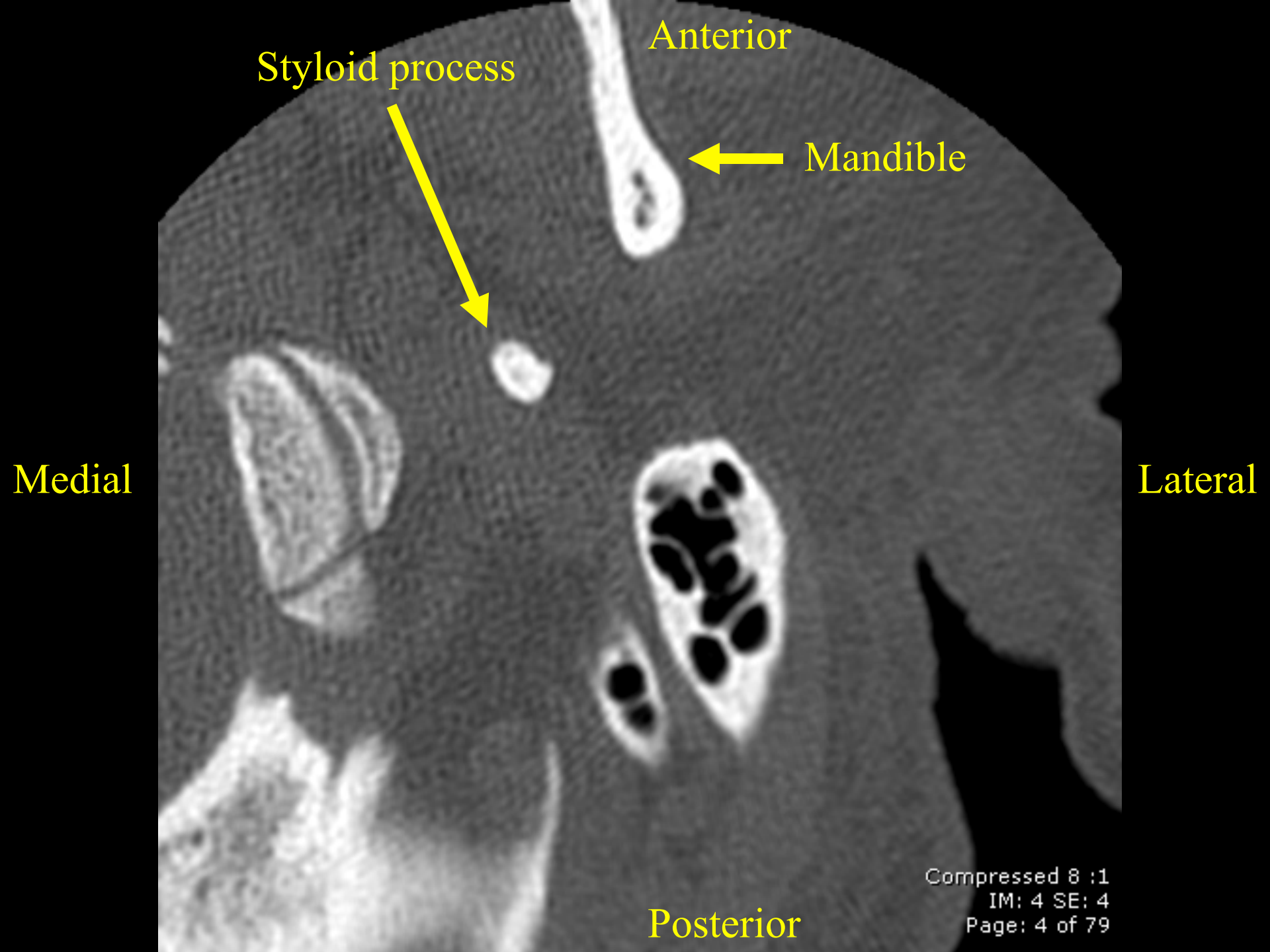
Medial

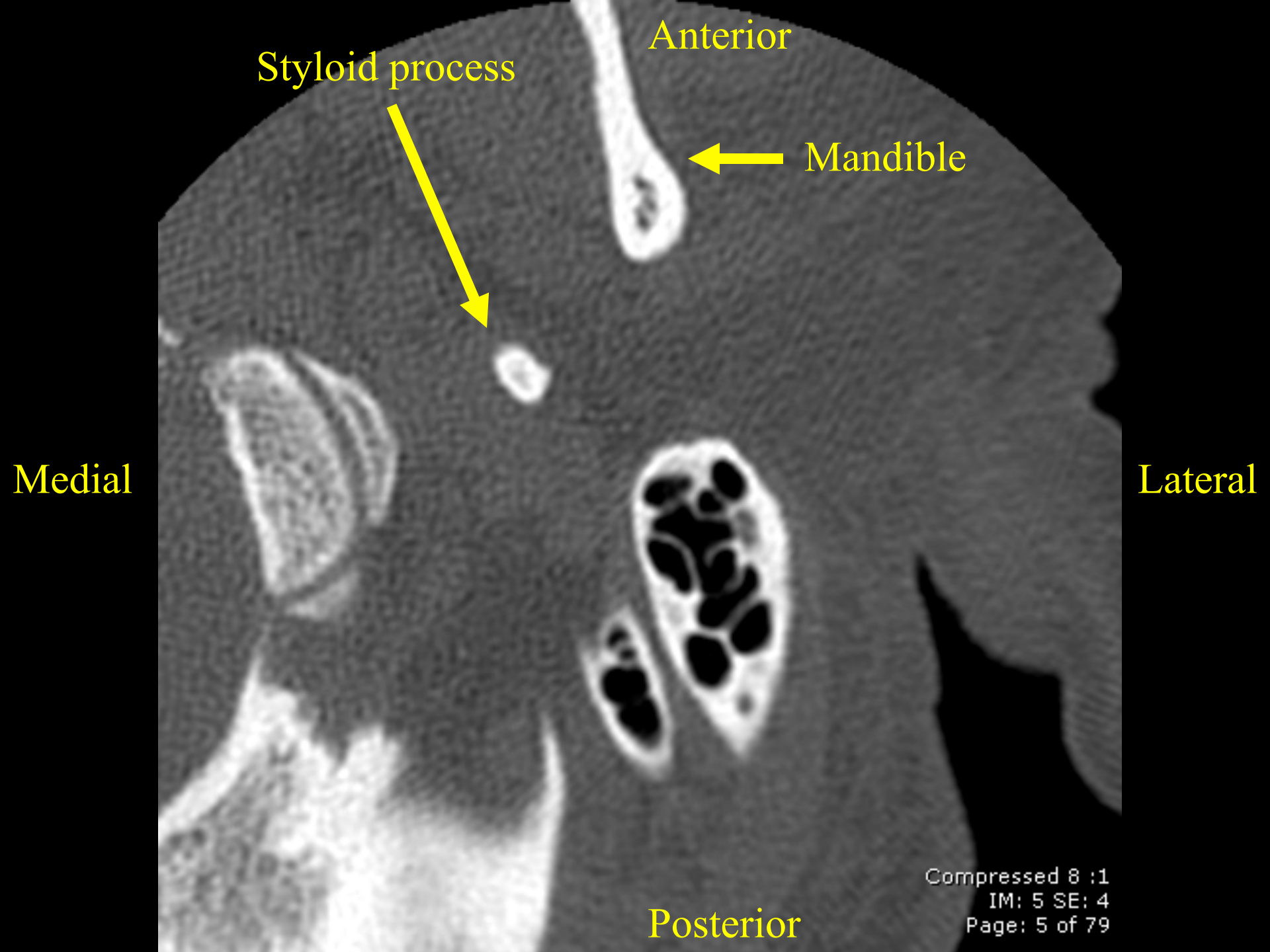
Lateral

Posterior

Compressed 8 :1
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Styloid process

Anterior

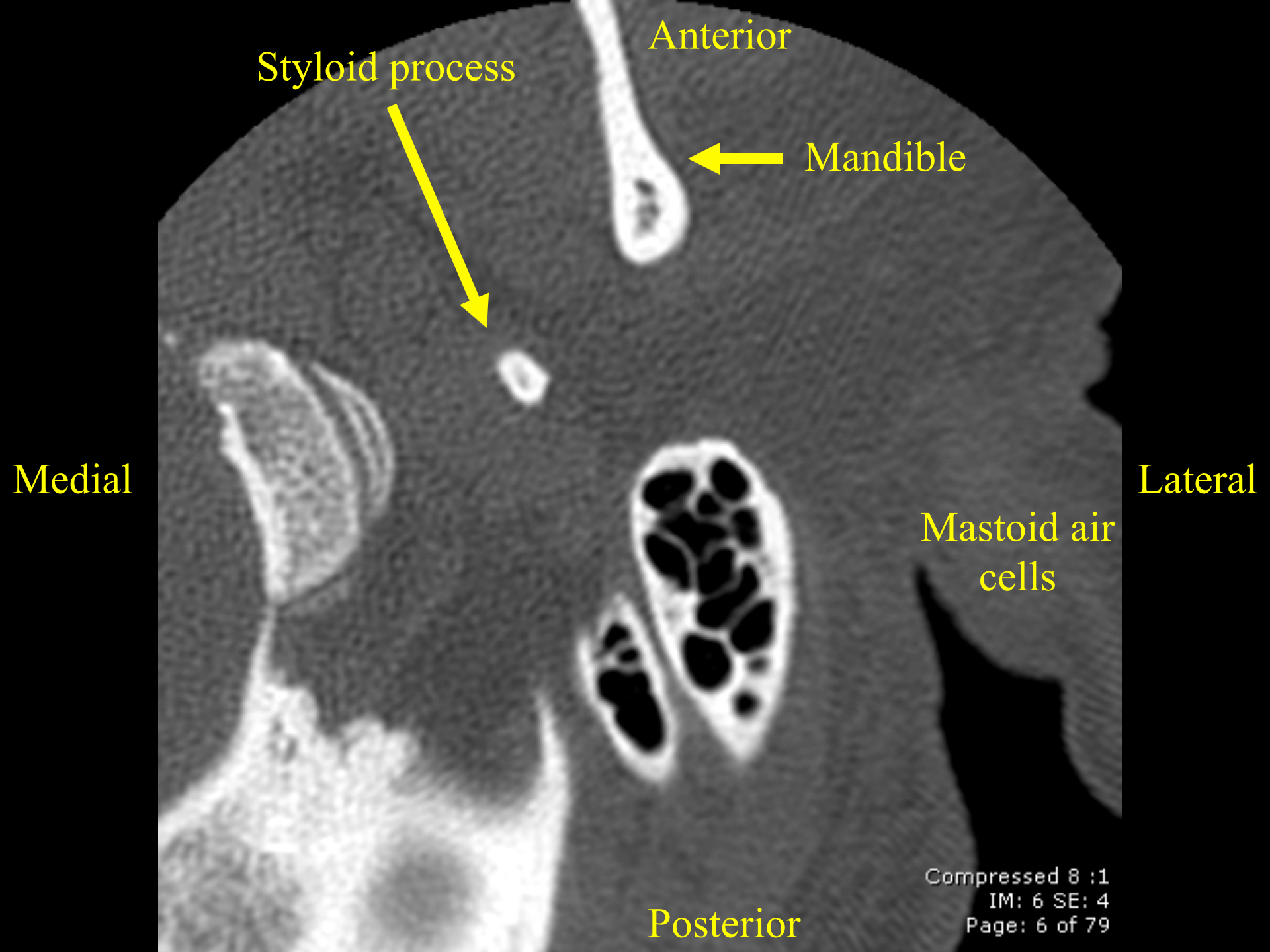
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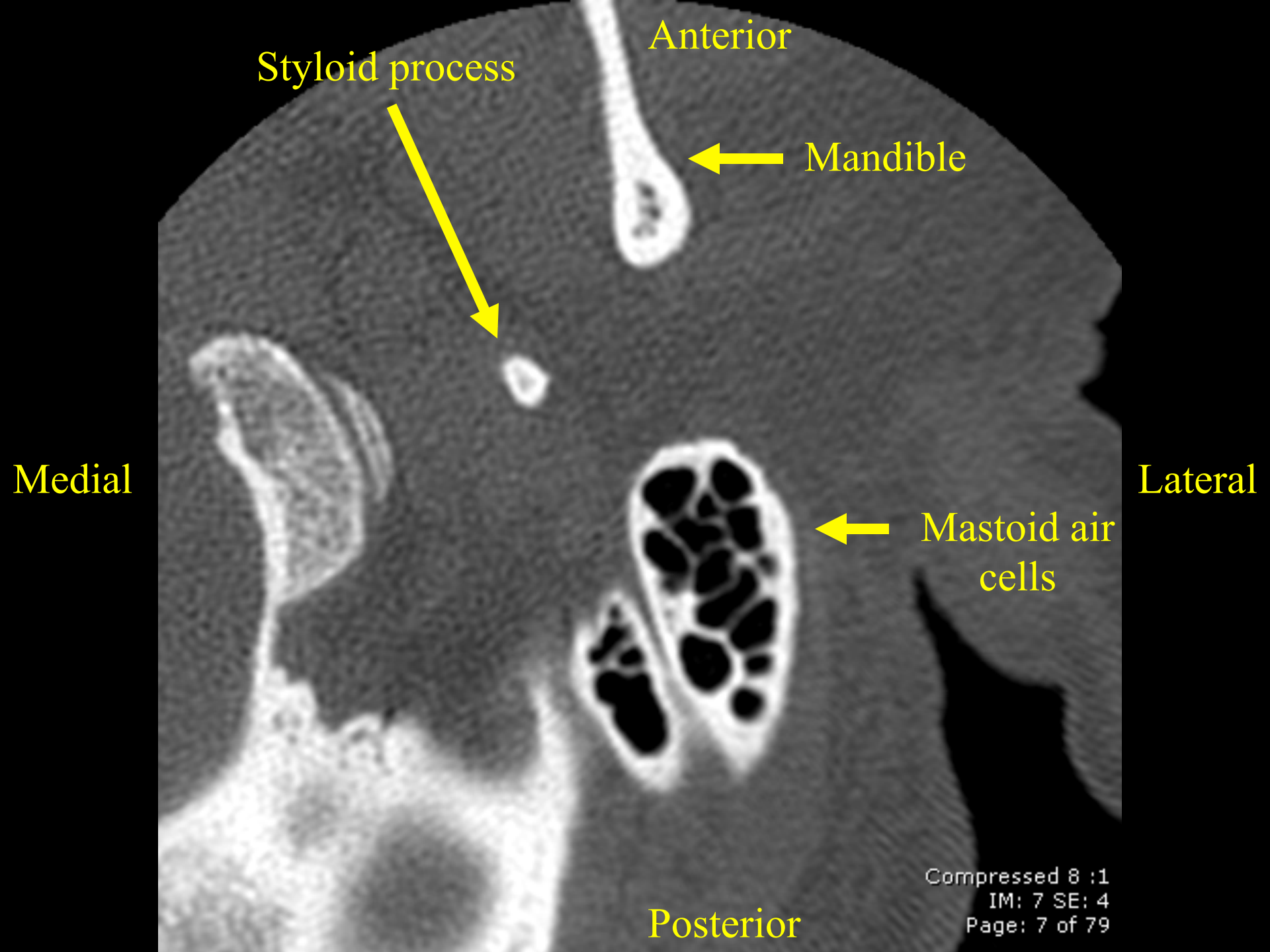
Medial

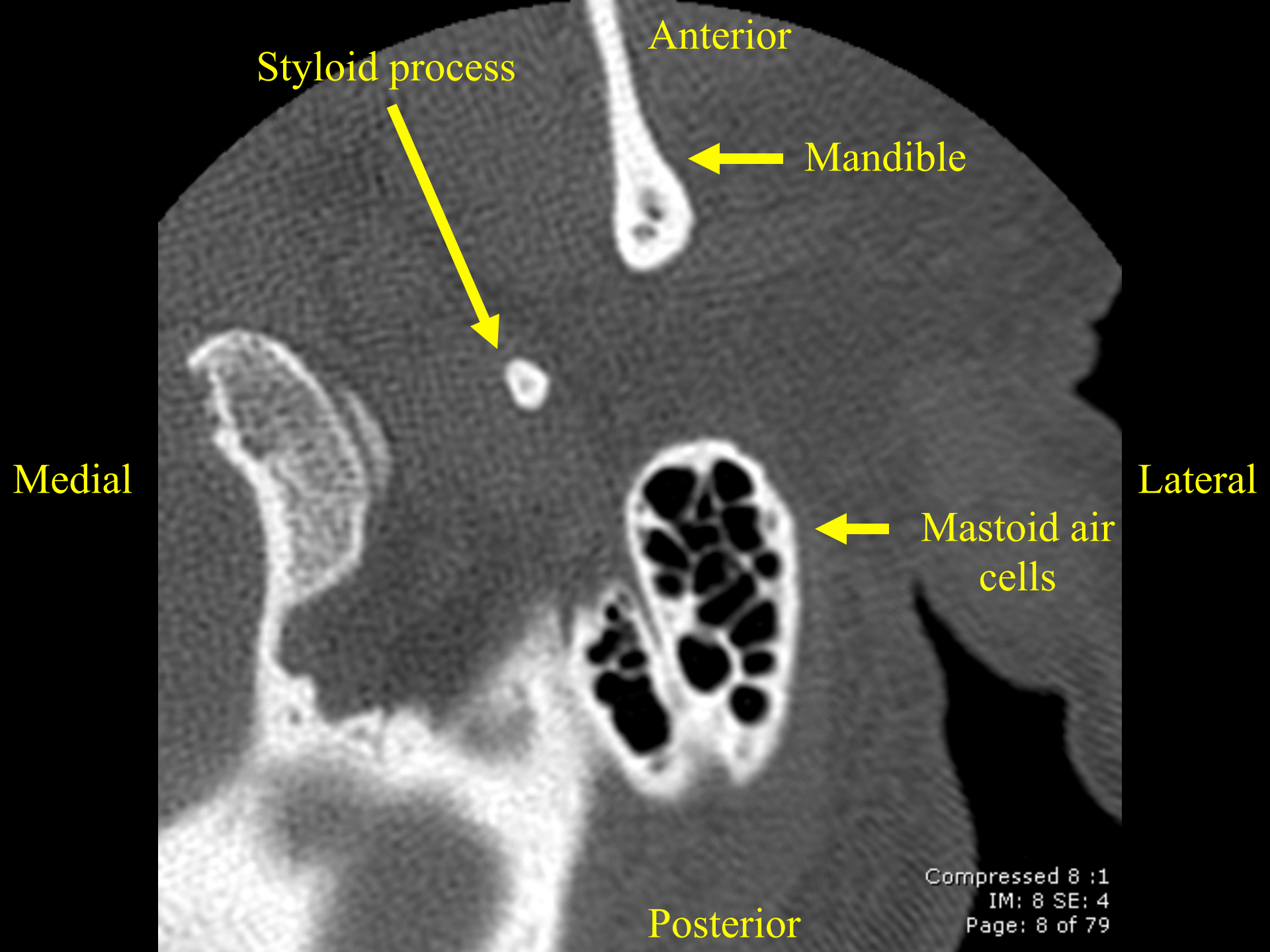
Lateral

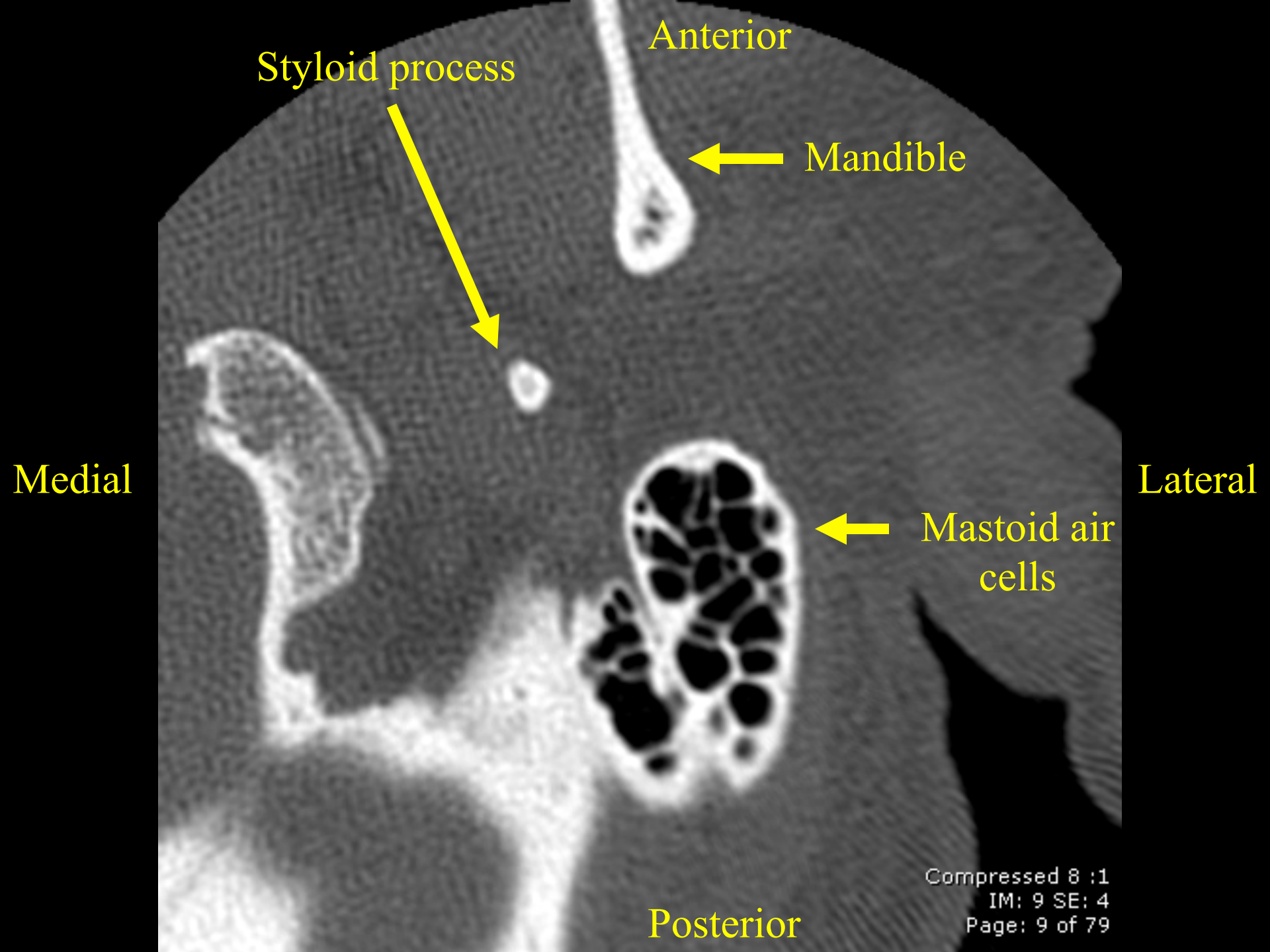
Posterior

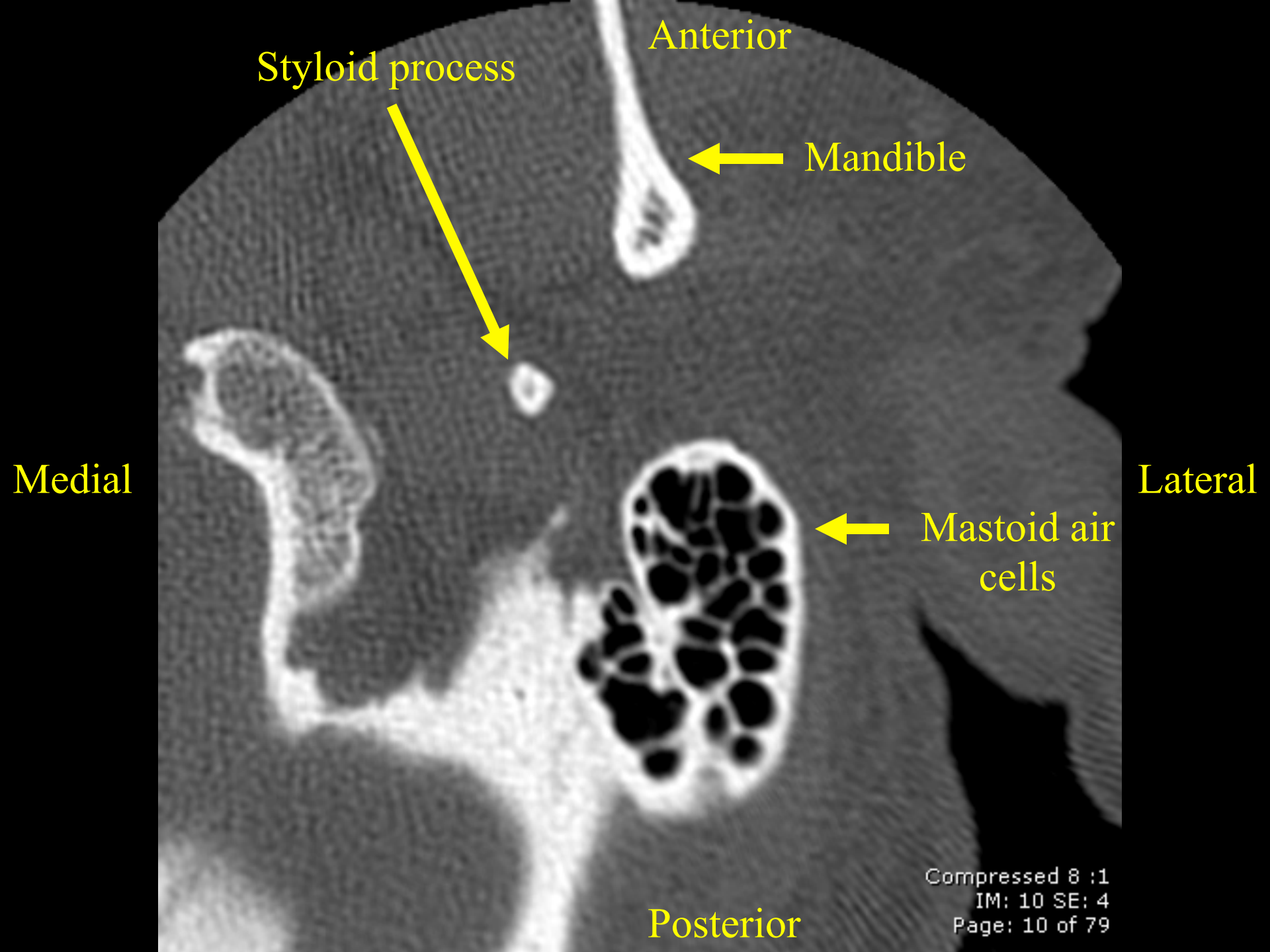
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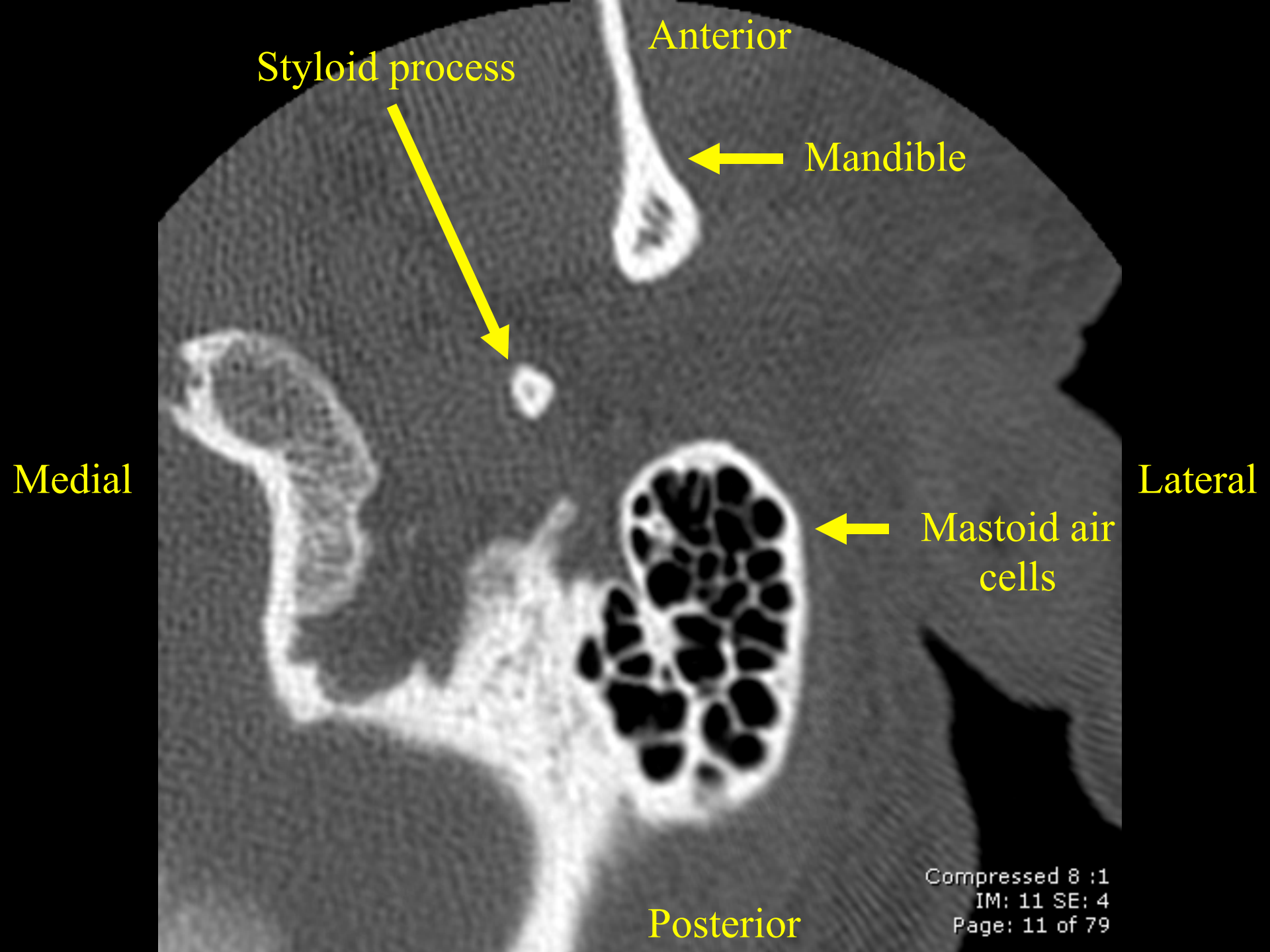


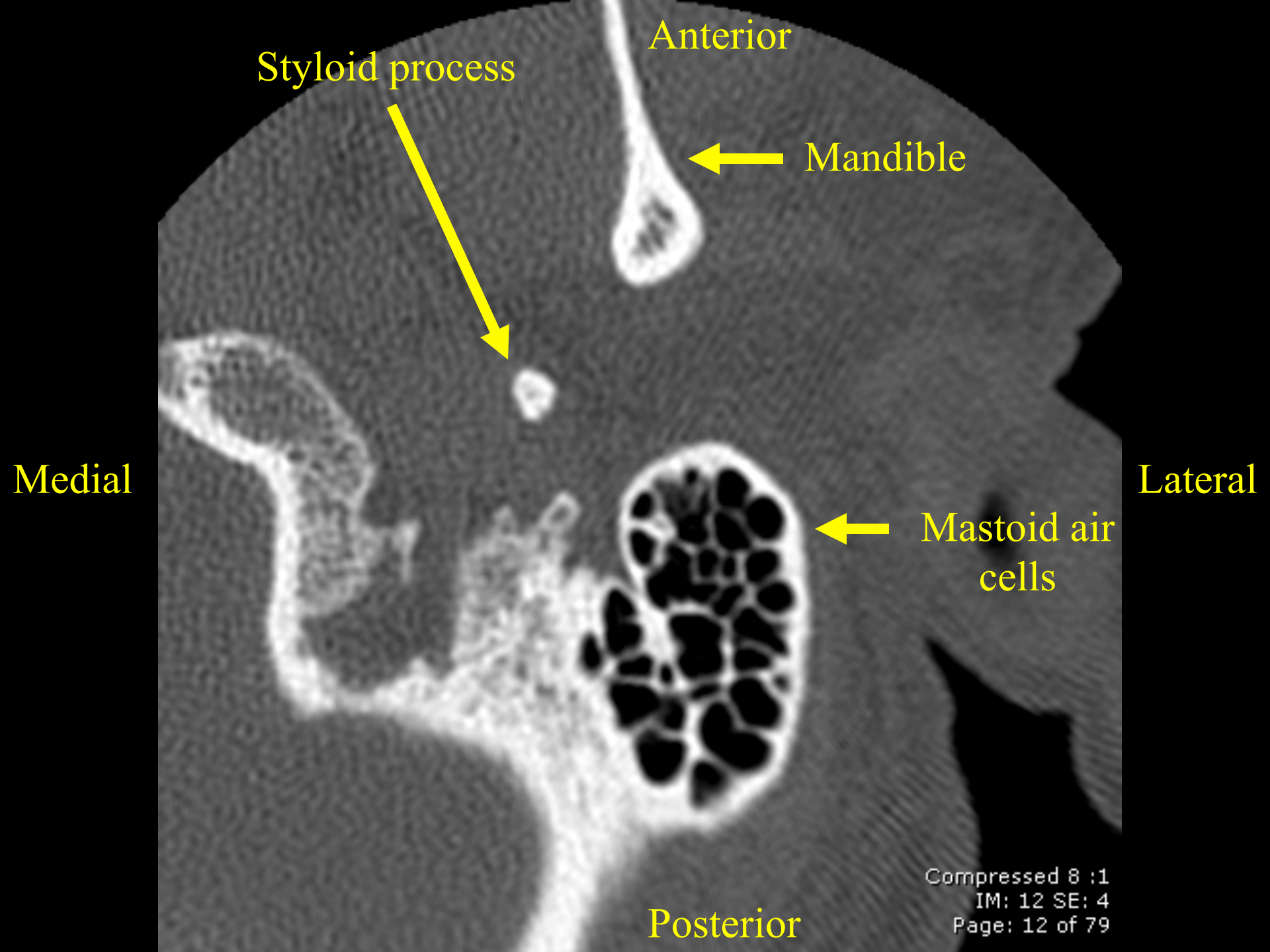












Styloid process

Anterior

Mandible

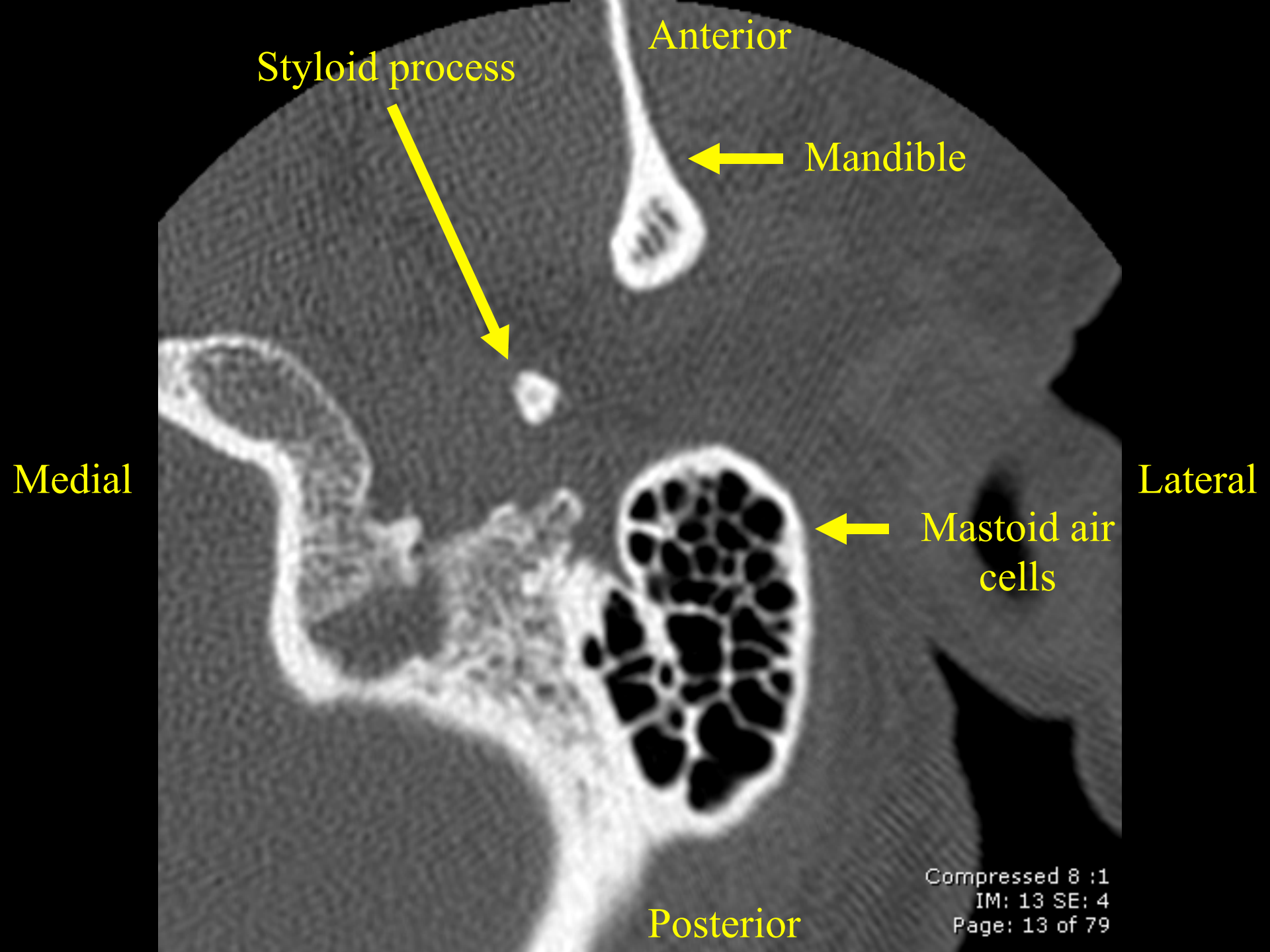
Medial

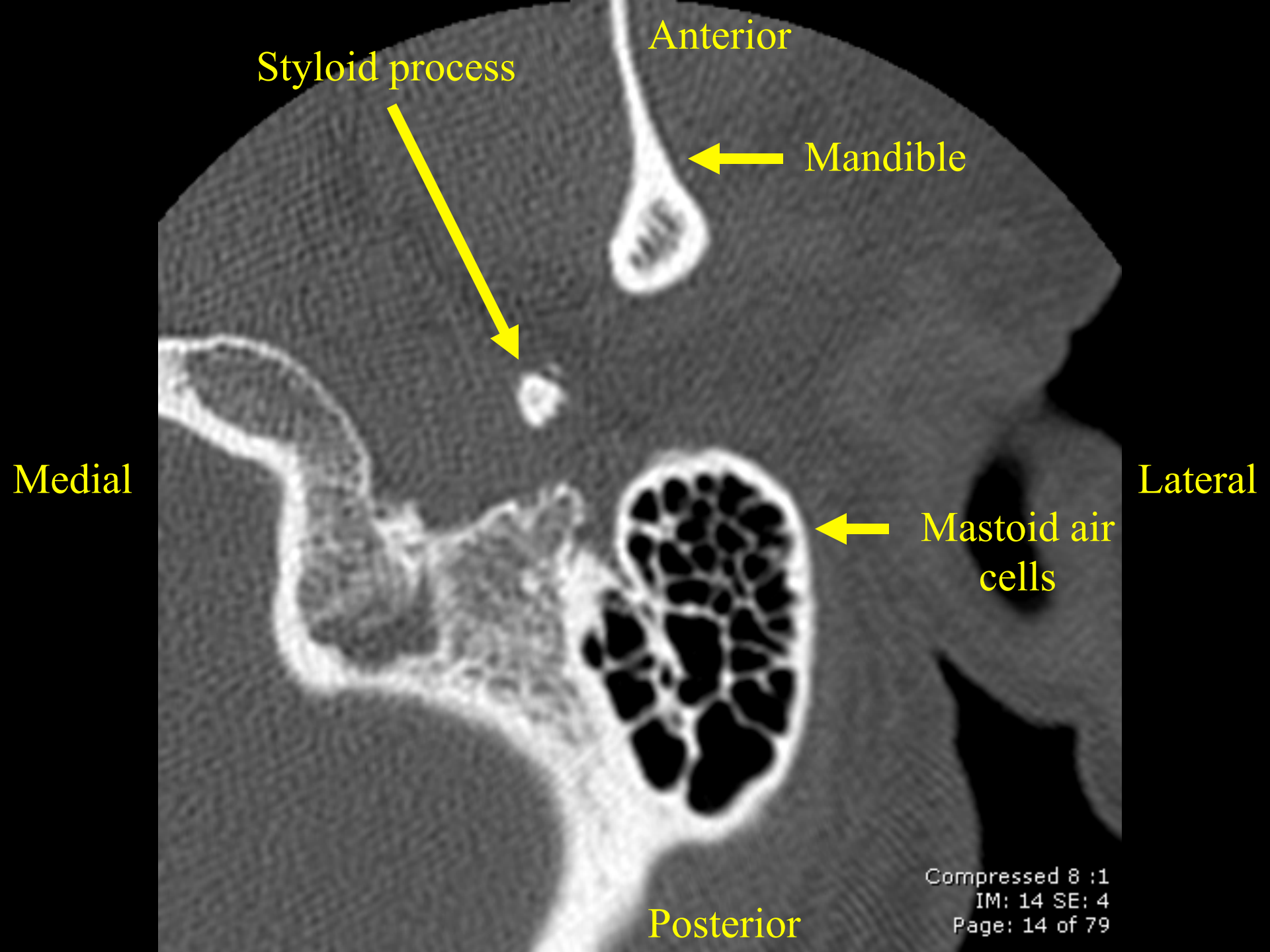
Lateral

Mastoid air
cells

Posterior

Compressed 8 :1
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Styloid process

Anterior

Mandible

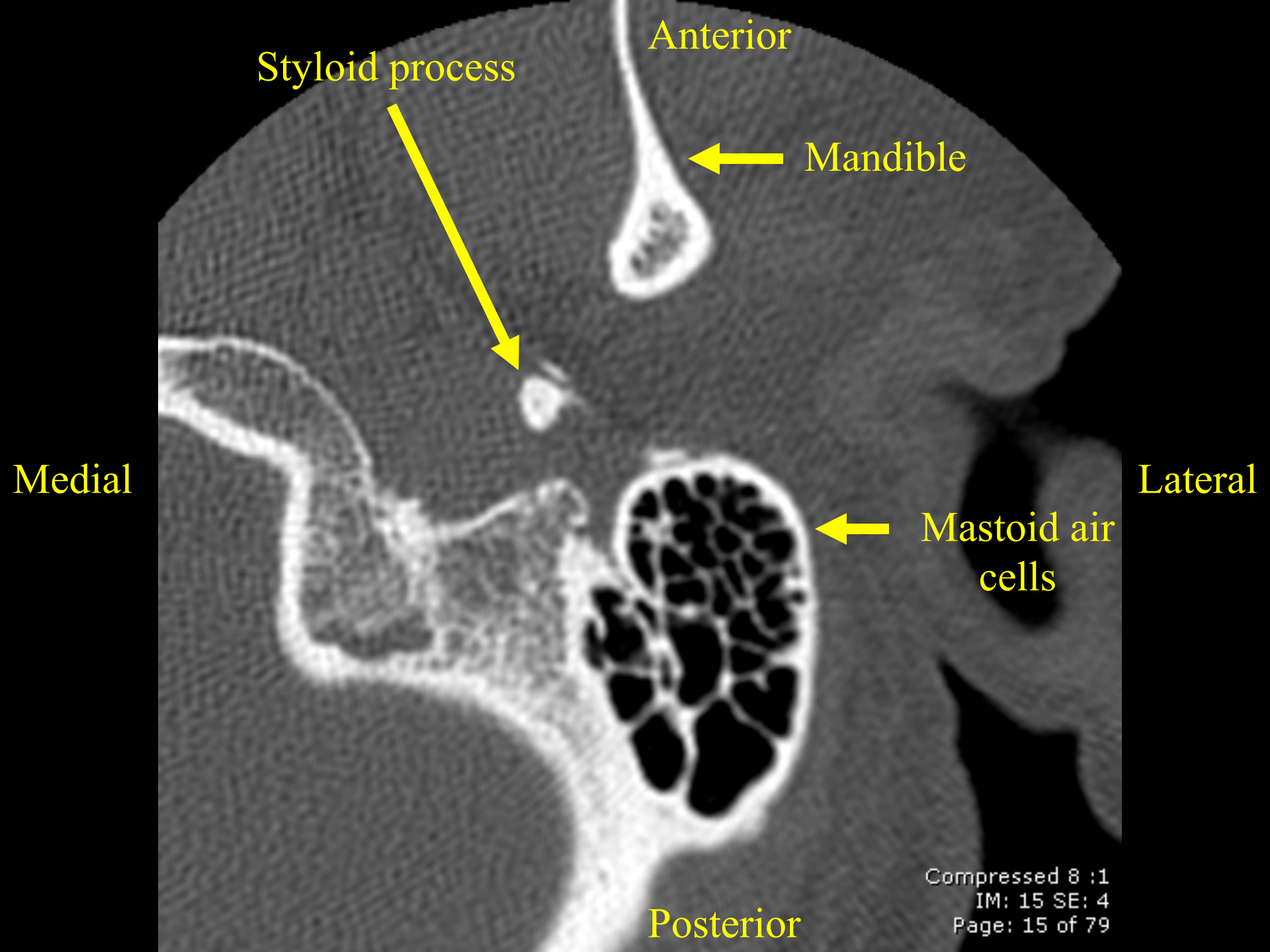
Medial

Lateral

Mastoid air
cells

Posterior

Compressed 8 :1
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Anterior

Q: What is the name of this foramen?

A: Stylomastoid foramen

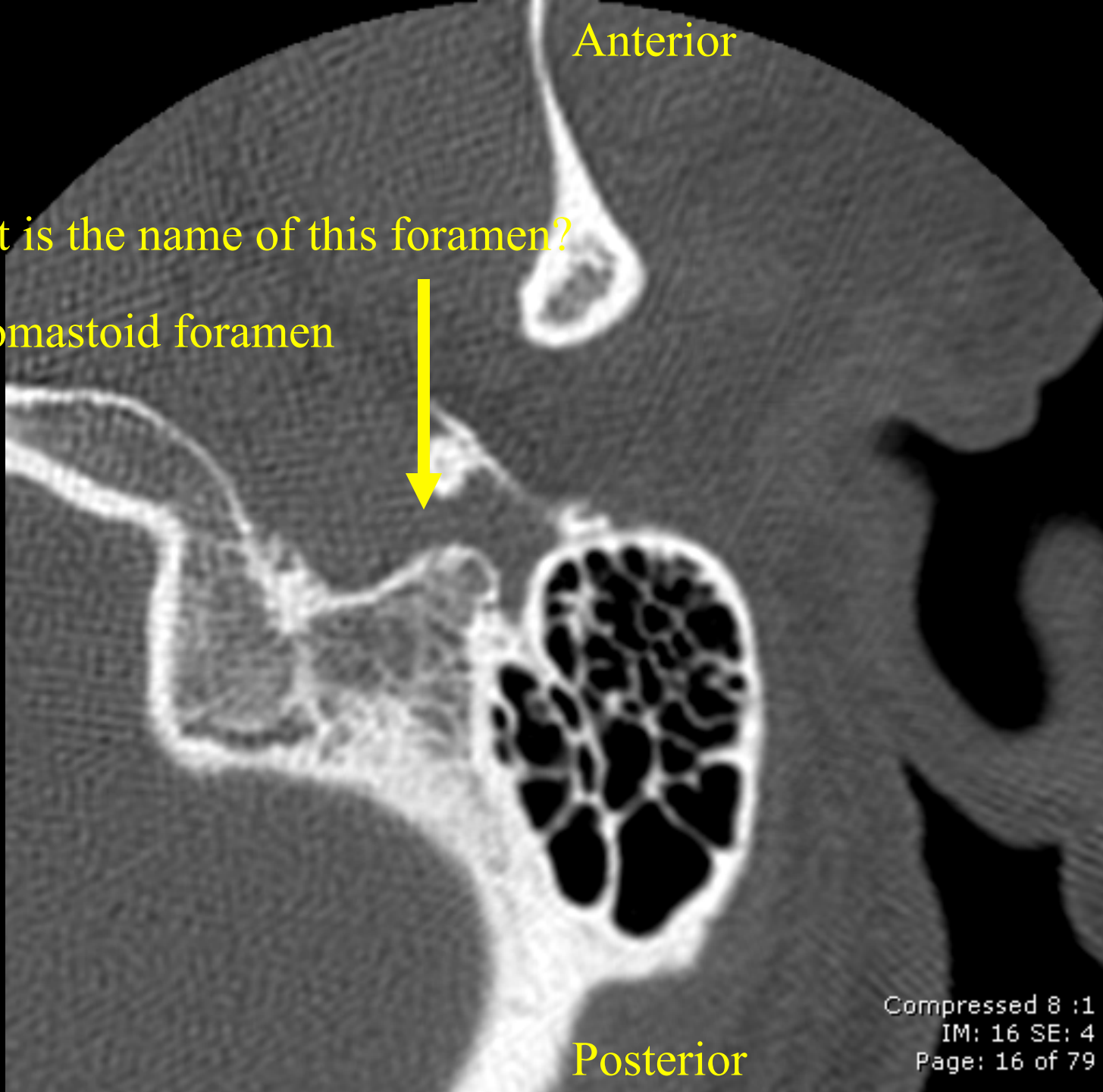


Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Q: What nerve exits here?

A: Facial nerve.



Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 19 SE: 4
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 20 SE: 4
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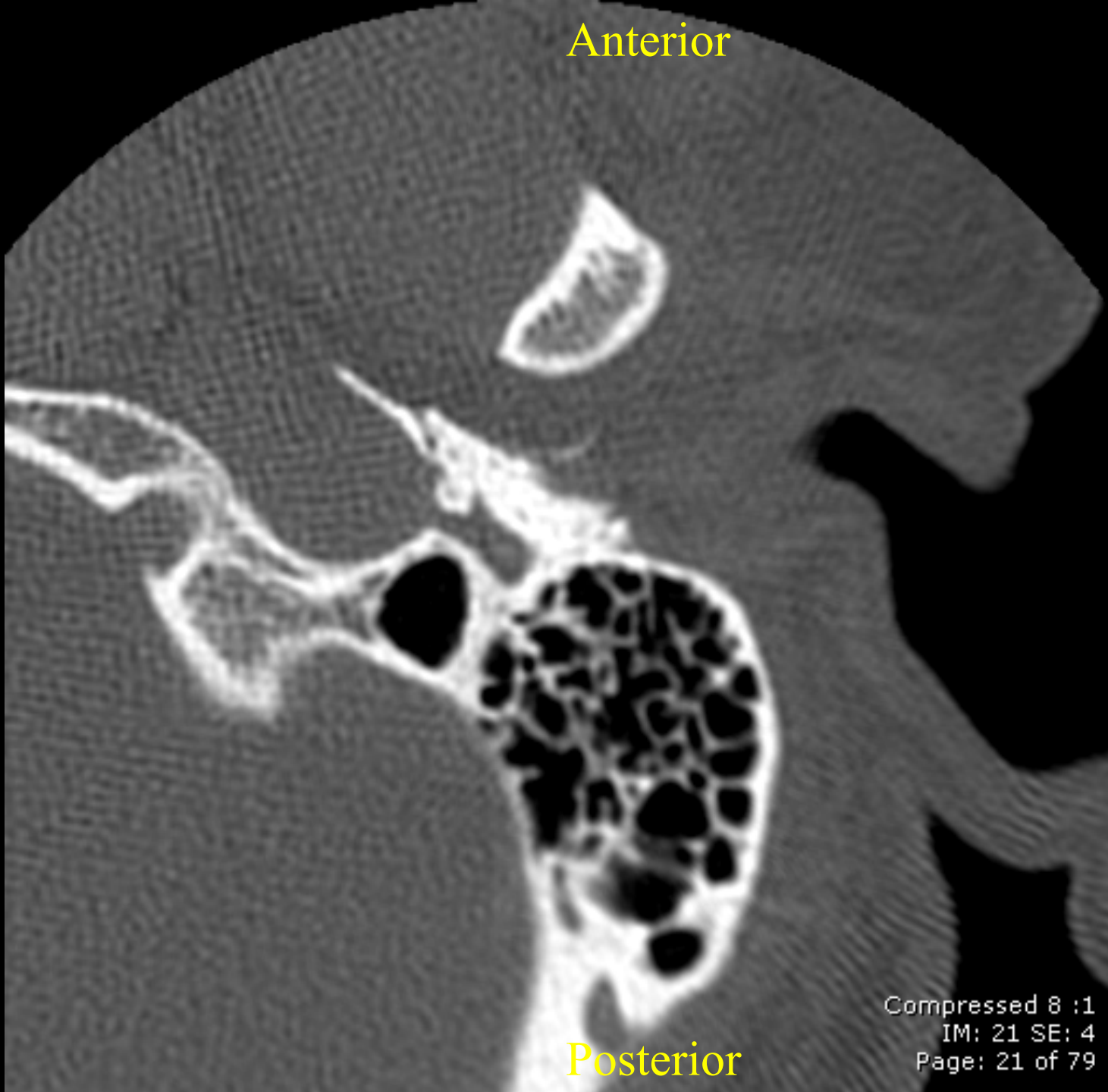
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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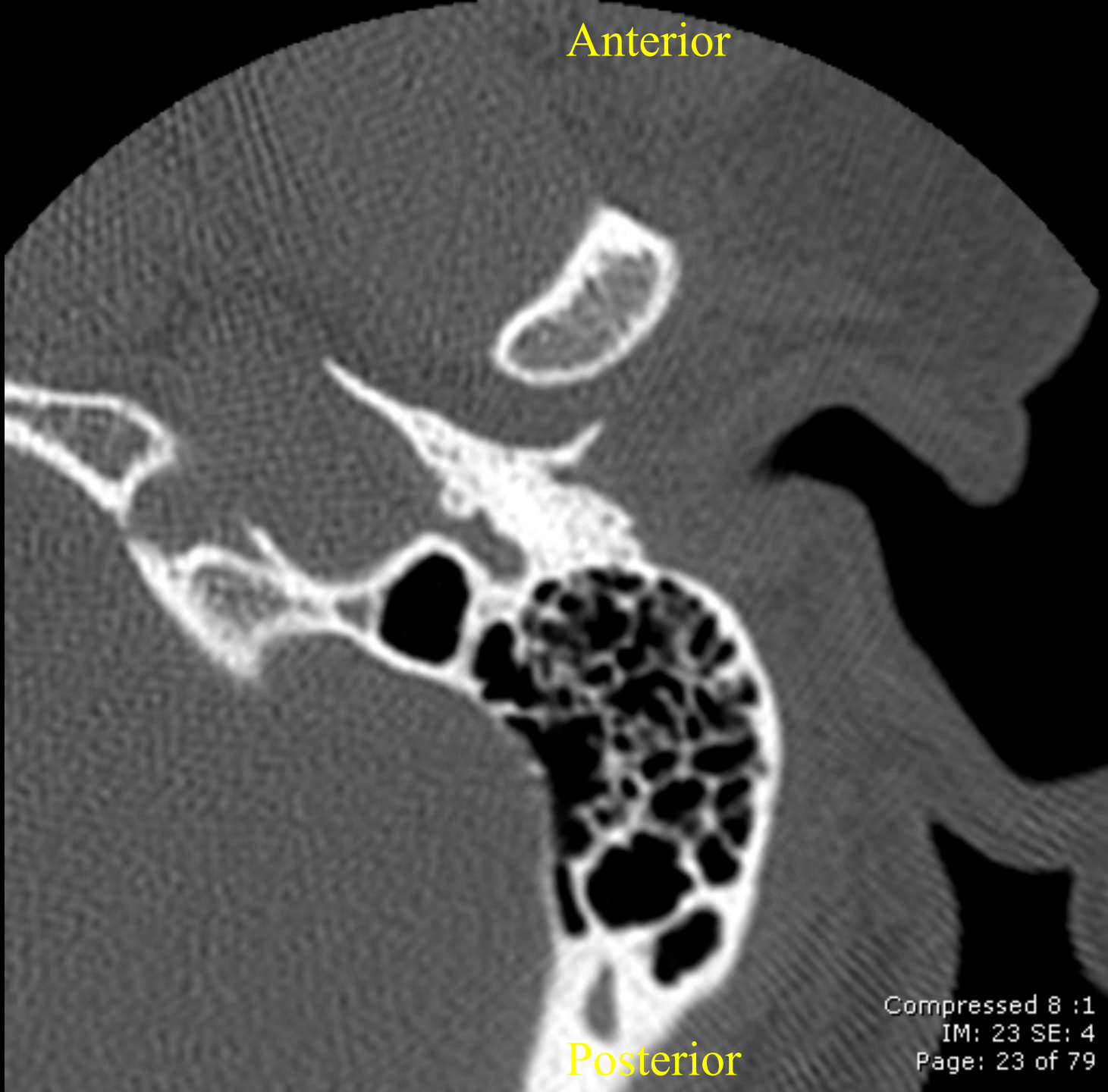


Anterior

Medial

Lateral

Posterior



Compressed 8 :1

IM: 23 SE: 4

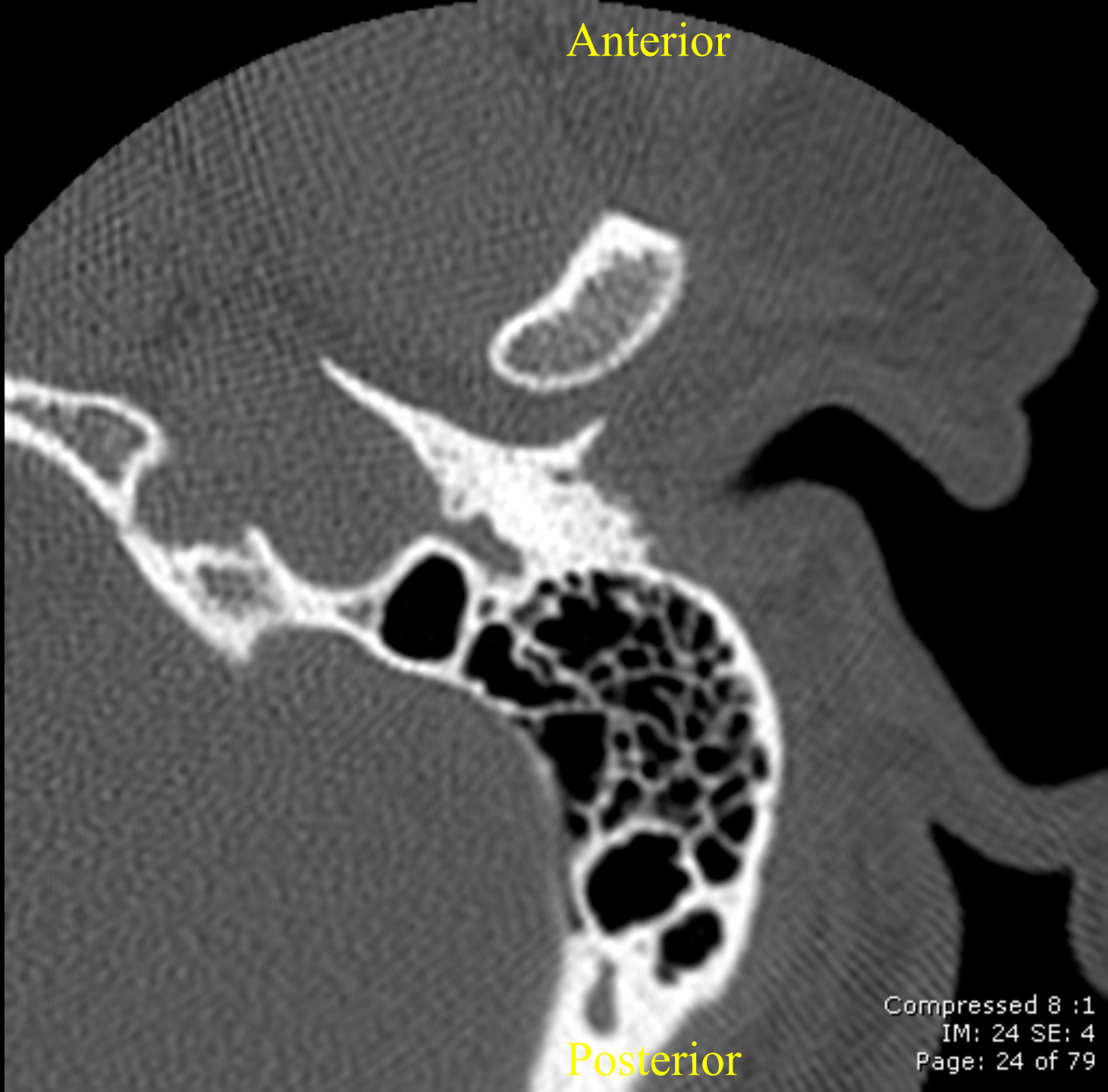
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Anterior

Medial

Lateral

Posterior



Compressed 8 :1
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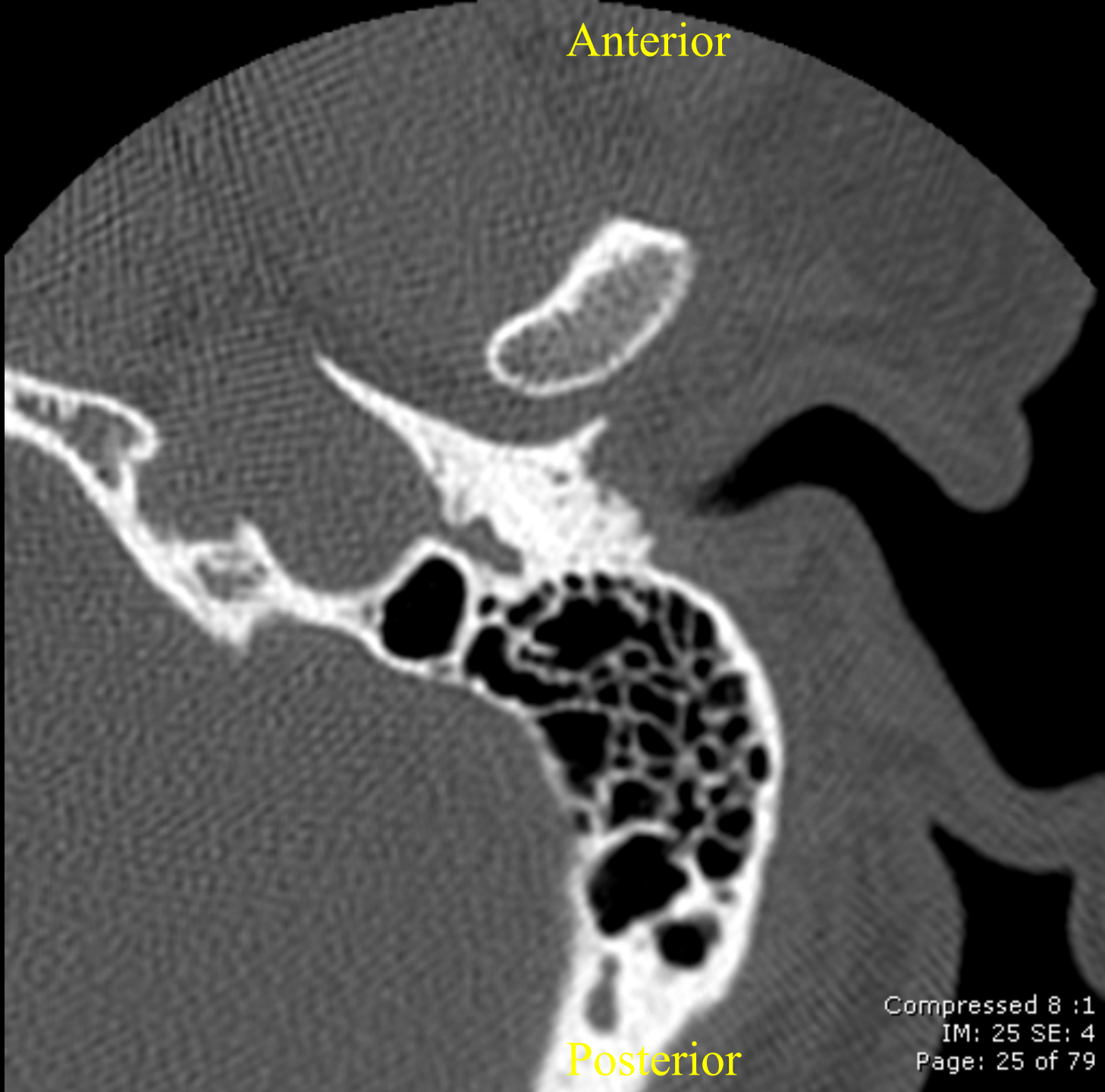
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 25 SE: 4
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Anterior

Q: What are the 5 divisions
of this nerve?

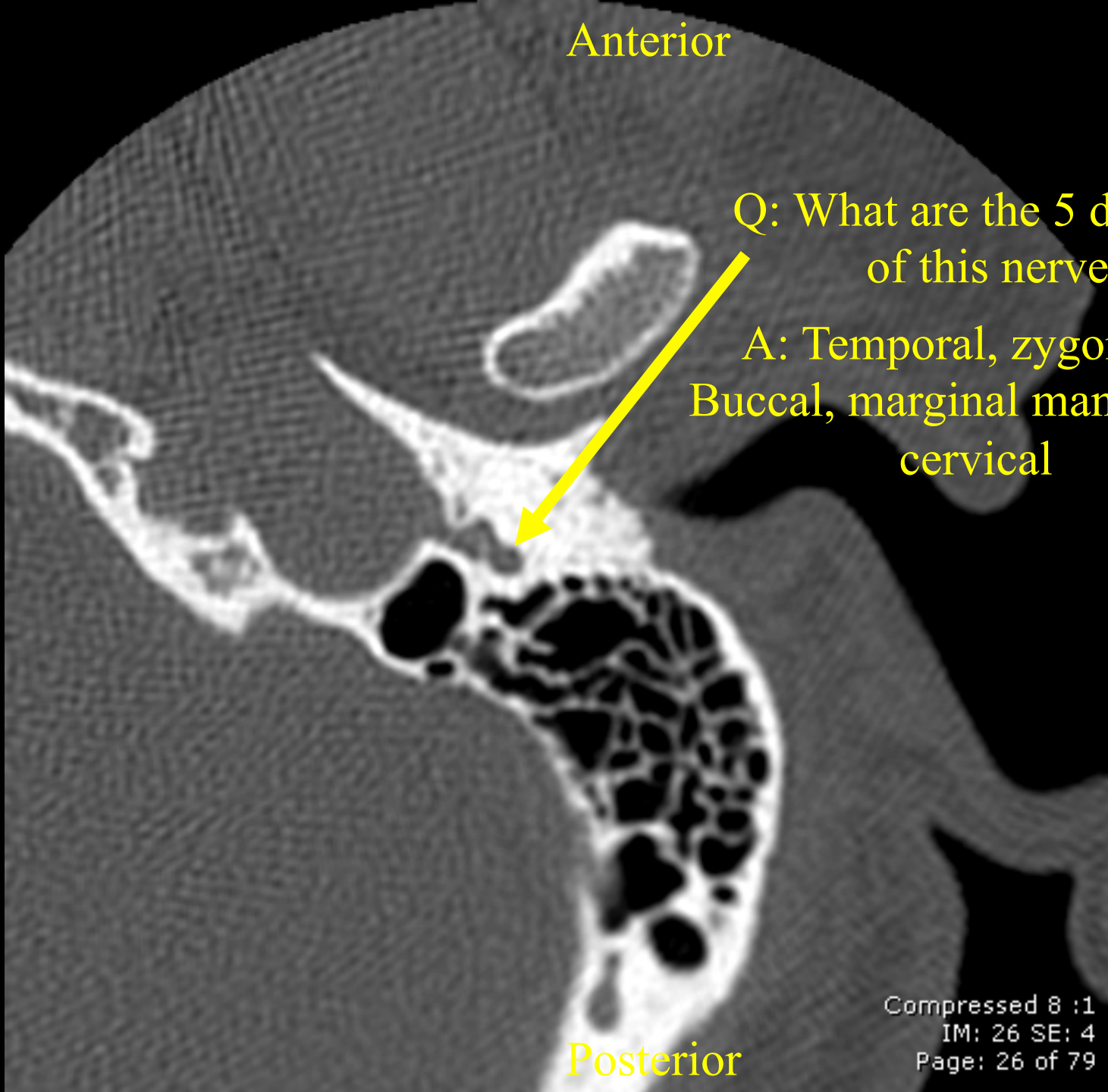
A: Temporal, zygomatic
Buccal, marginal mandibular,
cervical

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

A: External auditory canal

Q: What is this?

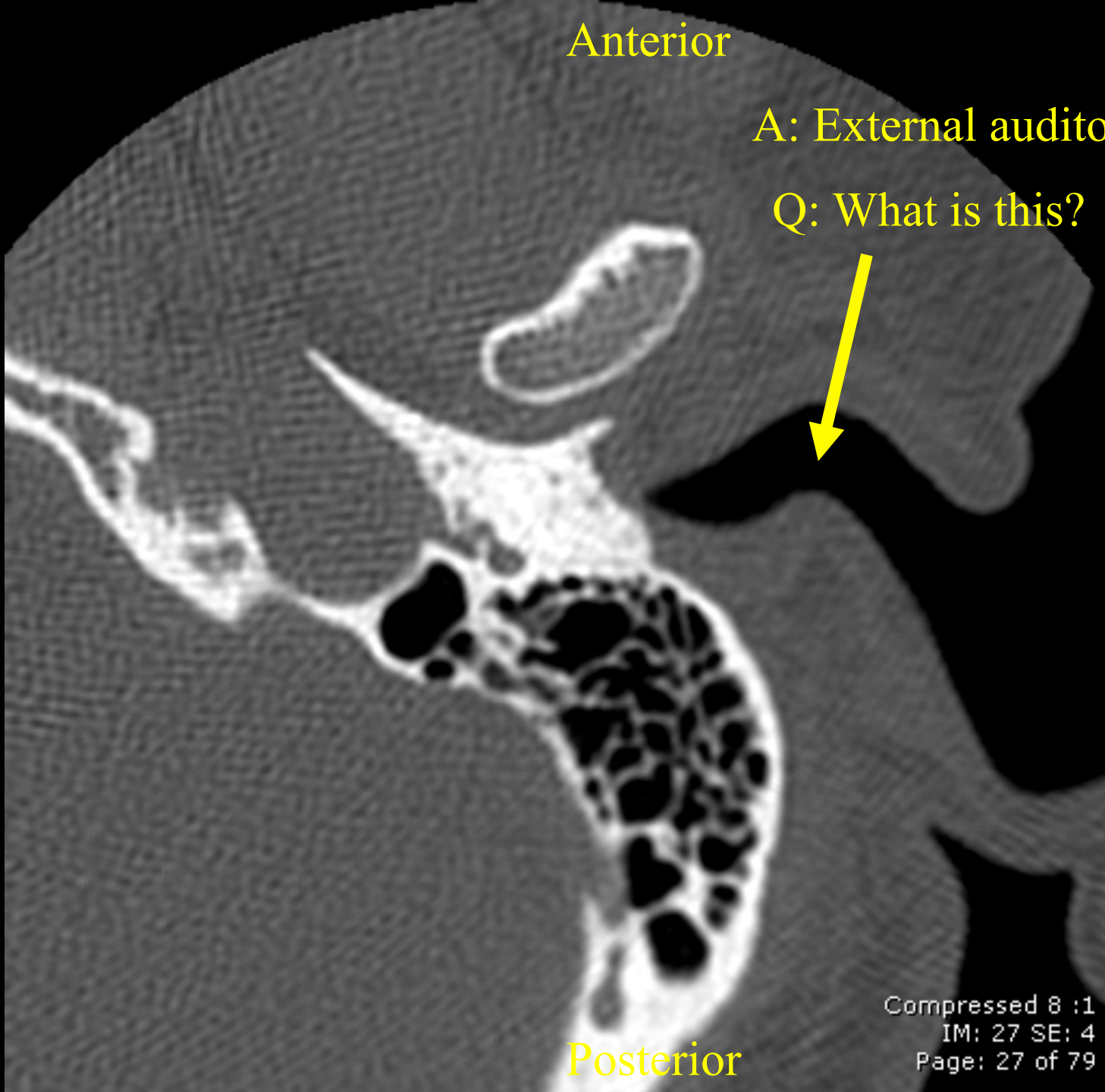


Medial

Lateral

Posterior

Compressed 8 :1
IM: 27 SE: 4
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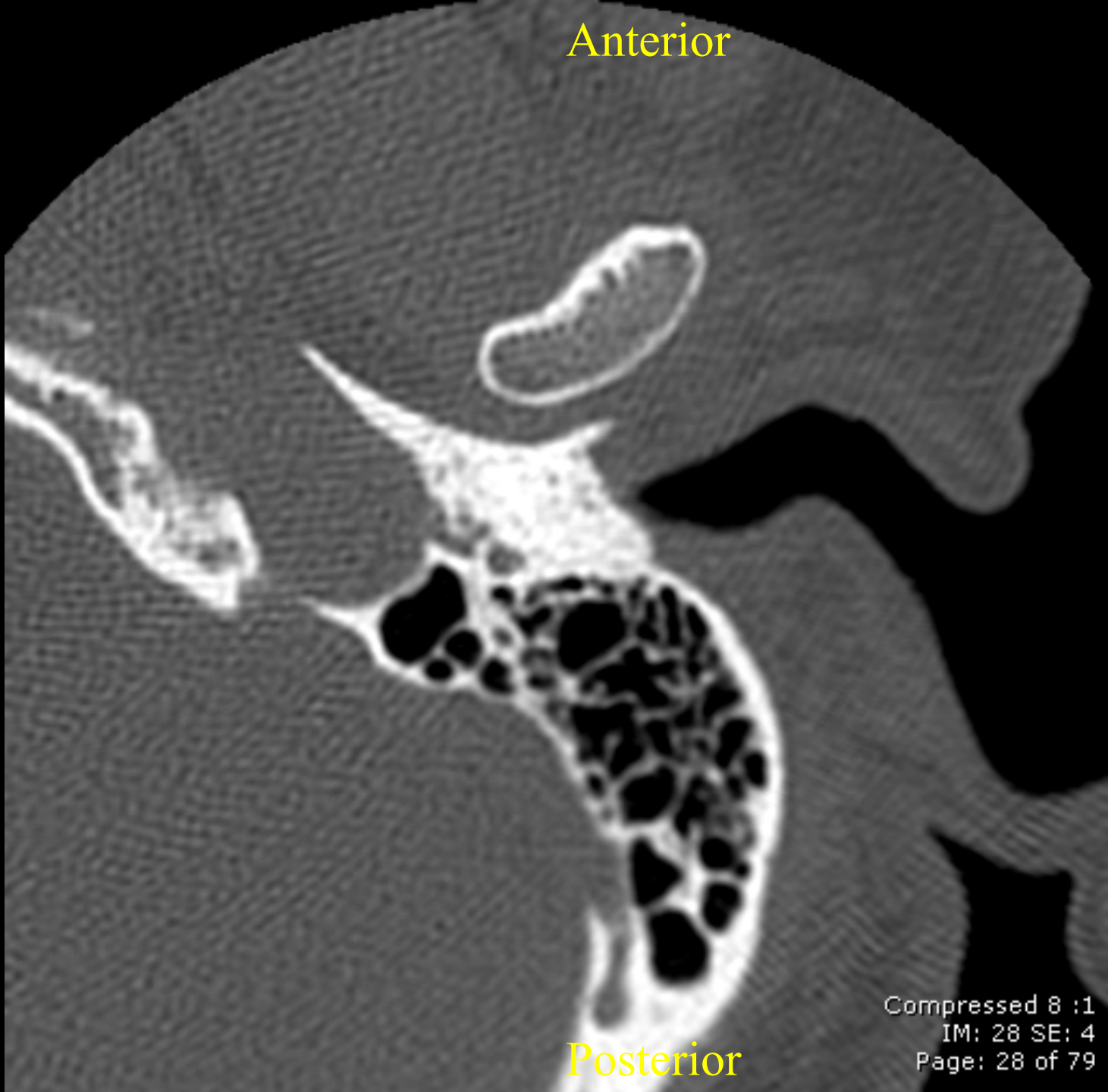


Anterior

Medial

Lateral

Posterior



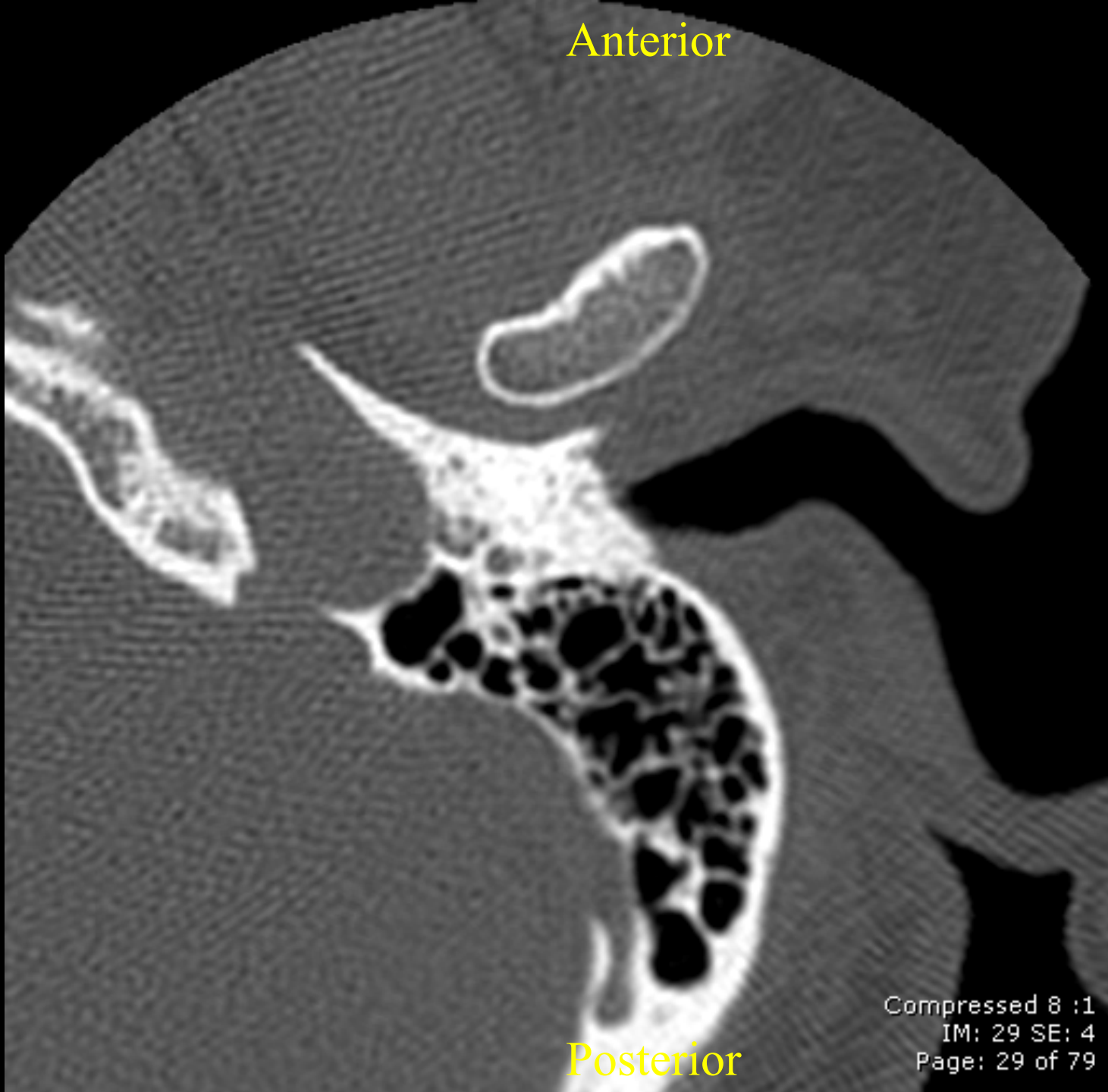
Compressed 8 :1
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Anterior

Medial

Lateral

Posterior



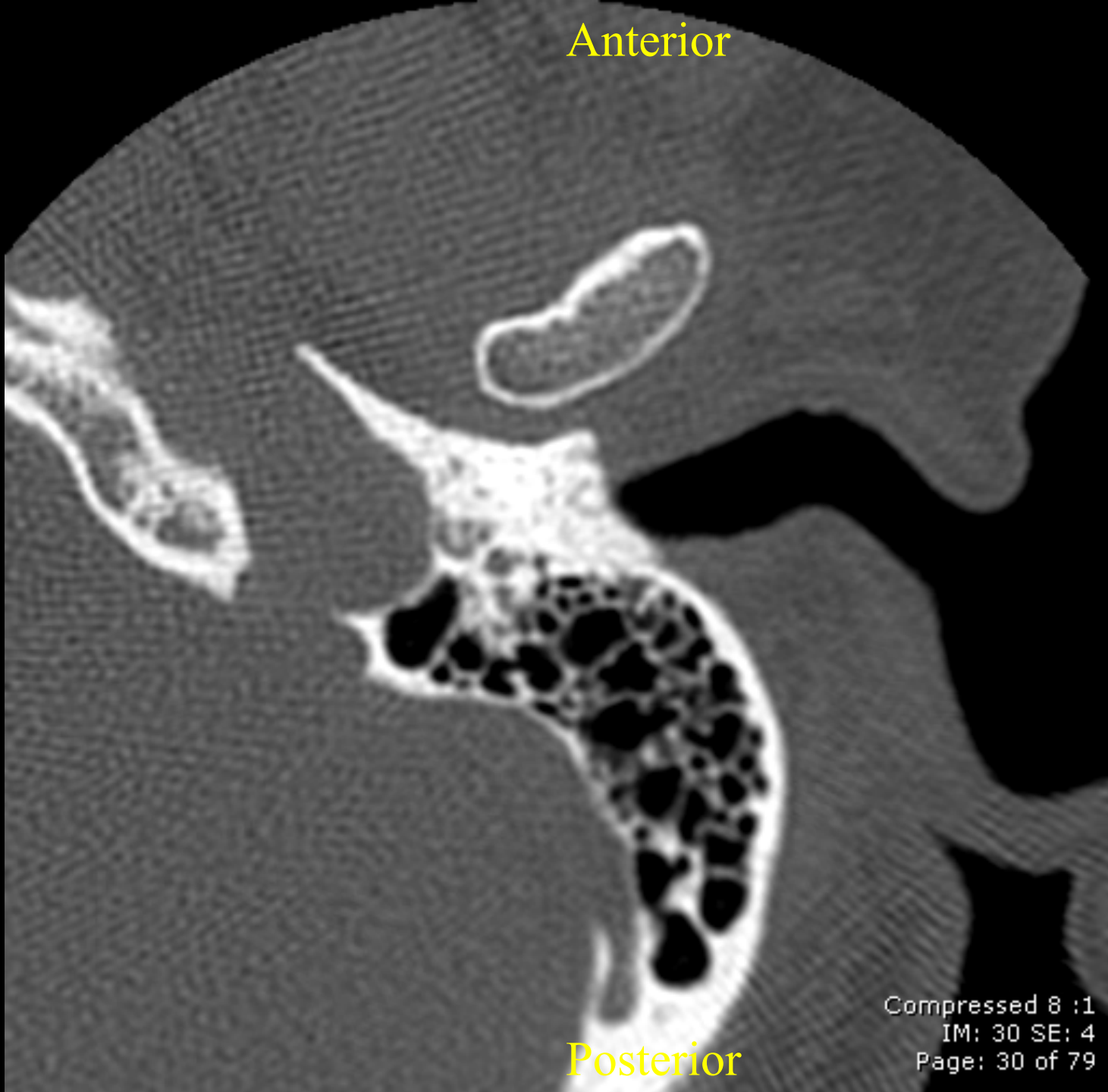
Compressed 8 :1
IM: 29 SE: 4
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Anterior

Medial

Lateral

Posterior



Compressed 8 :1
IM: 30 SE: 4
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 31 SE: 4
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 32 SE: 4
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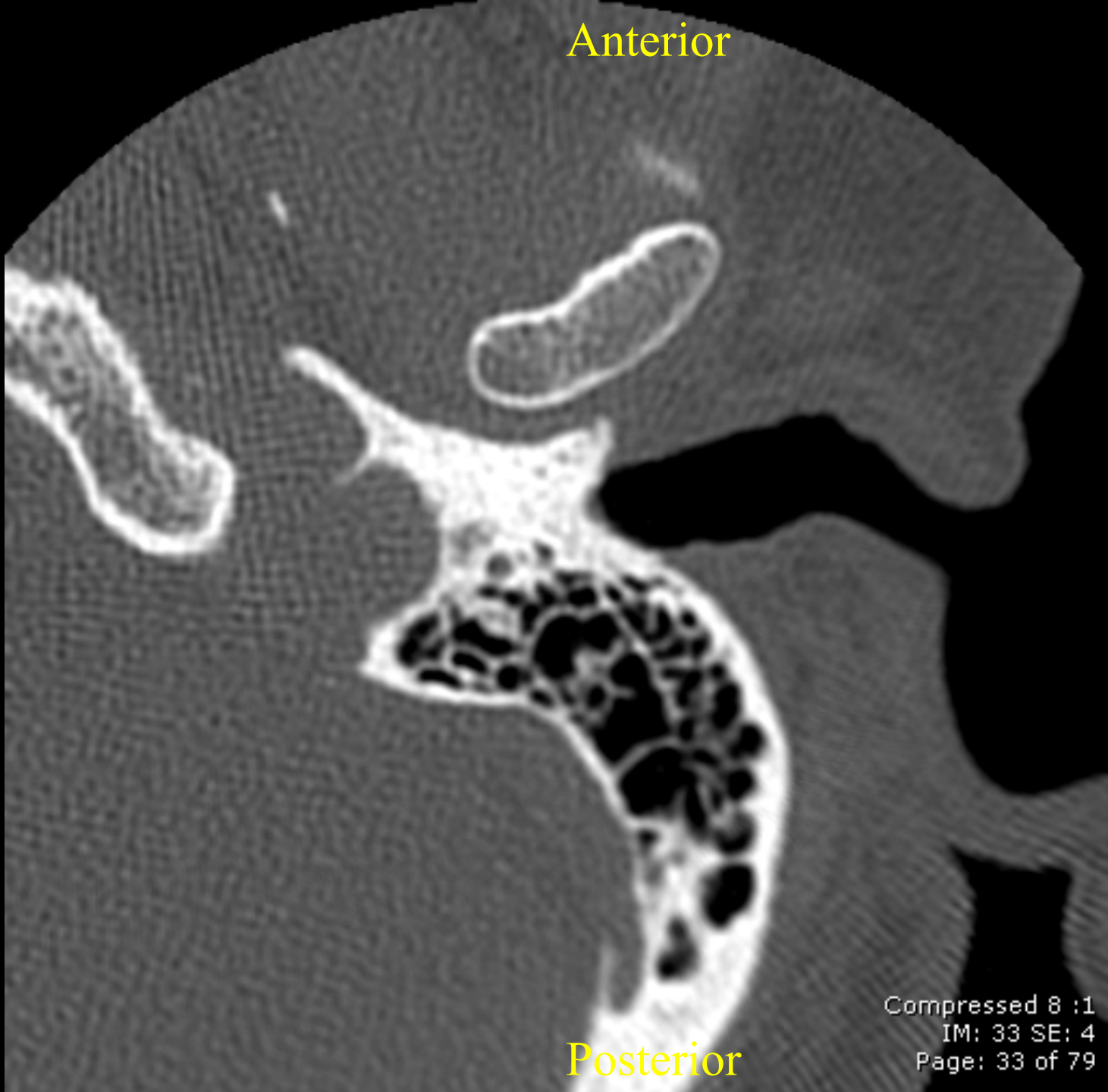
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 33 SE: 4
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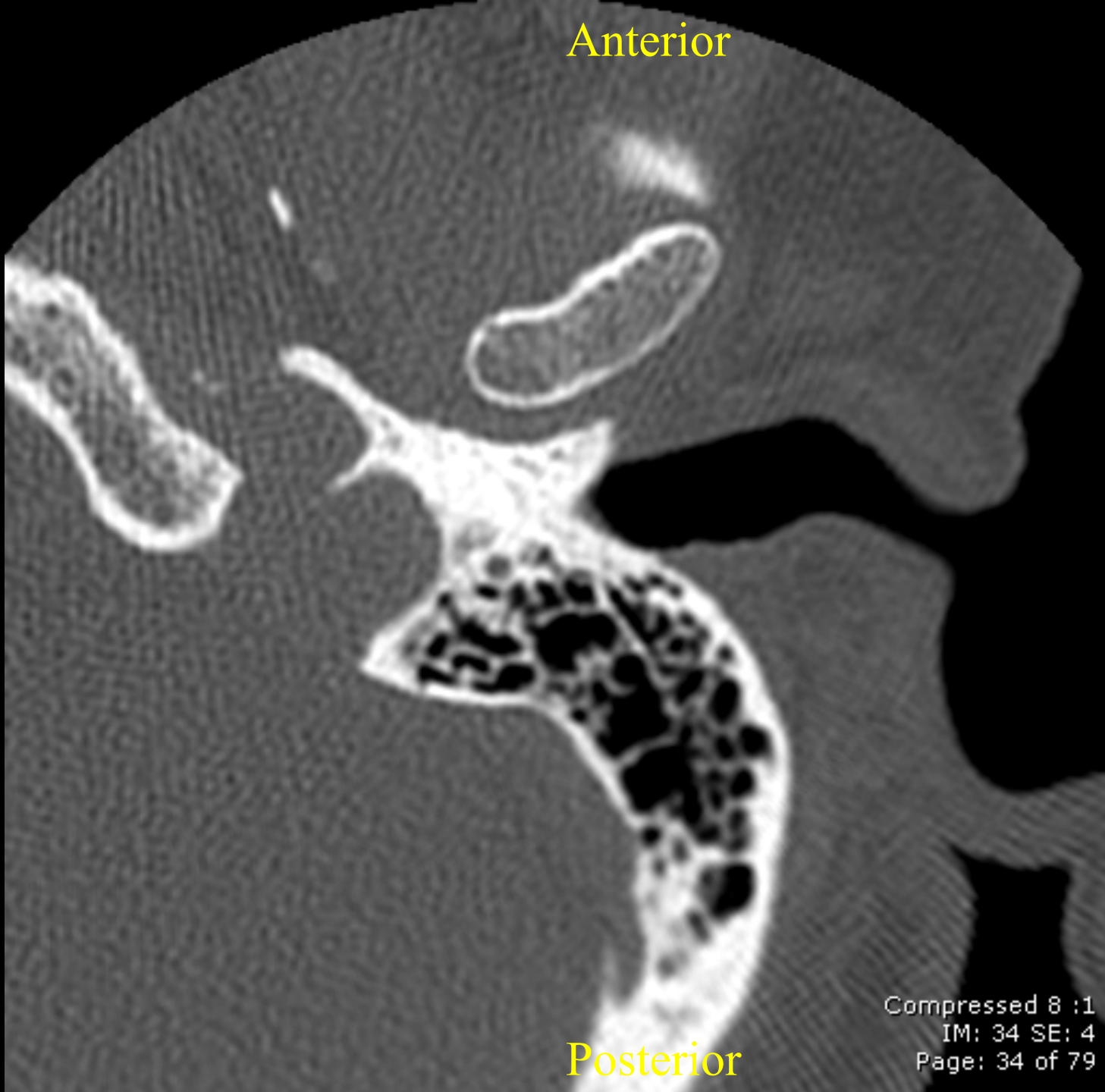
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 34 SE: 4
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Anterior

Medial

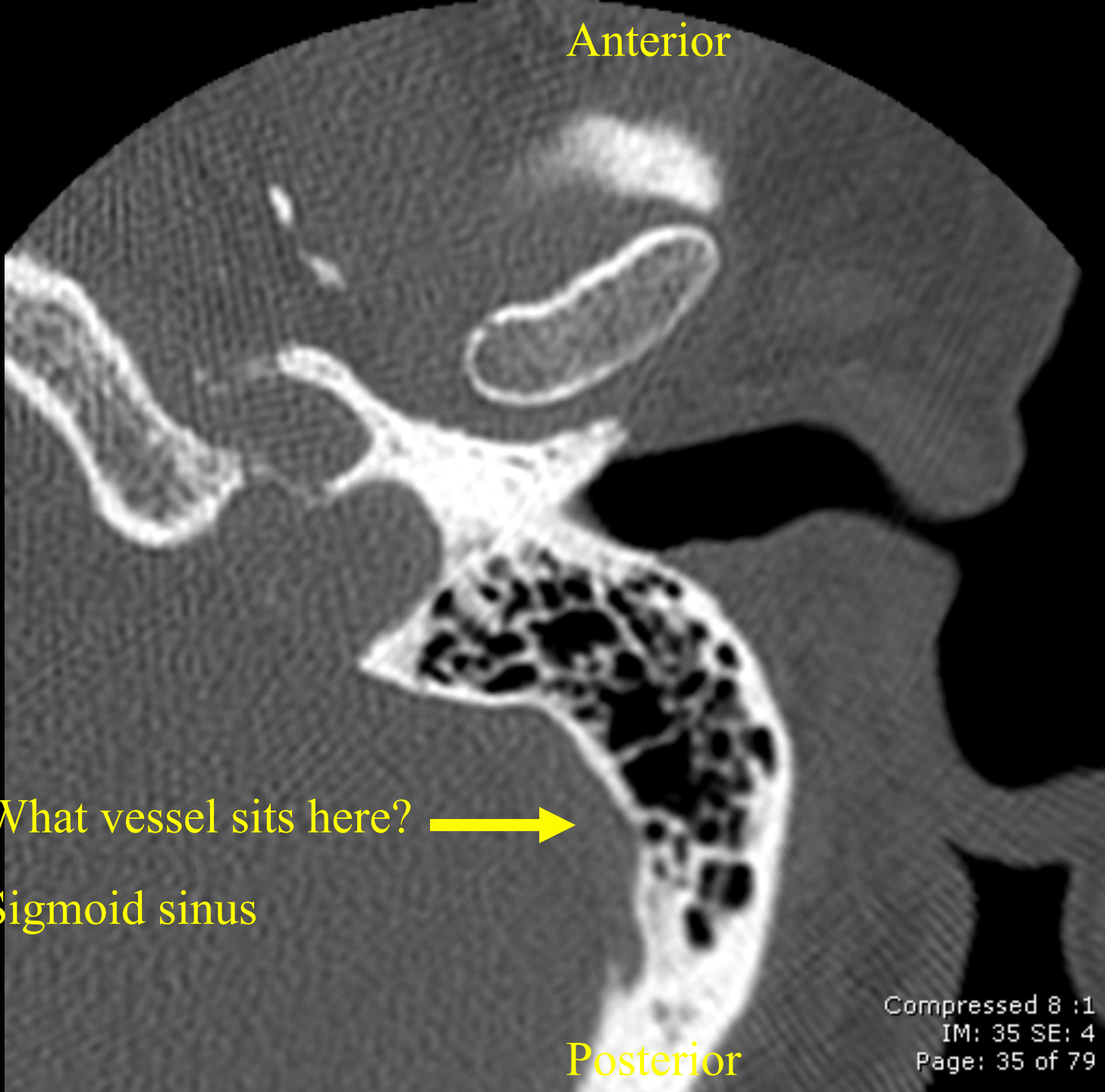
Lateral

Q: What vessel sits here? →

A: Sigmoid sinus

Posterior

Compressed 8 :1
IM: 35 SE: 4
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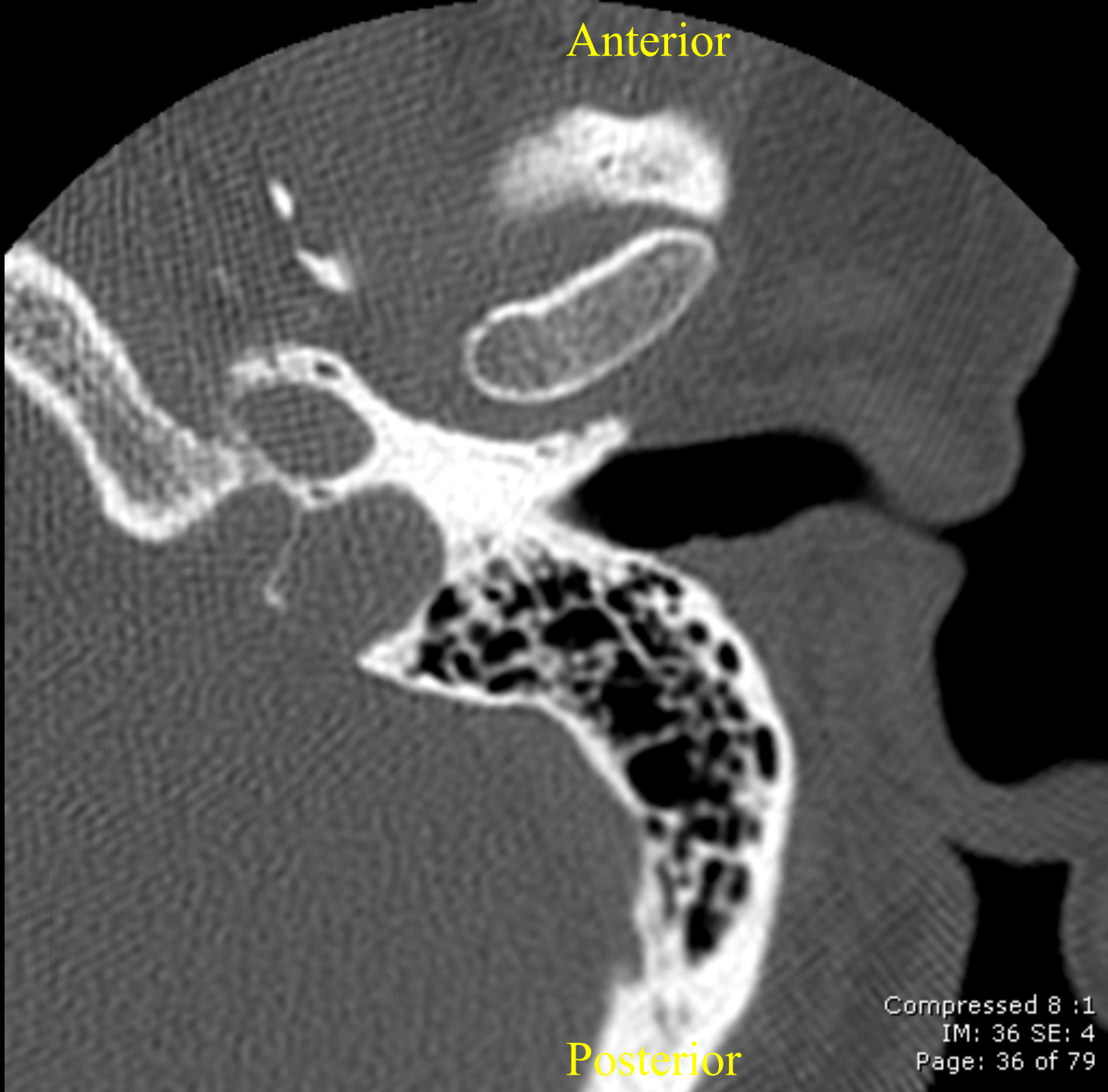
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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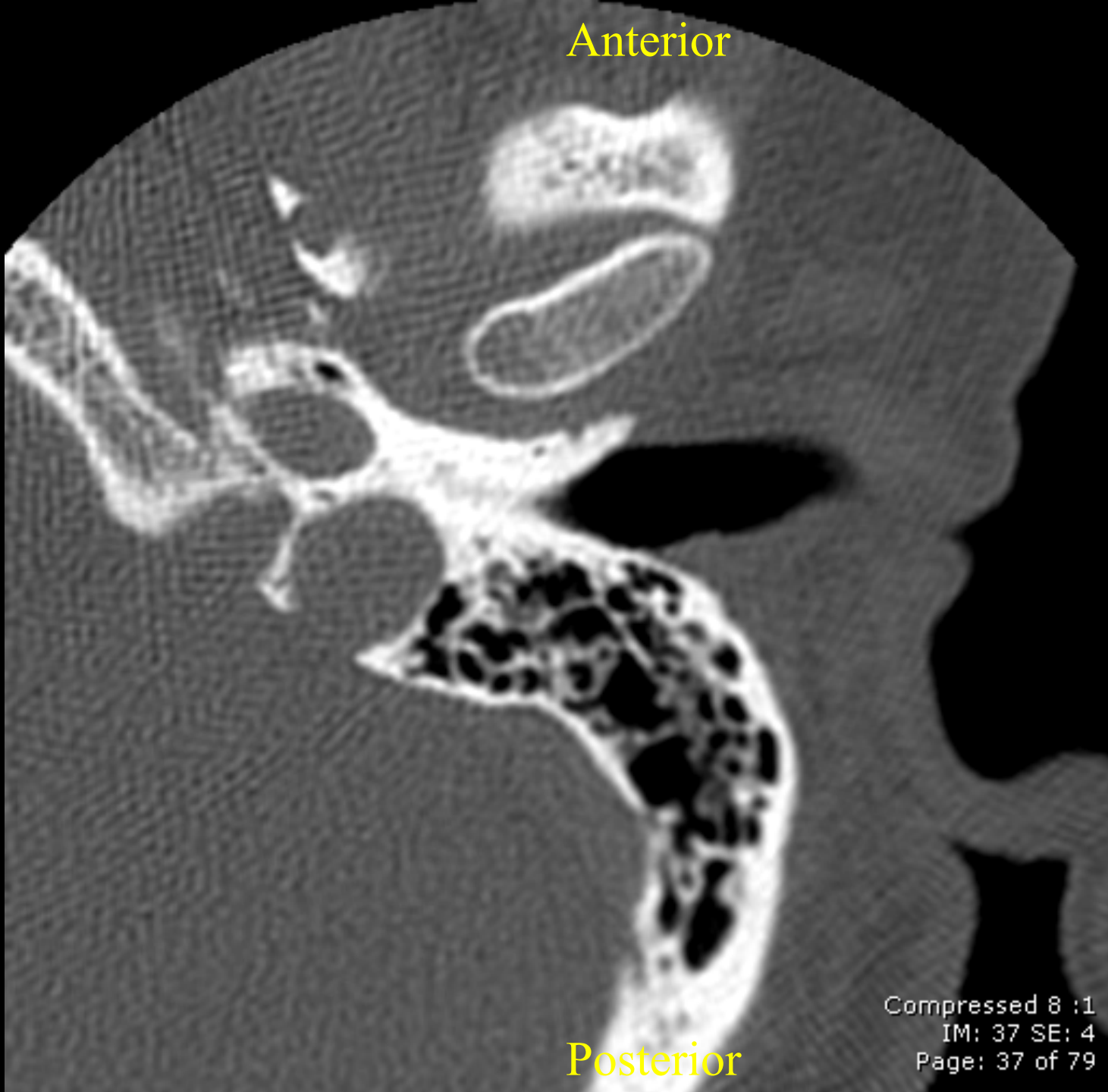
Anterior

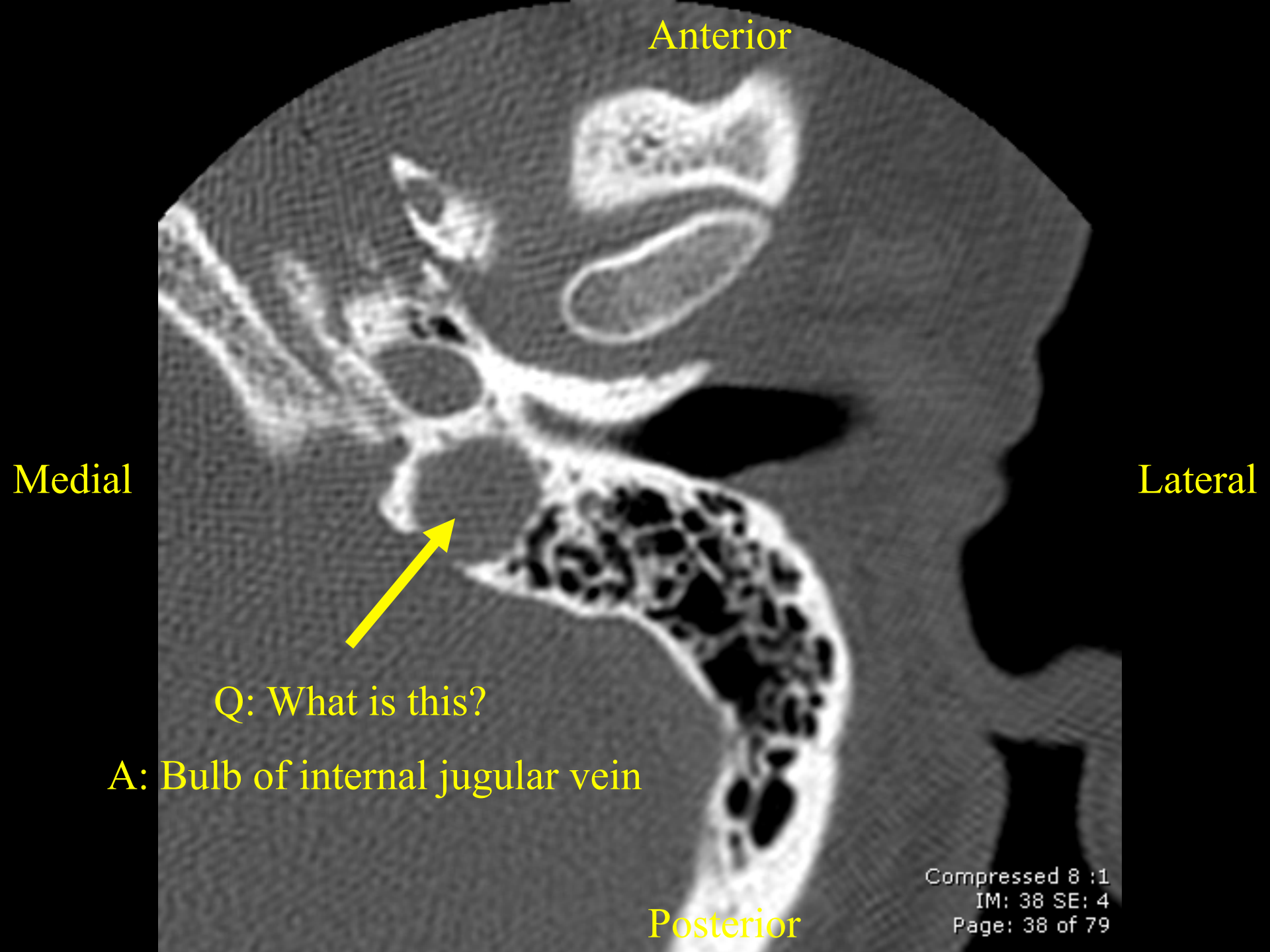
Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Q: What is this?

A: Bulb of internal jugular vein

Posterior

Compressed 8 :1
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Anterior

Q: What is this?

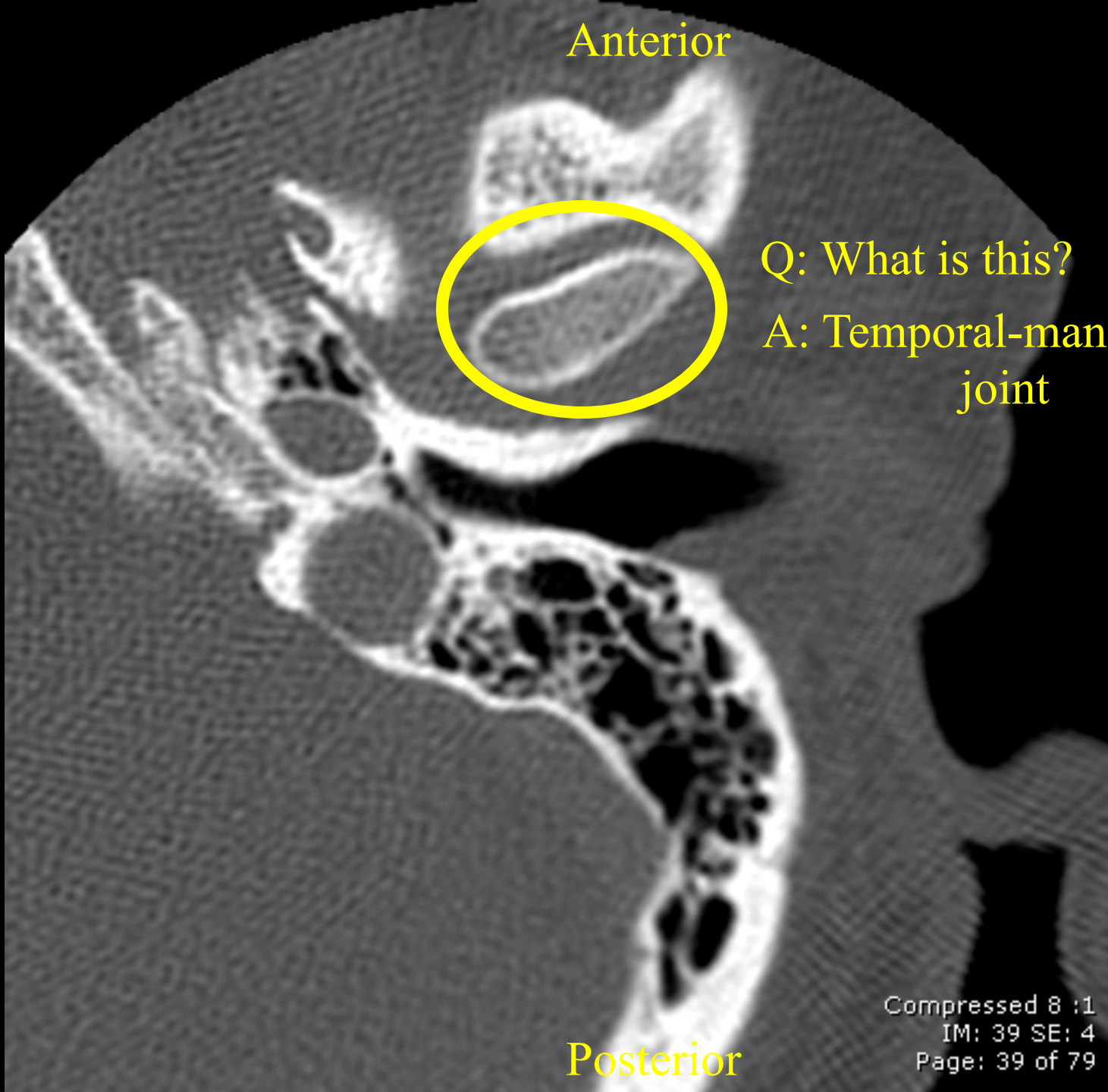
A: Temporal-mandibular
joint

Medial

Lateral

Posterior

Compressed 8 :1
IM: 39 SE: 4
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Anterior

Medial

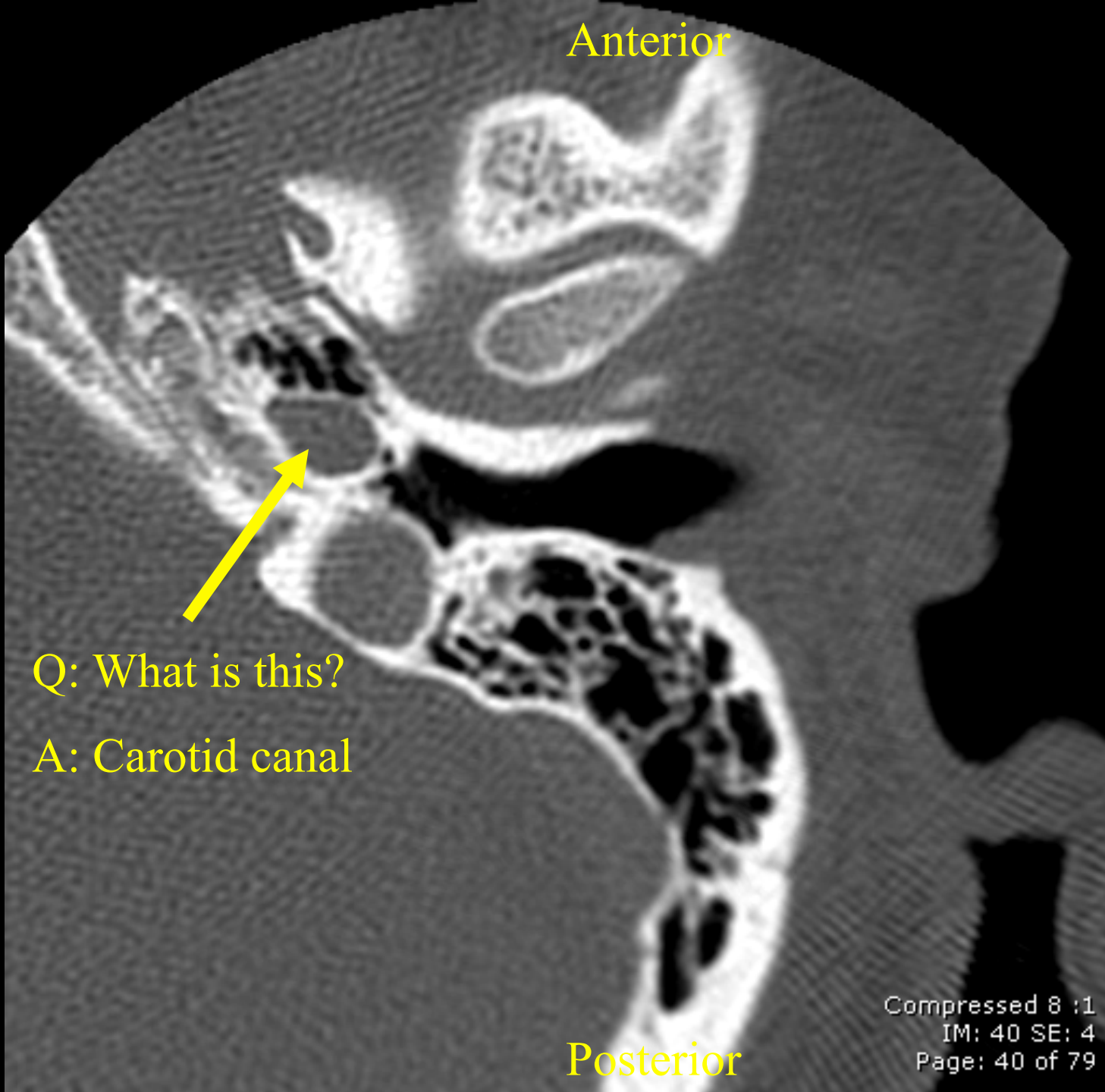
Lateral

Q: What is this?

A: Carotid canal

Posterior

Compressed 8 :1
IM: 40 SE: 4
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Anterior

Q: What is this?

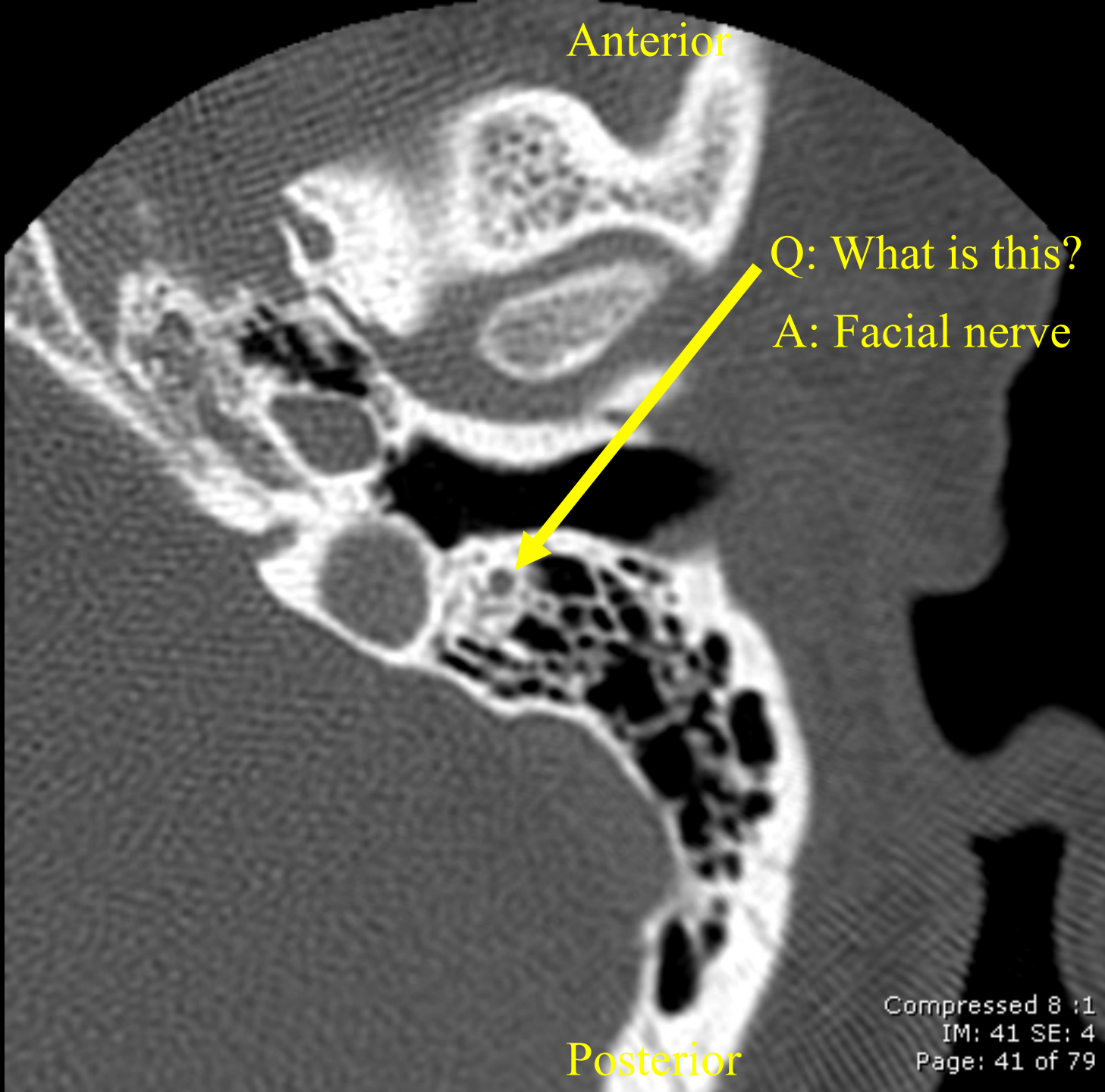
A: Facial nerve

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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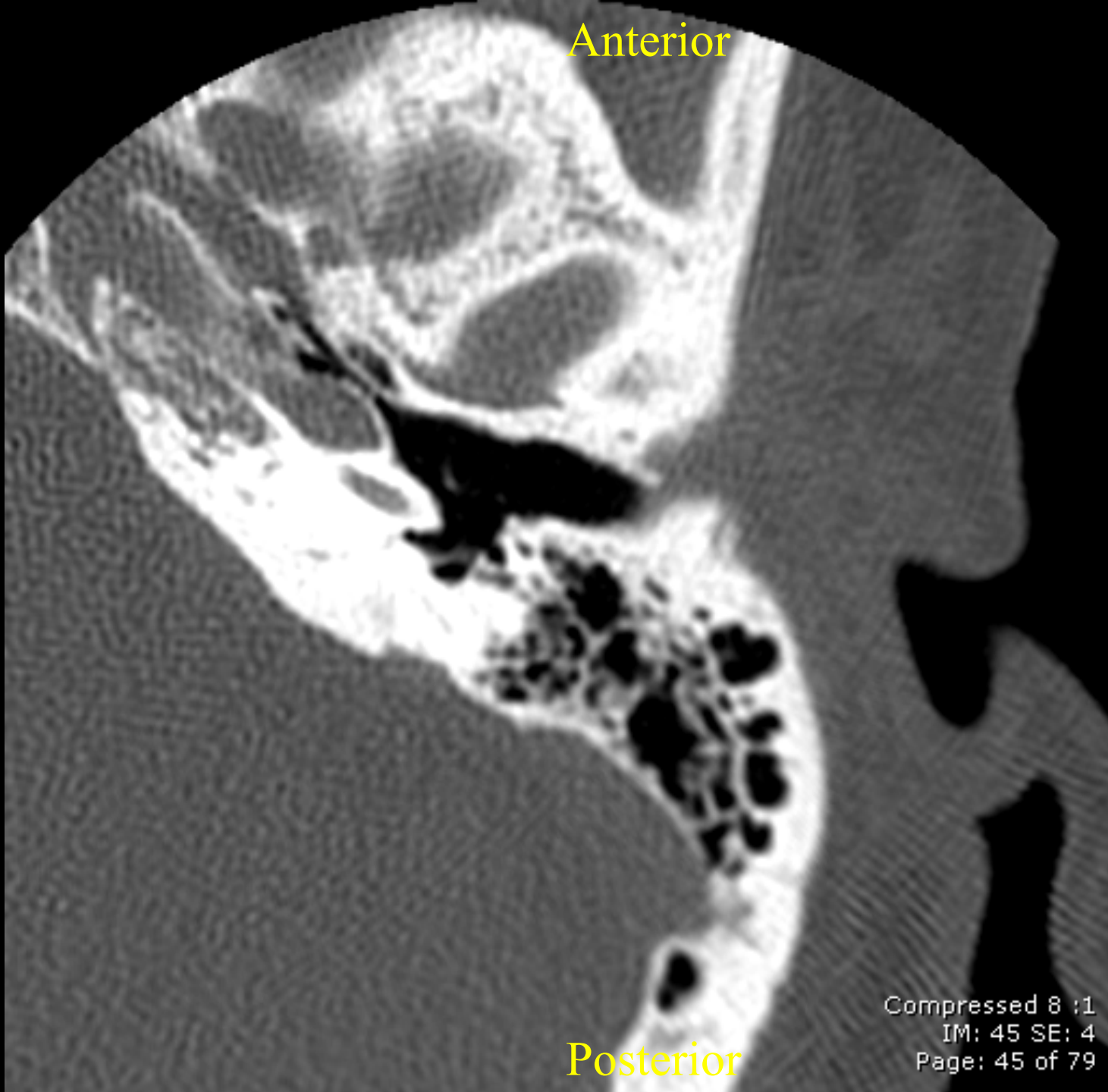
Anterior

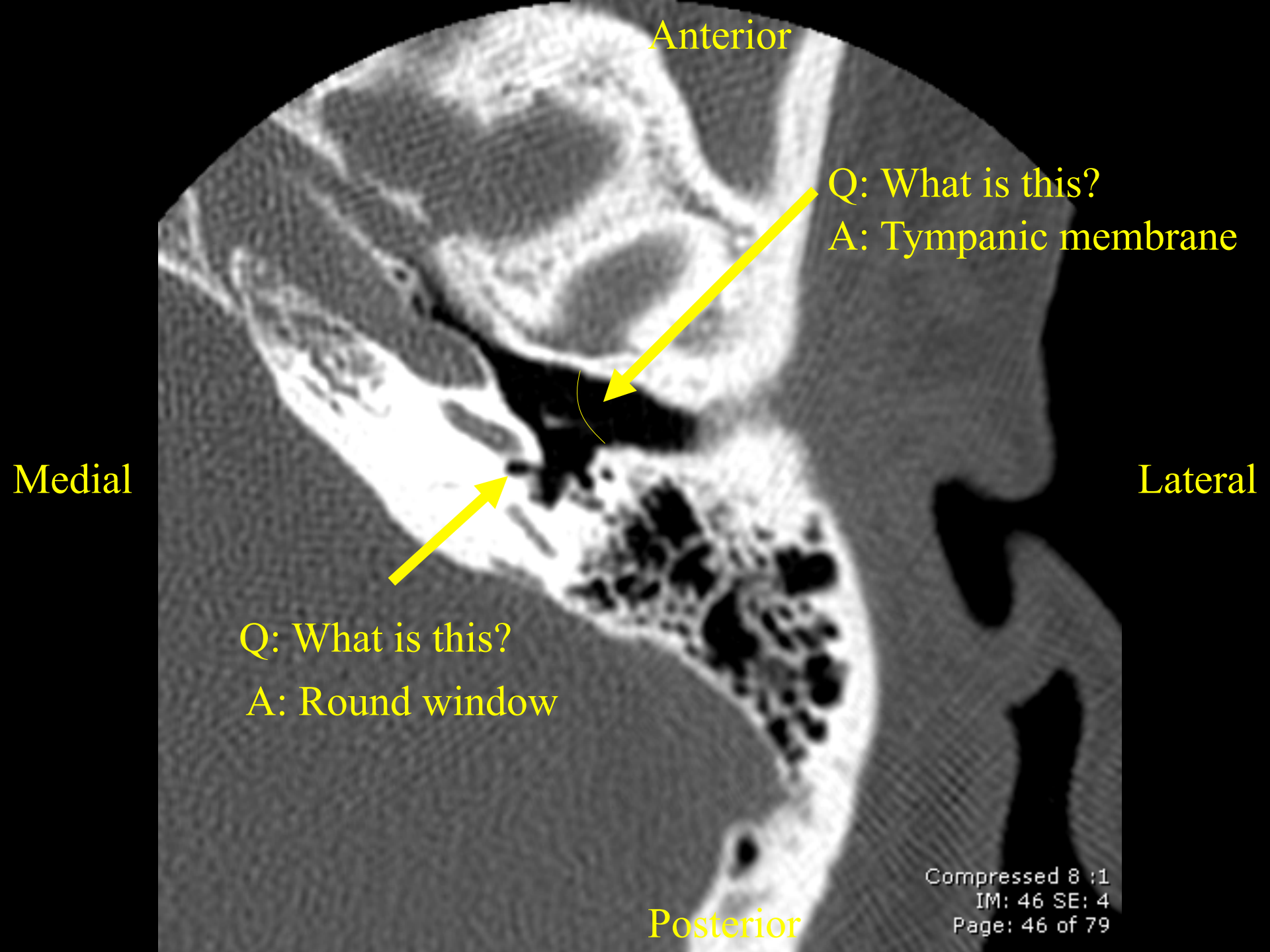
Medial

Lateral

Posterior

Compressed 8 :1
IM: 45 SE: 4
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Anterior

Q: What is this?

A: Tympanic membrane

Medial

Lateral

Q: What is this?

A: Round window

Posterior

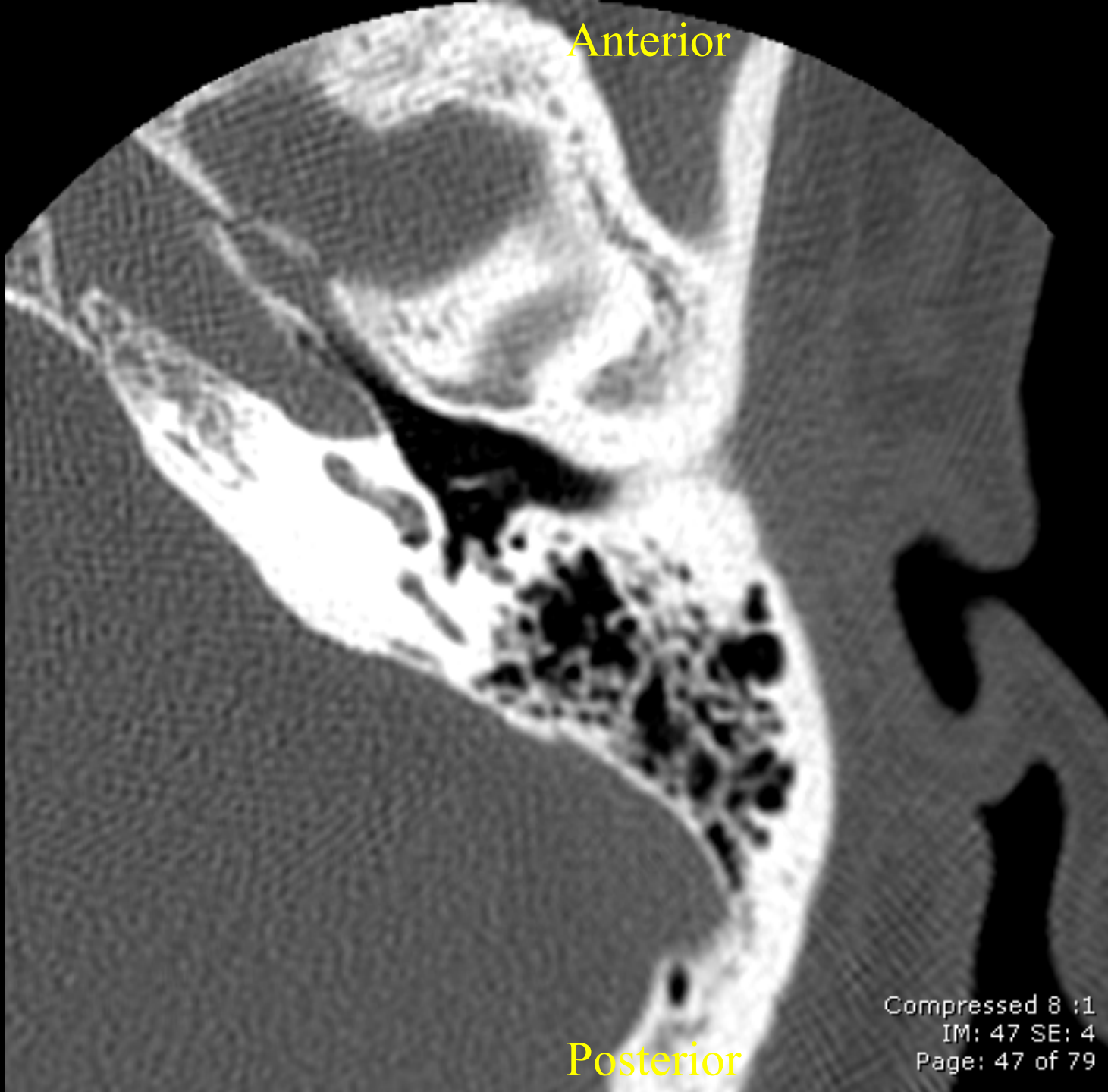
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Q: What is this?

A: Auditory tube

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Lateral

Q: What is this?

A: Incus

Posterior

Compressed 8 :1
IM: 49 SE: 4
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Anterior

Medial

Lateral

Q: What is this?

A: Malleus

Posterior

Compressed 8 :1
IM: 50 SE: 4
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Anterior

A: Lateral semicircular canal

Q: What is this?

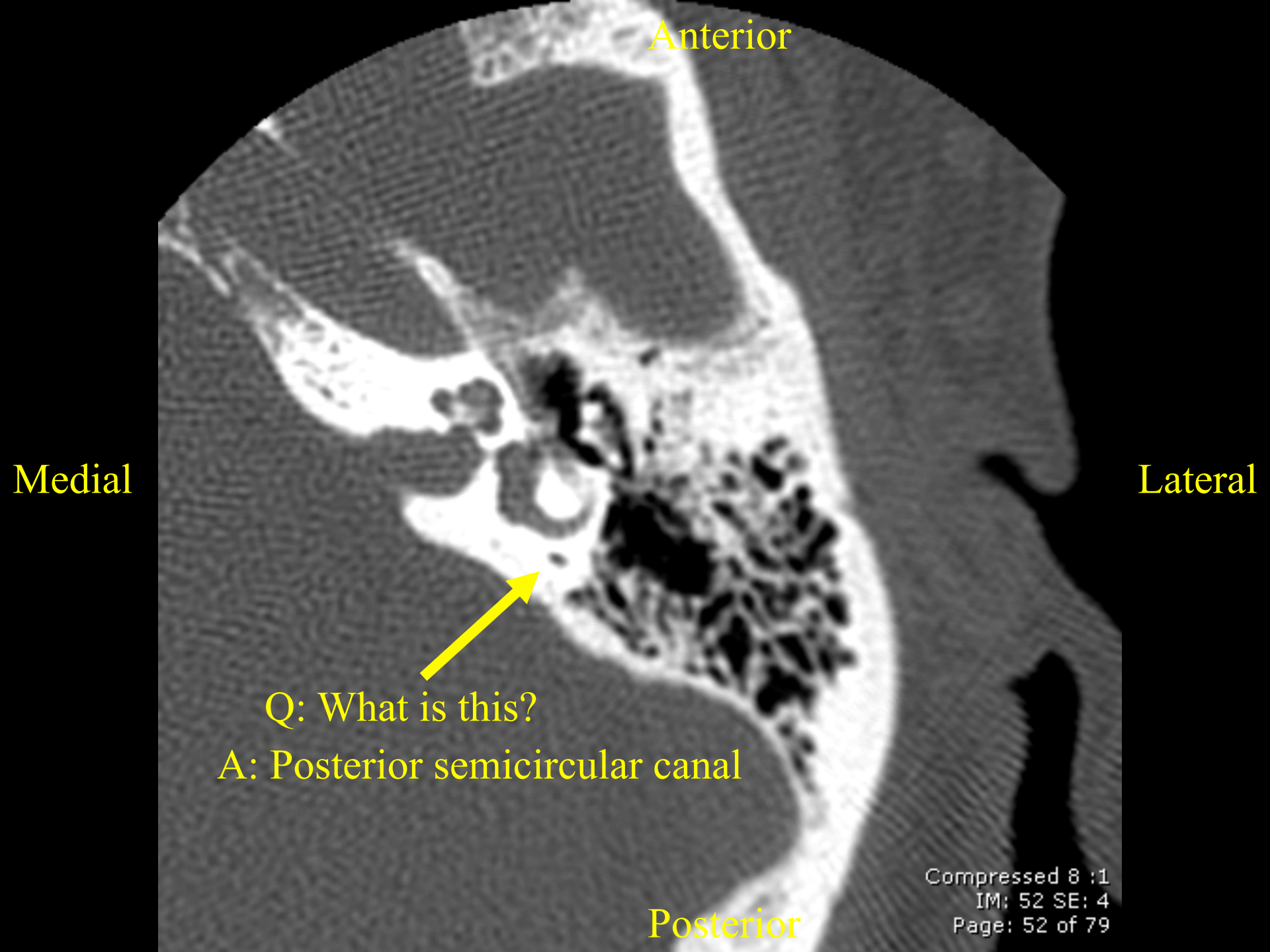
Medial

Lateral

Posterior

Compressed 8 :1
IM: 51 SE: 4
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Anterior

Medial

Lateral

Q: What is this?

A: Posterior semicircular canal

Posterior

Compressed 8 :1
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Anterior

Q: What is this?

A: Cochlea

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

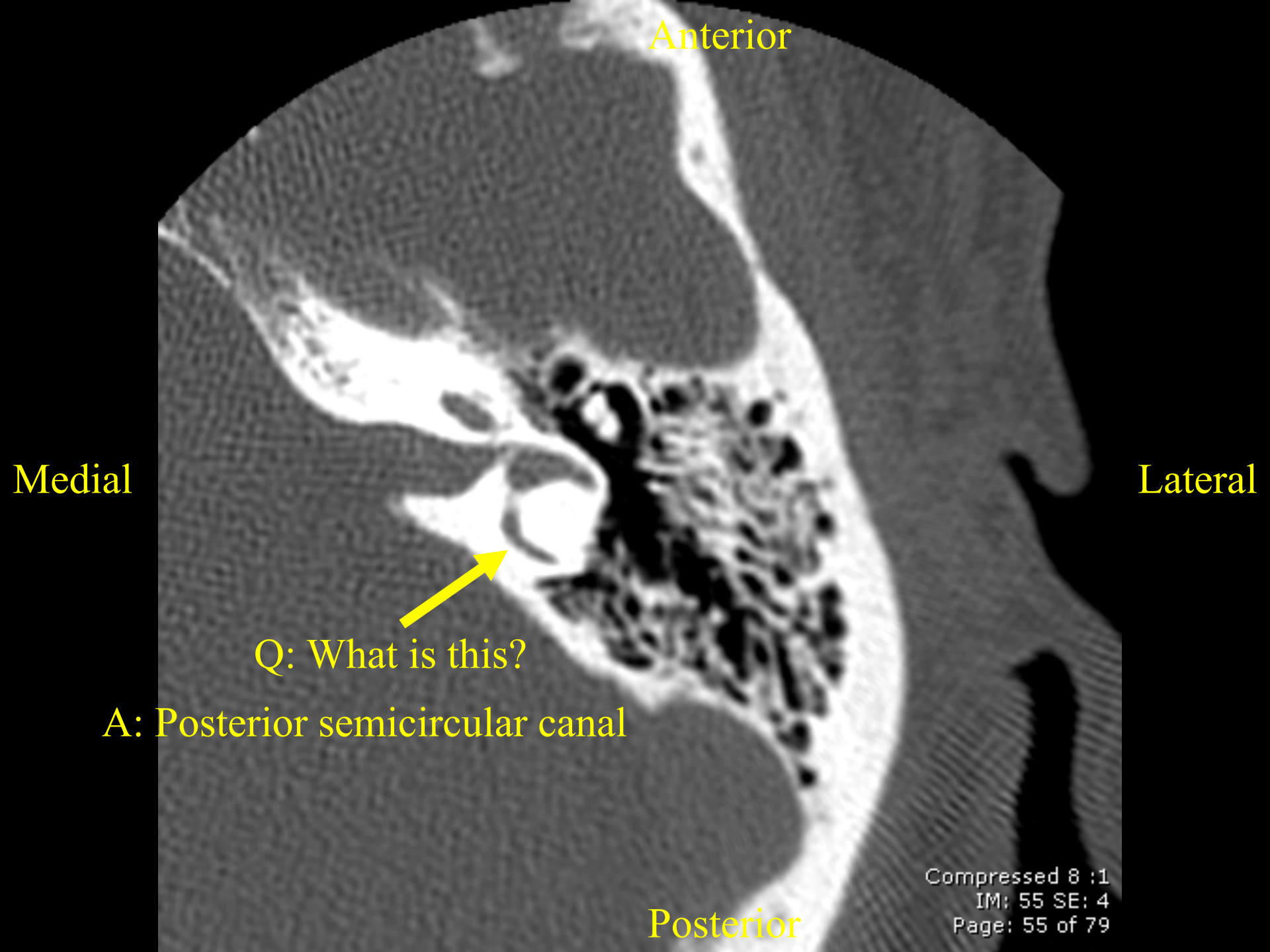
Medial

Lateral

Posterior

Compressed 8 :1
IM: 54 SE: 4
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Anterior

Medial

Lateral

Q: What is this?

A: Posterior semicircular canal

Posterior

Compressed 8 :1
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Anterior

Q: What is the name of this ganglion?

A: Geniculate ganglion



Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Q: What travels in here?

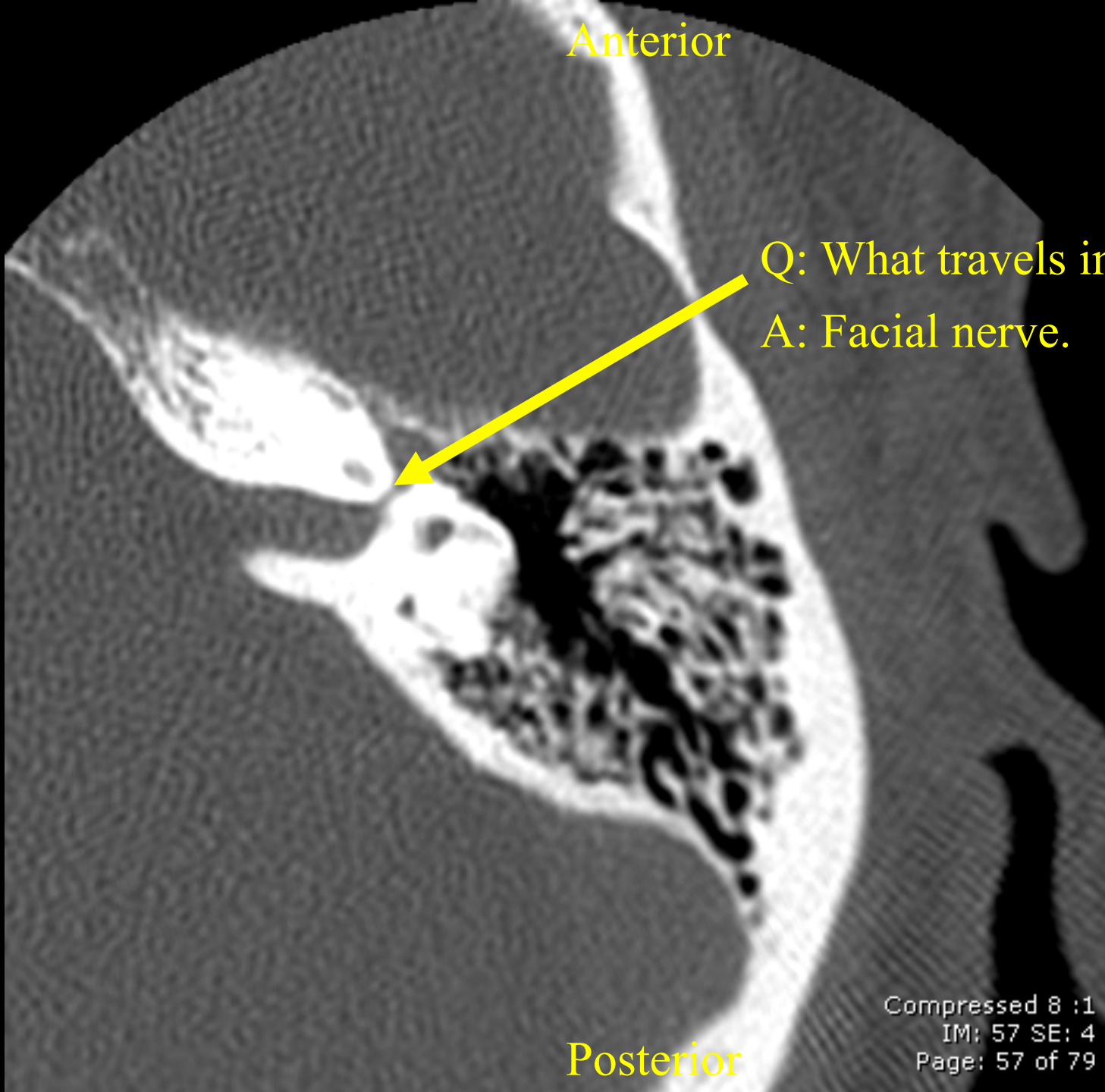
A: Facial nerve.

Medial

Lateral

Posterior

Compressed 8 :1
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Anterior

Medial

Q: What is this?



Lateral

A: Internal auditory canal

Q2: What nerves travel here?

A2: Facial and vestibulocochlear nerves

Posterior

Compressed 8 :1
IM: 58 SE: 4
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Anterior

Medial

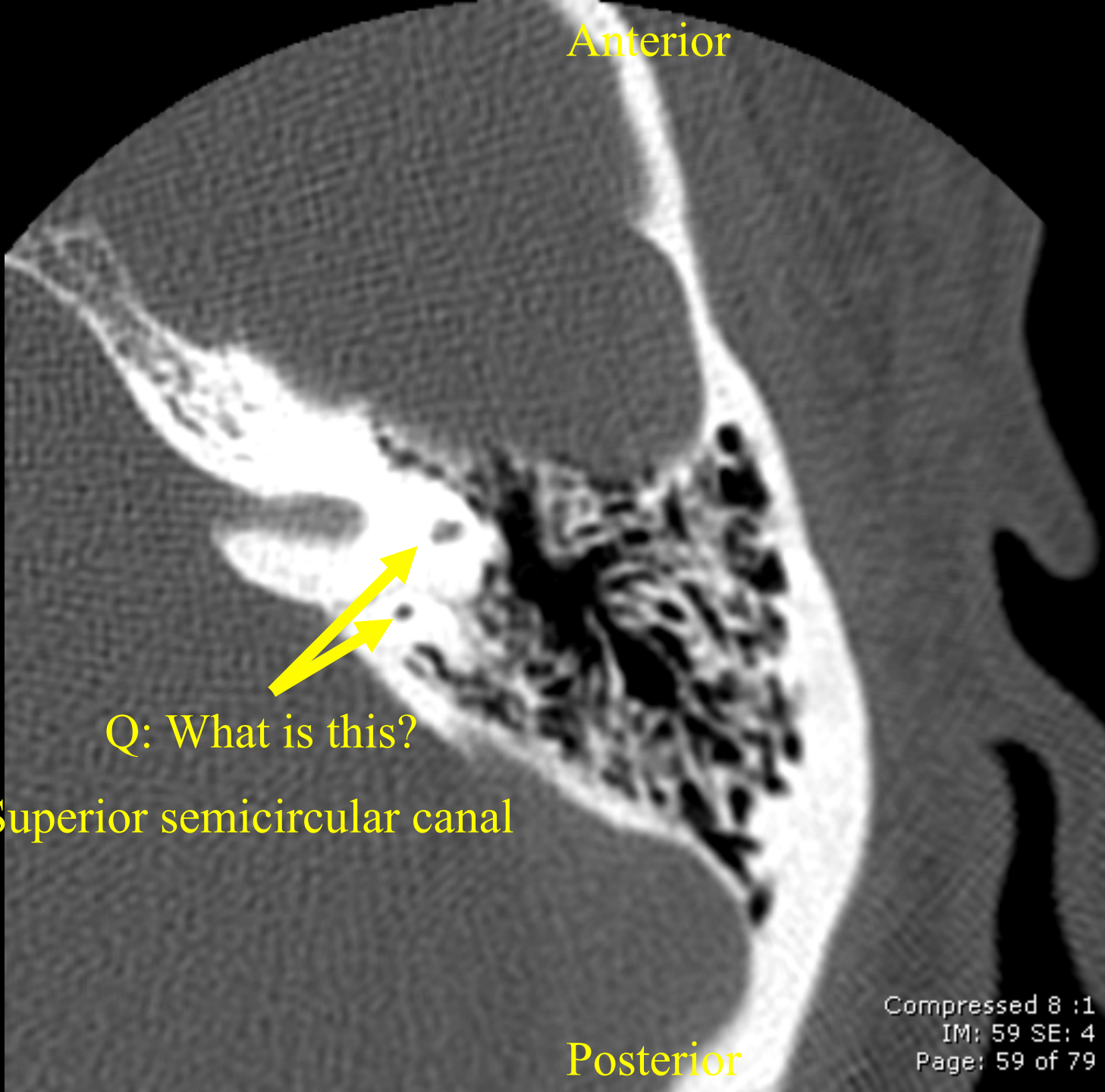
Lateral

Q: What is this?

A: Superior semicircular canal

Posterior

Compressed 8 :1
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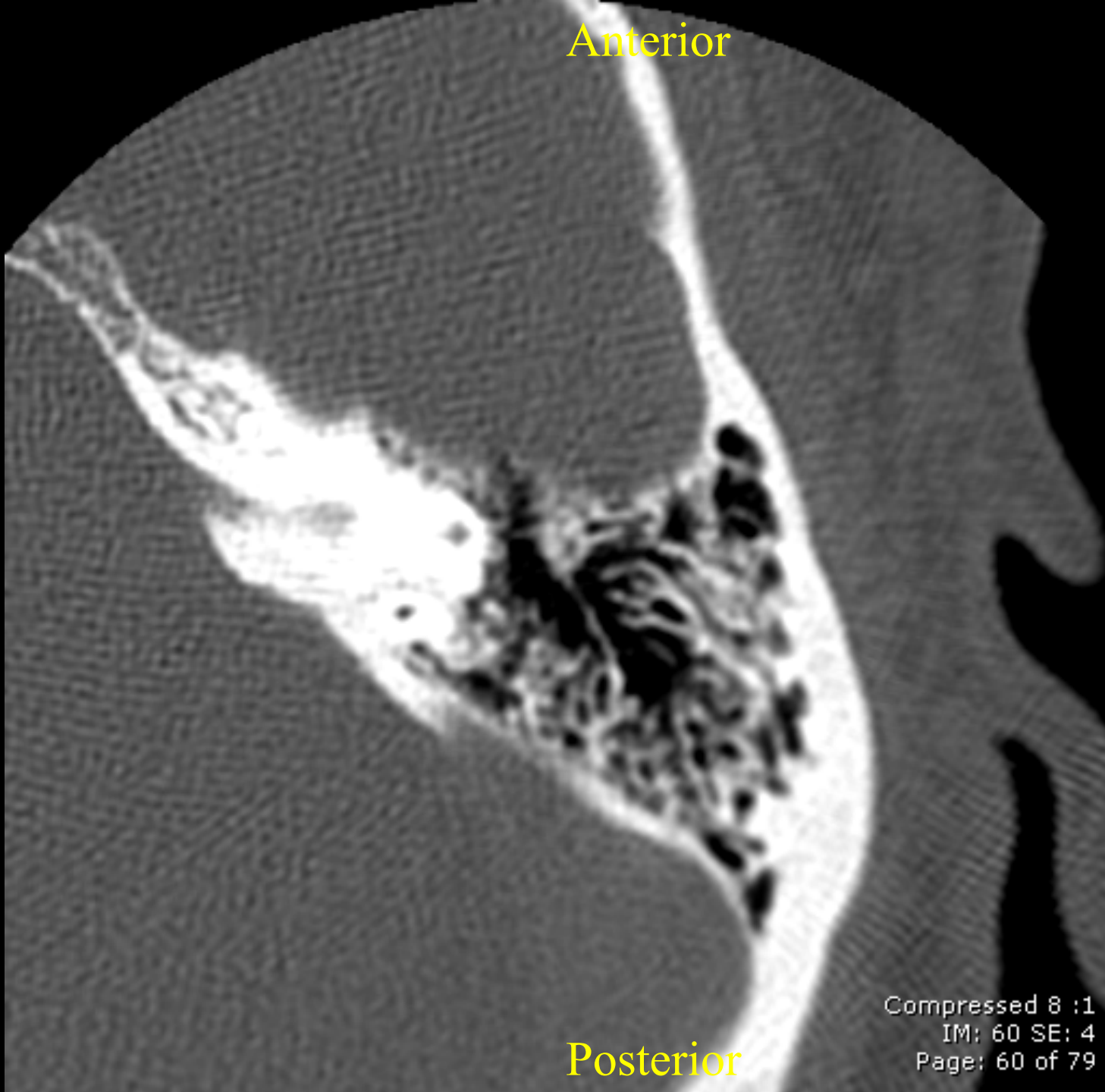
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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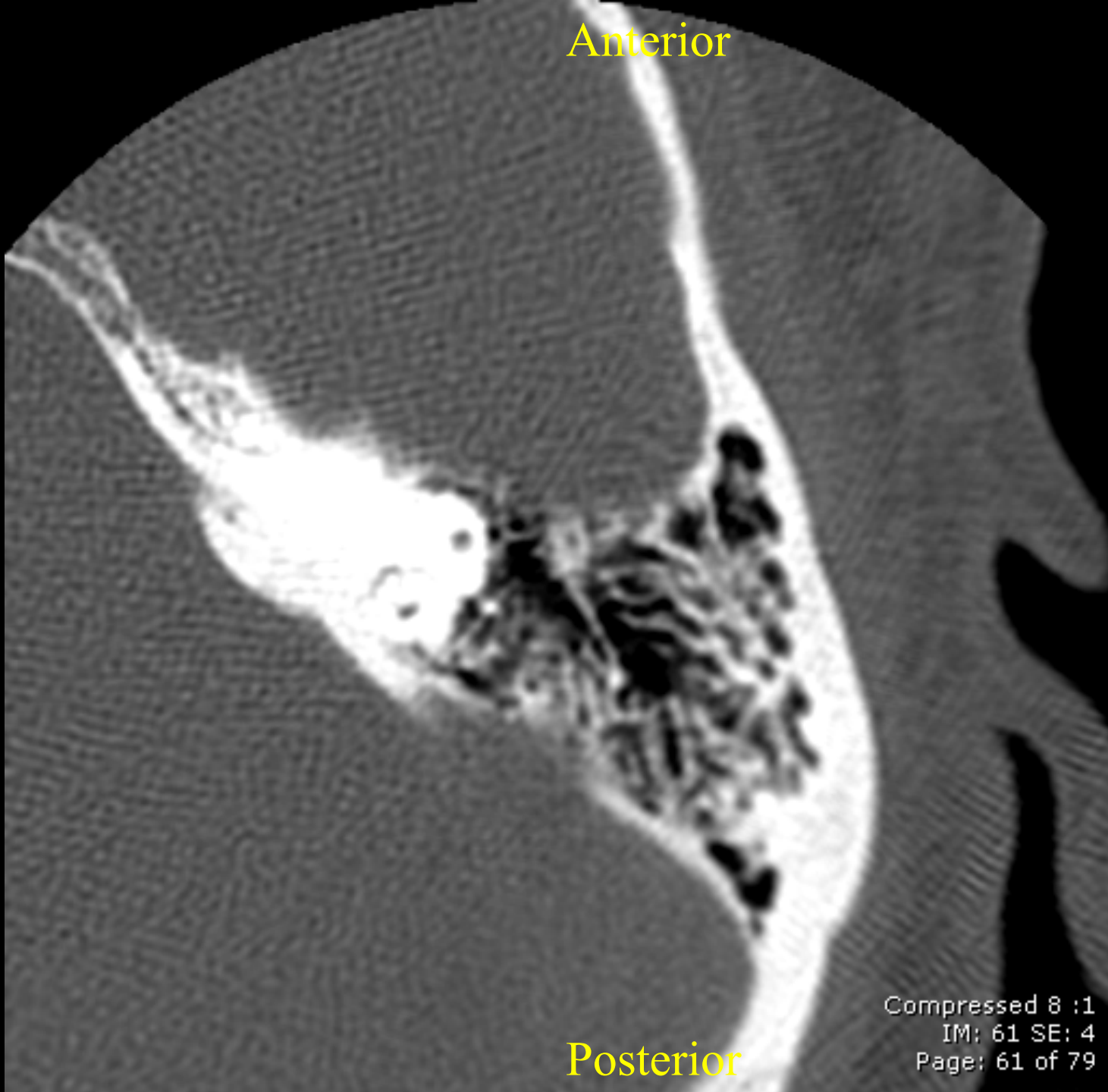
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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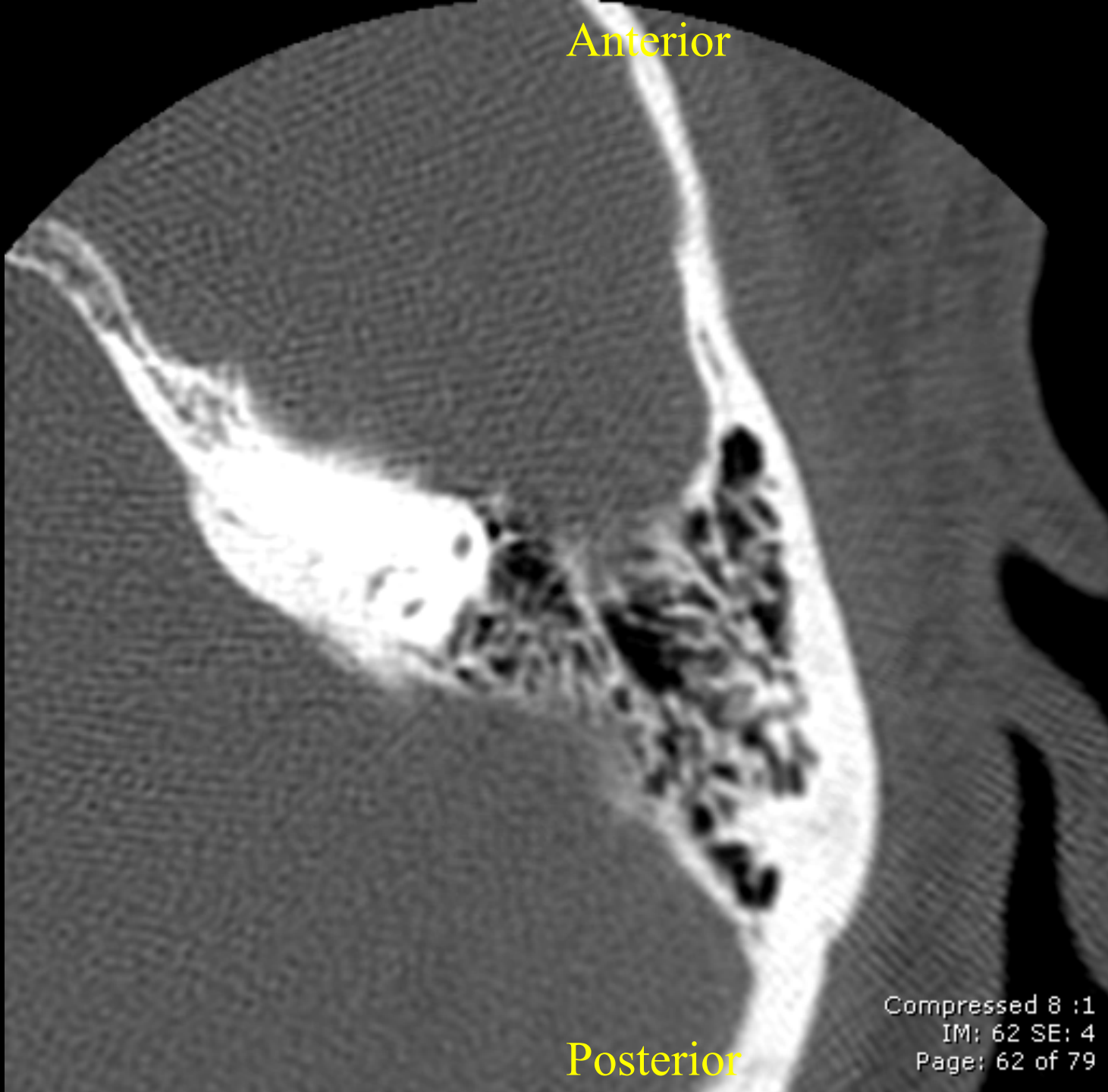
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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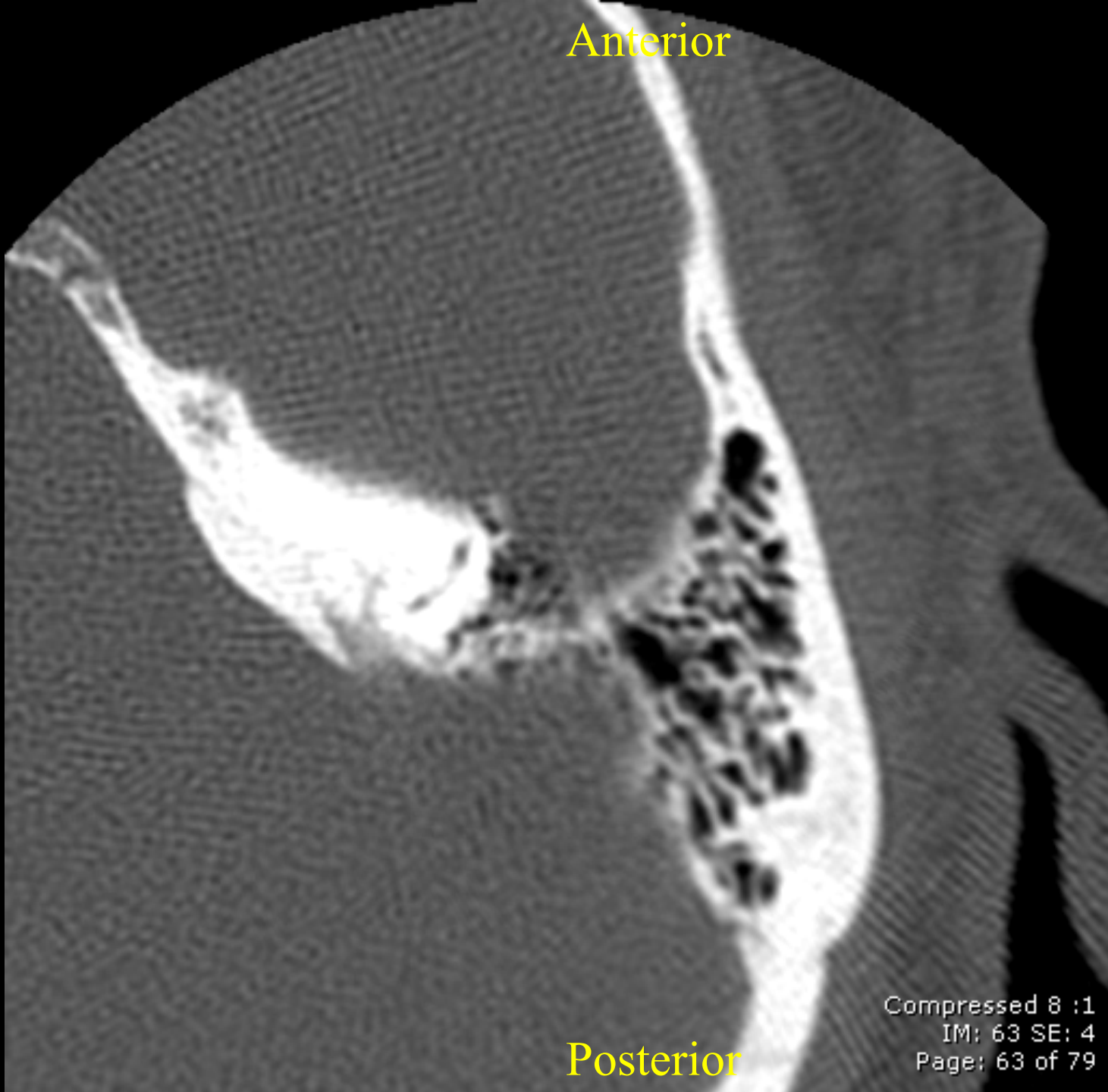
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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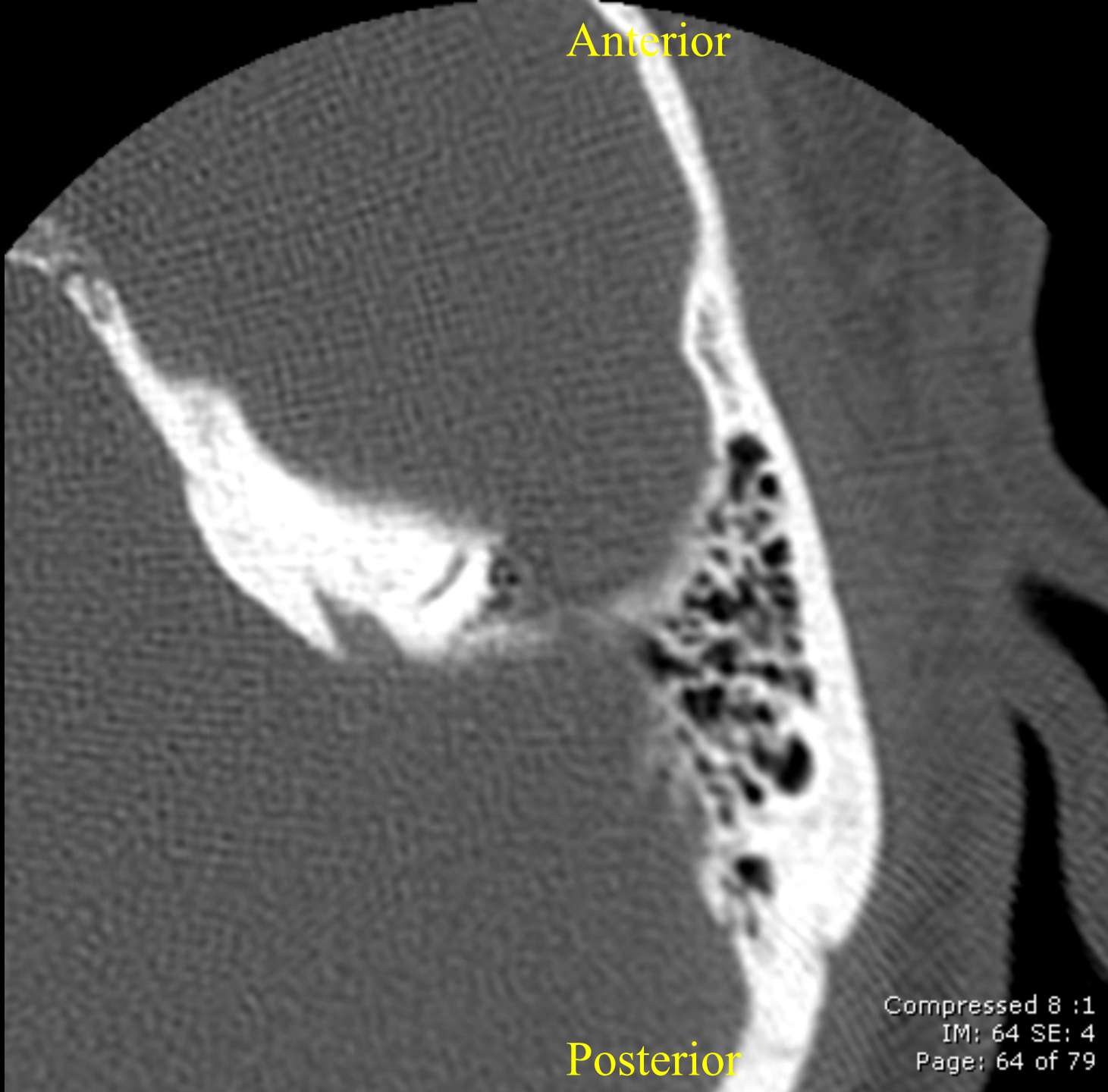
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 64 SE: 4
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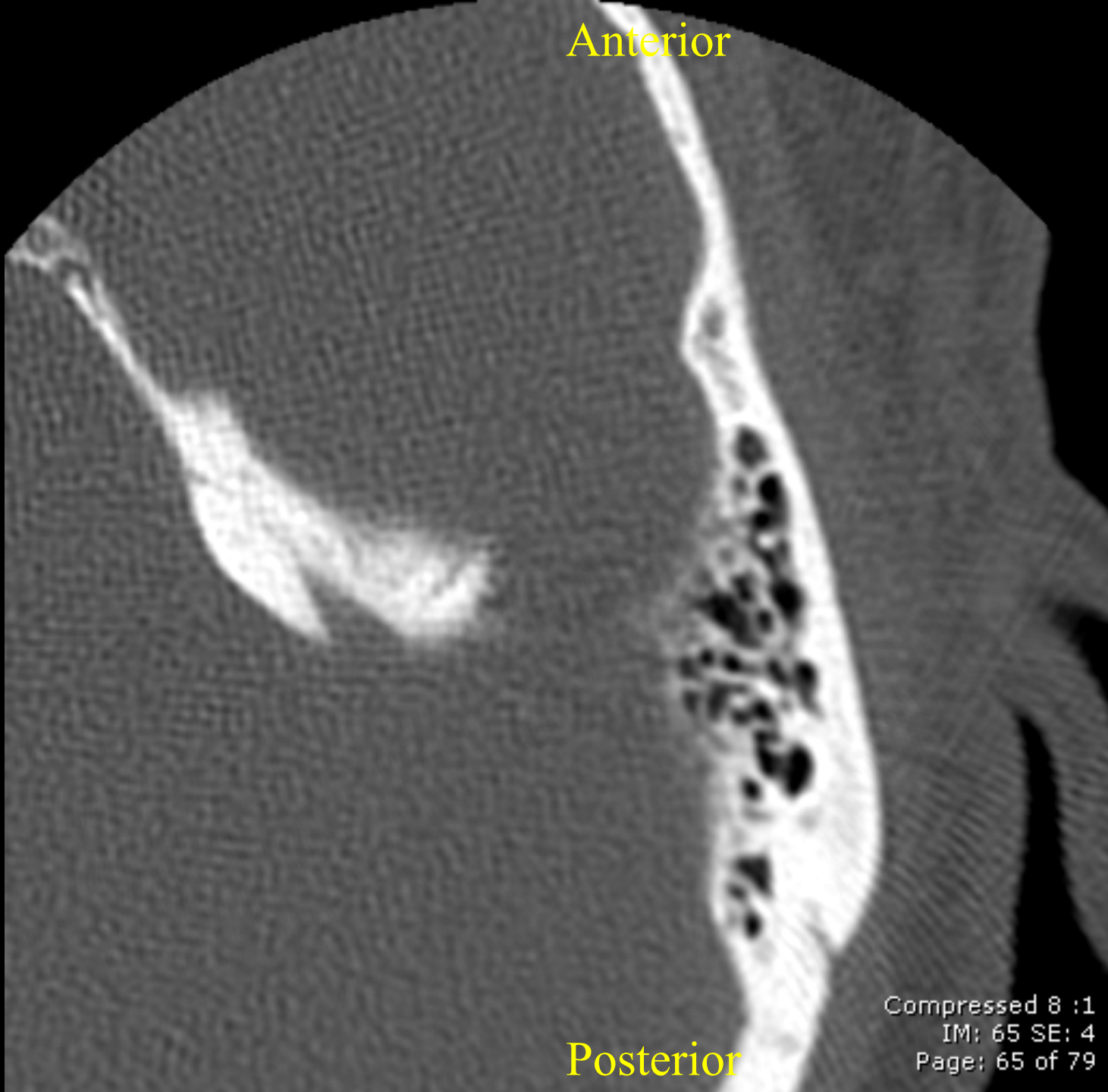
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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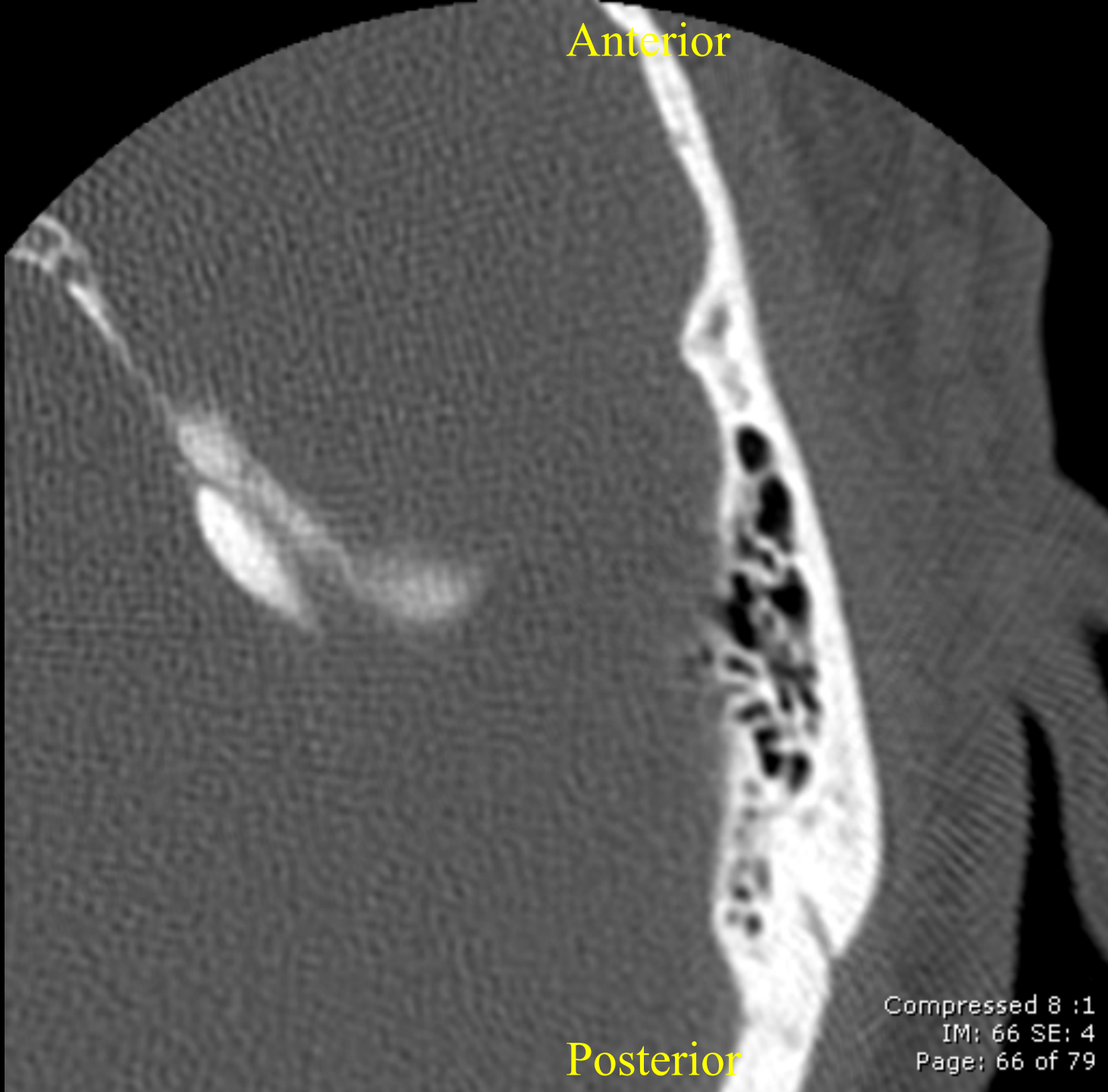
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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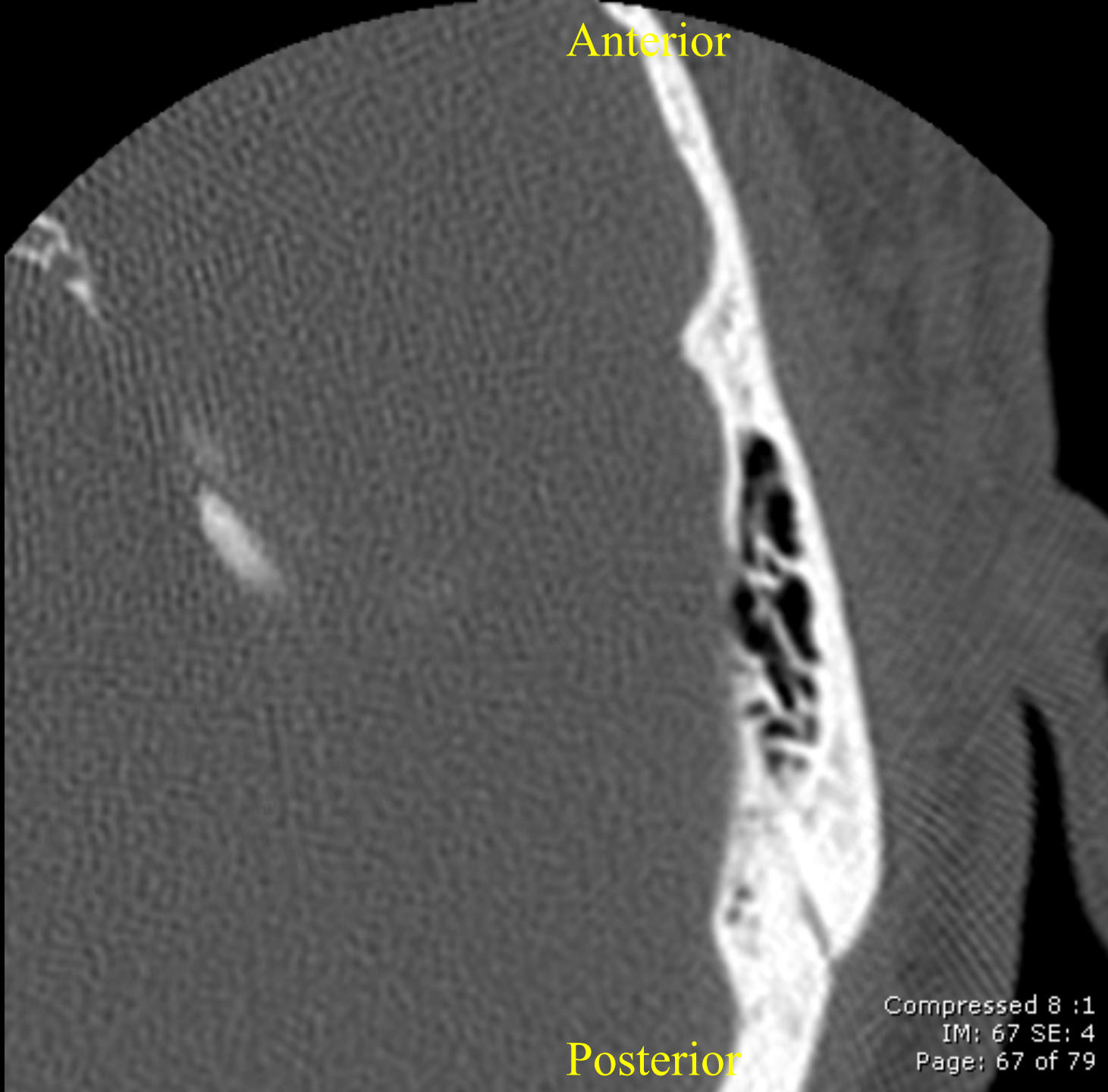
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
IM: 67 SE: 4
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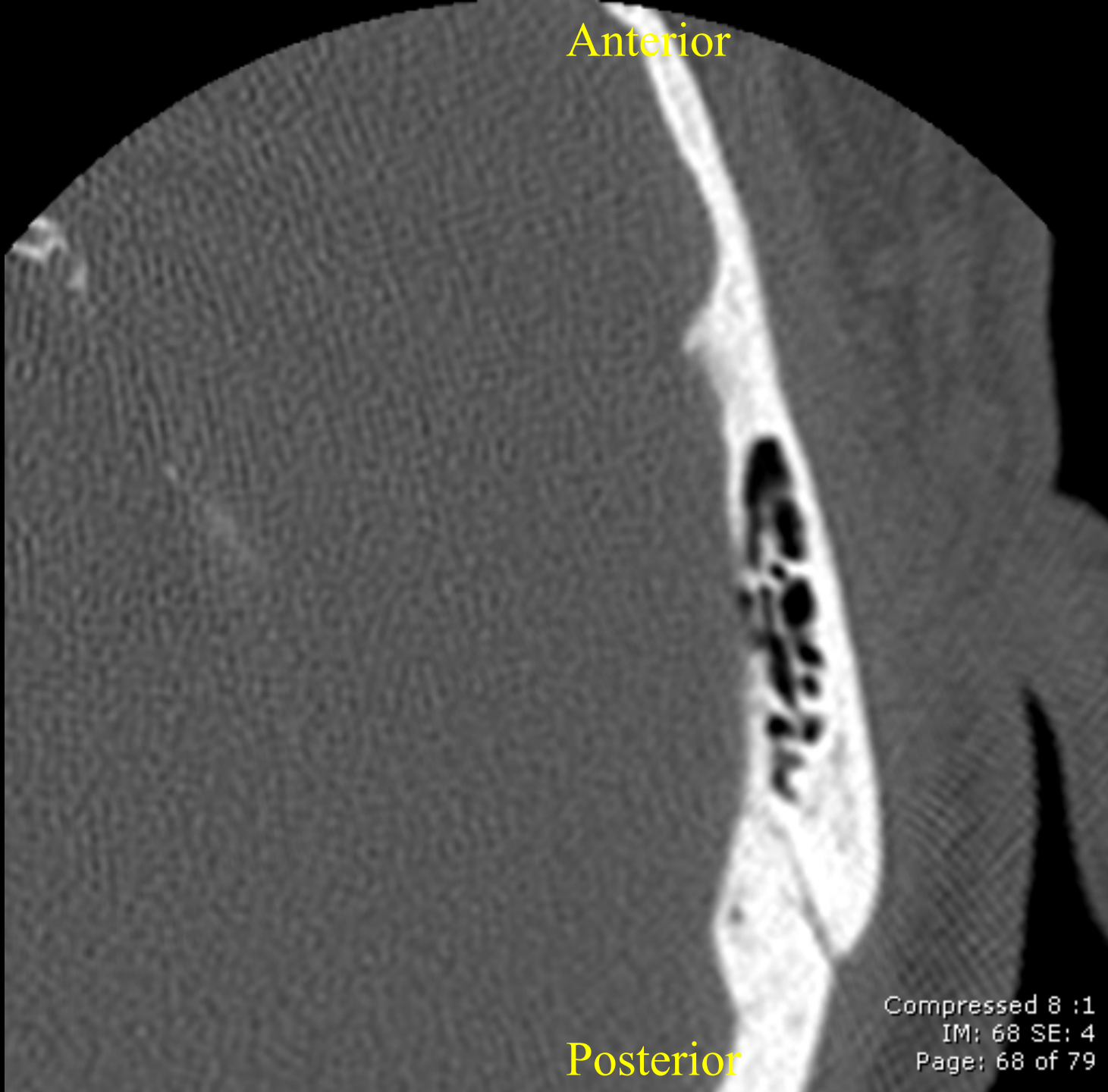
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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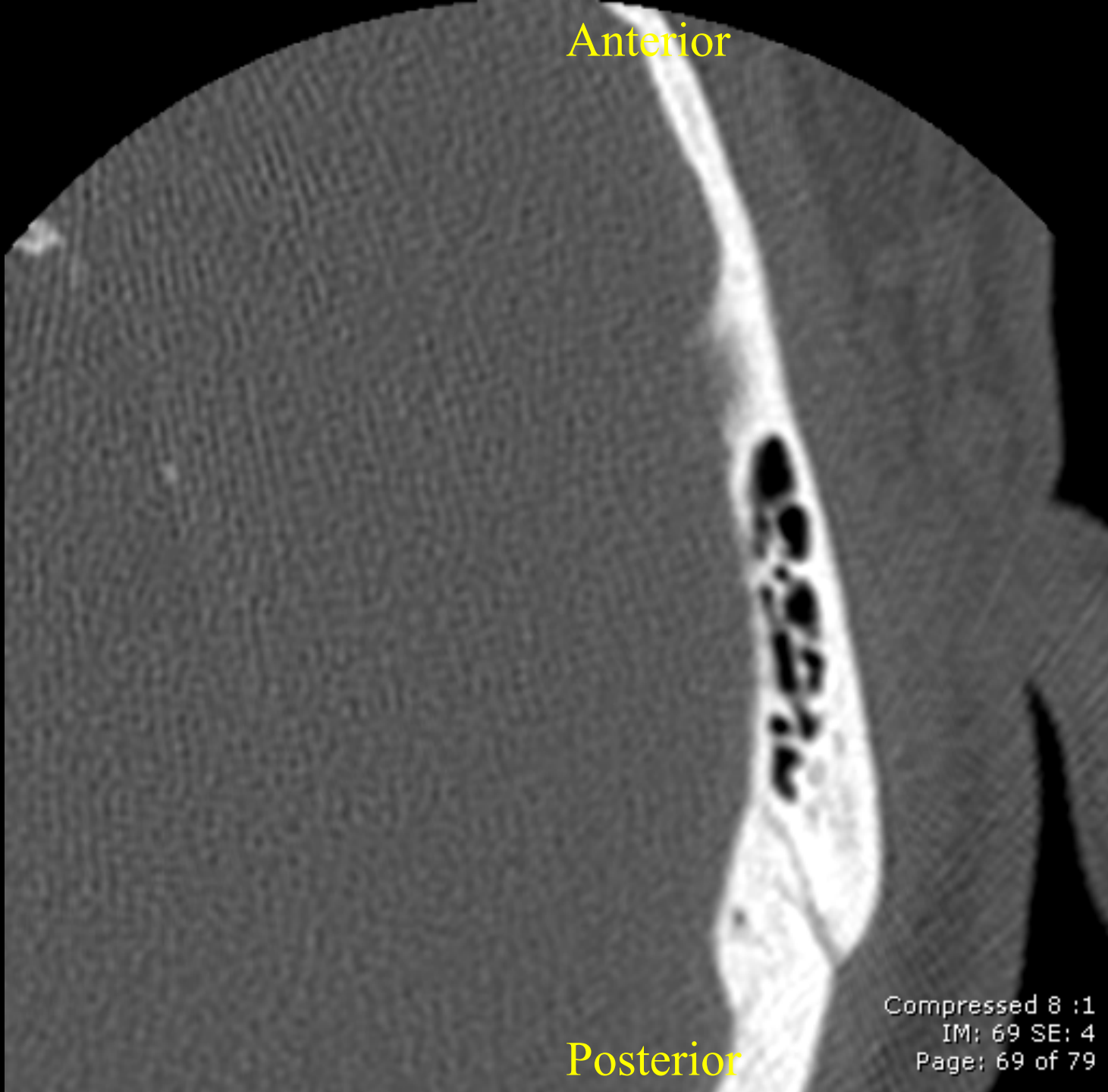
Anterior

Medial

Lateral

Posterior

Compressed 8 :1
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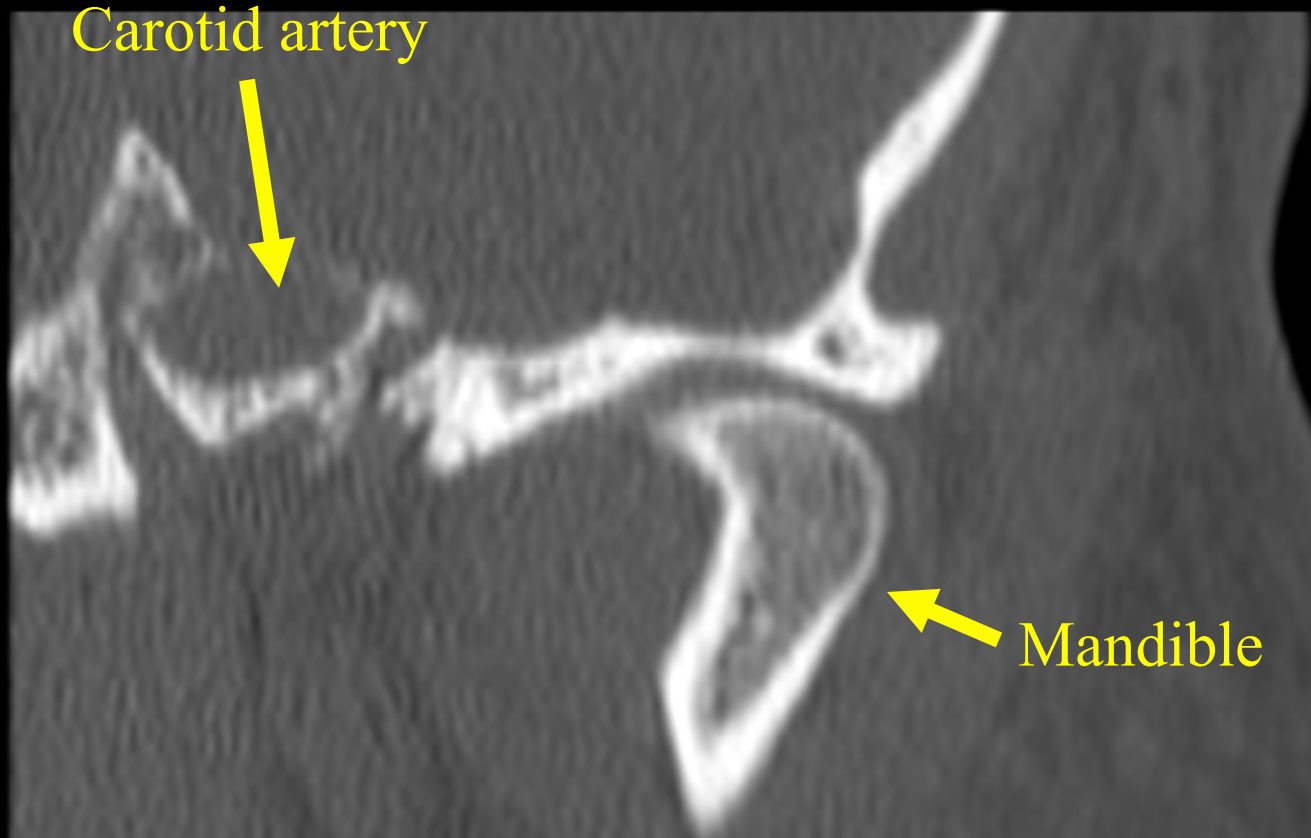
Left temporal bone

Superior

Coronal images

Medial

Lateral



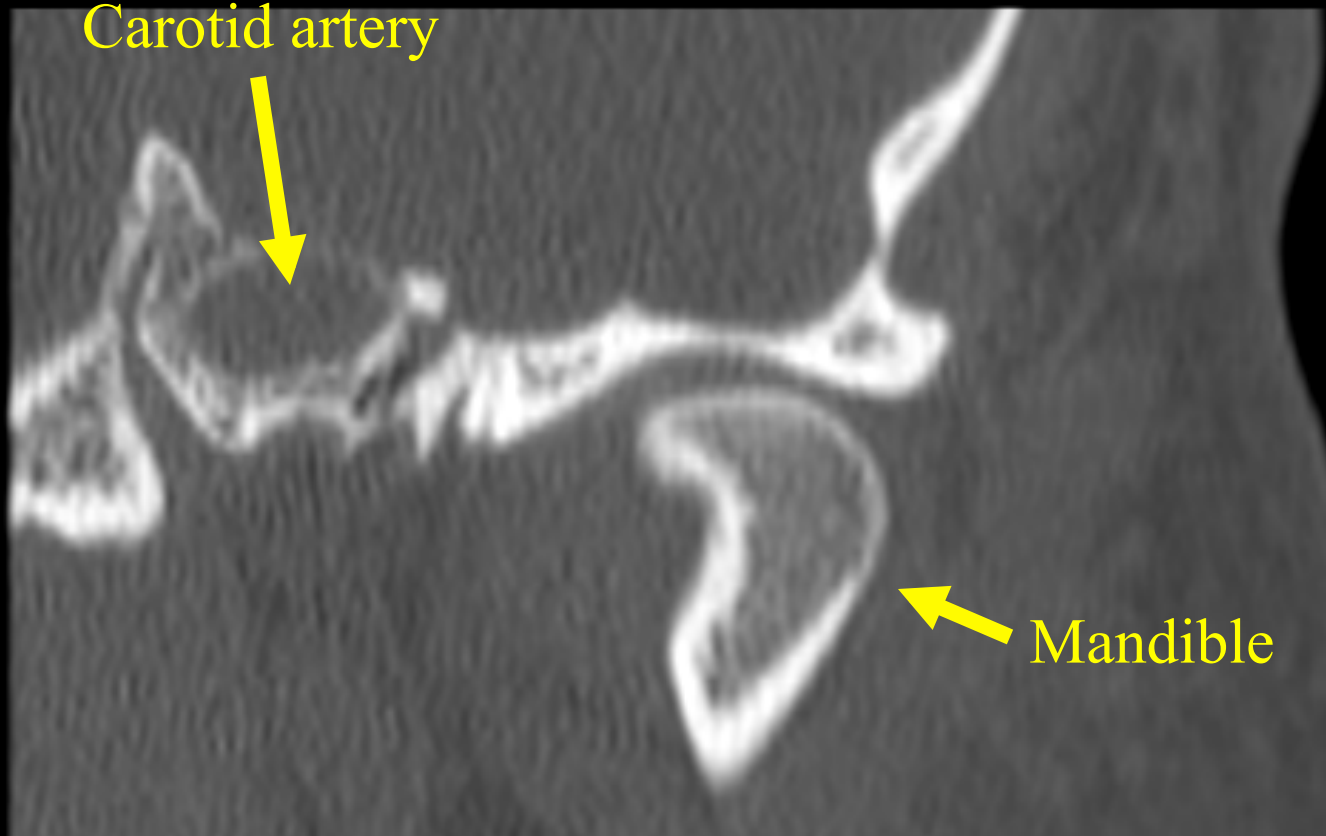
Inferior

Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

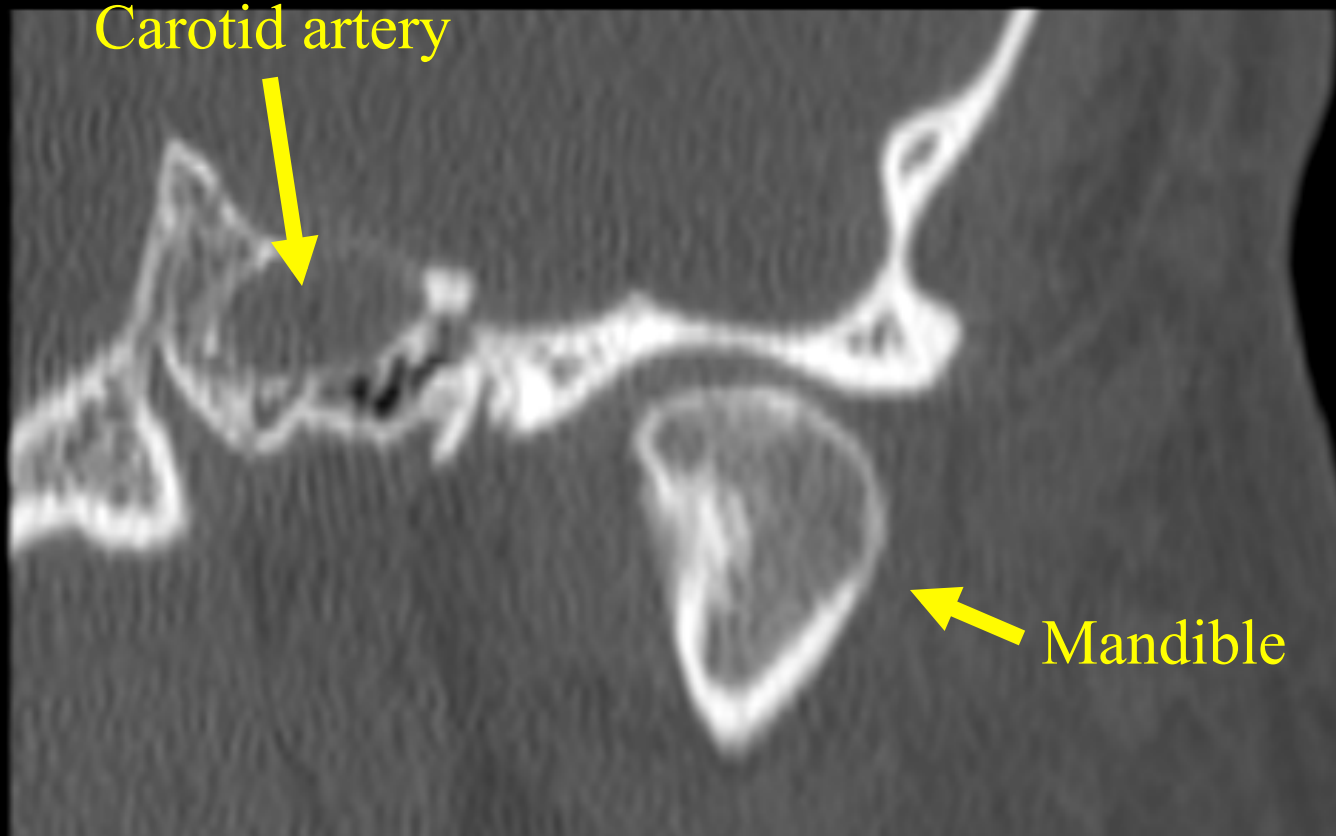
Left temporal bone

Superior

Coronal images

Medial

Lateral



Inferior

Compressed 8 :1
IM: 55 SE: 400
Page: 55 of 57

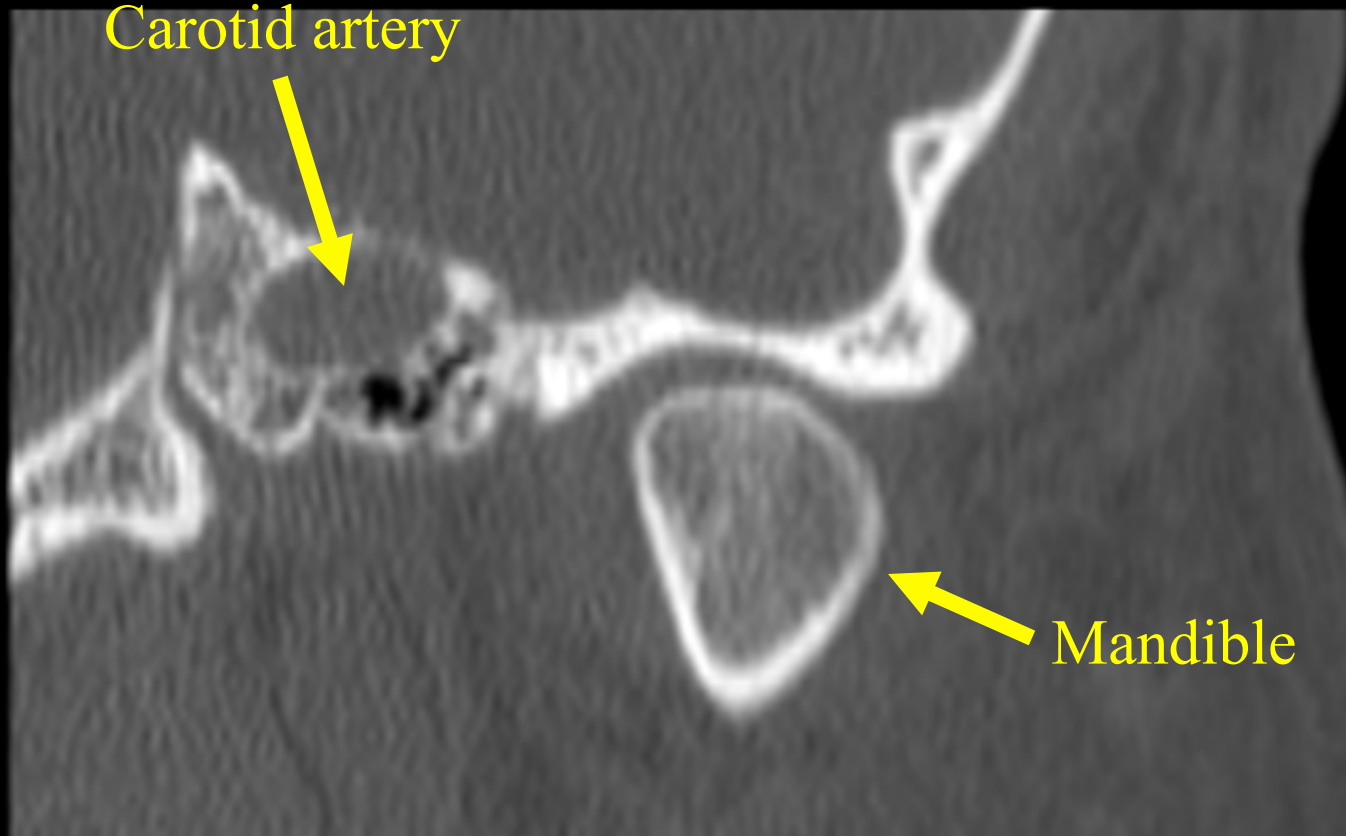
Left temporal bone

Superior

Coronal images

Medial

Lateral



Inferior

Compressed 8 :1
IM: 54 SE: 400
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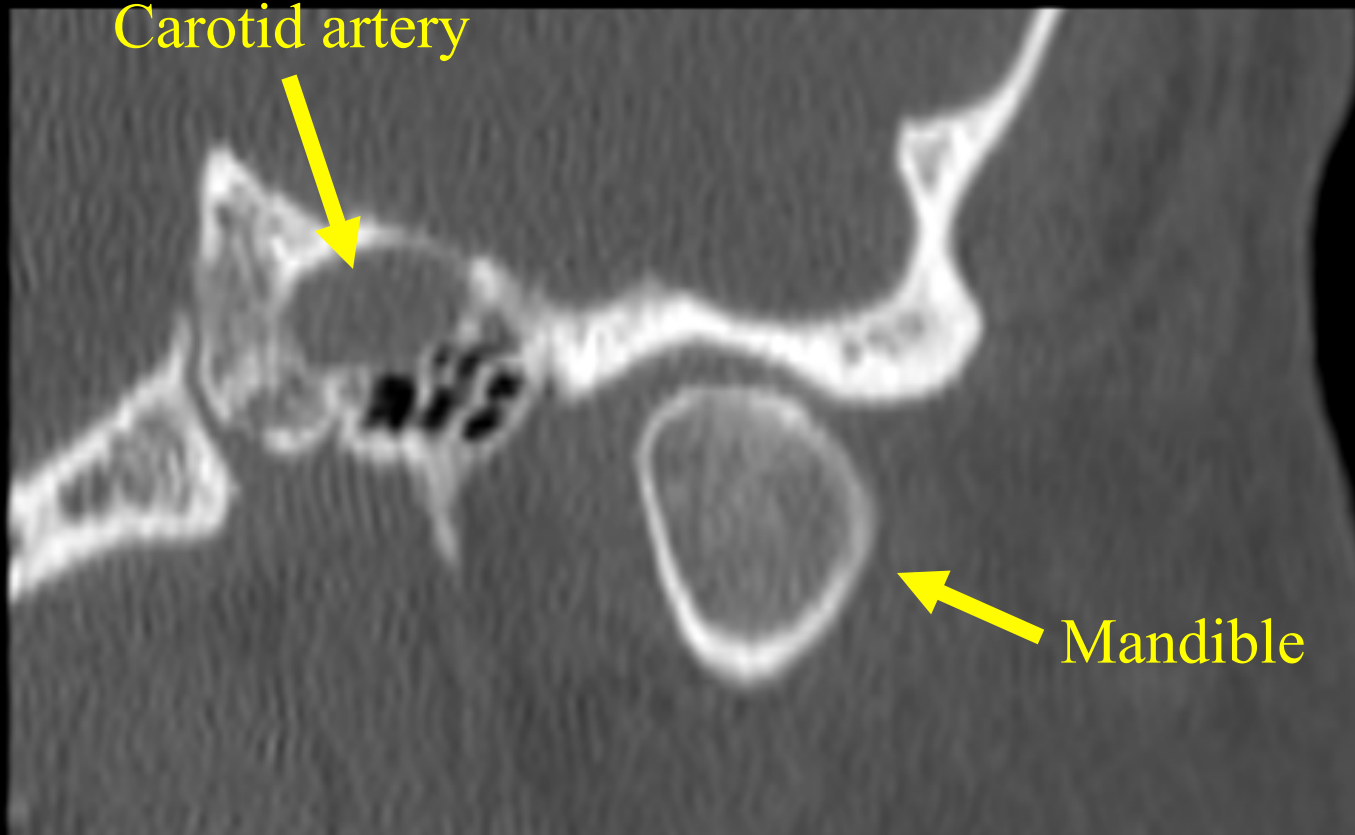
Left temporal bone

Superior

Coronal images

Medial

Lateral



Inferior

Compressed 8 :1
IM: 53 SE: 400
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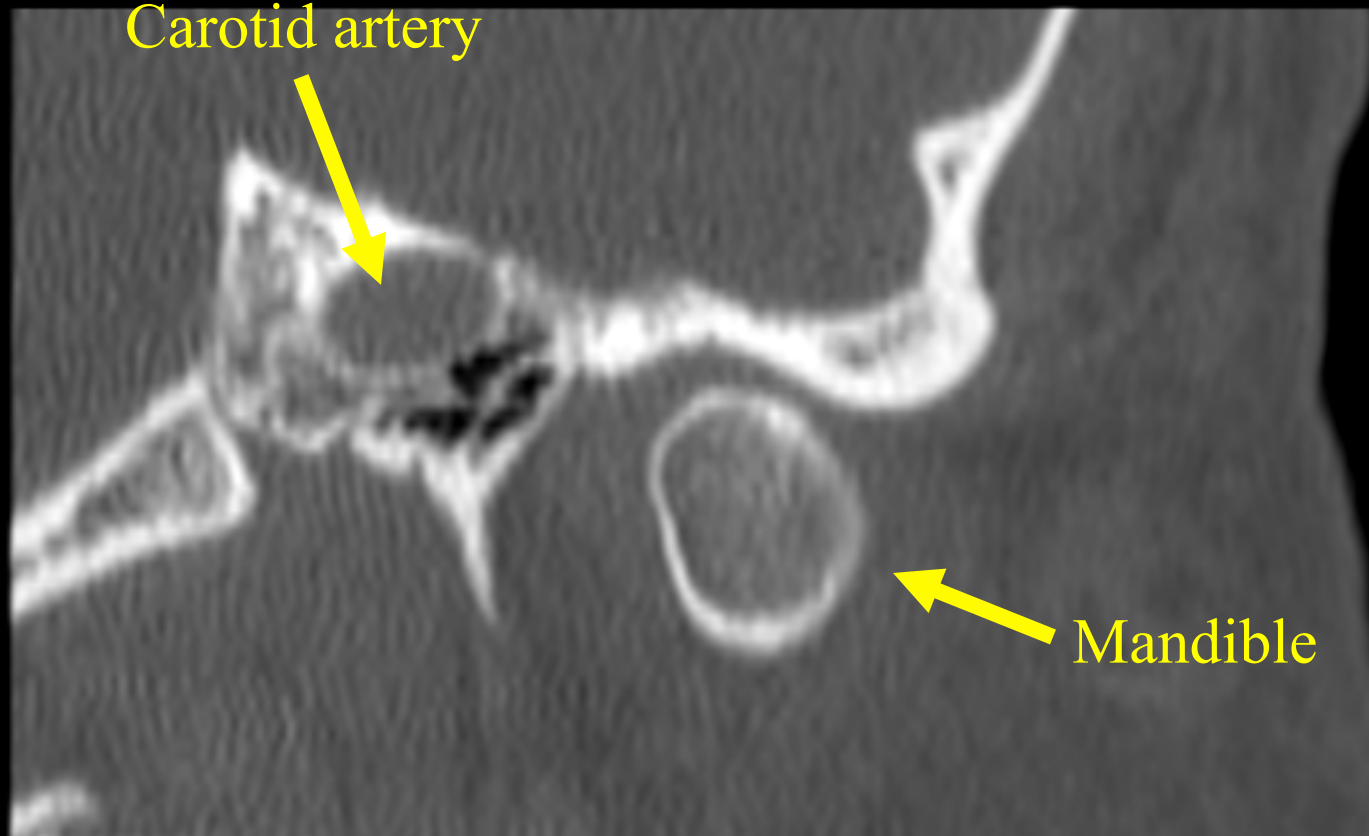
Left temporal bone

Superior

Coronal images

Medial

Lateral



Inferior

Compressed 8 :1
IM: 52 SE: 400
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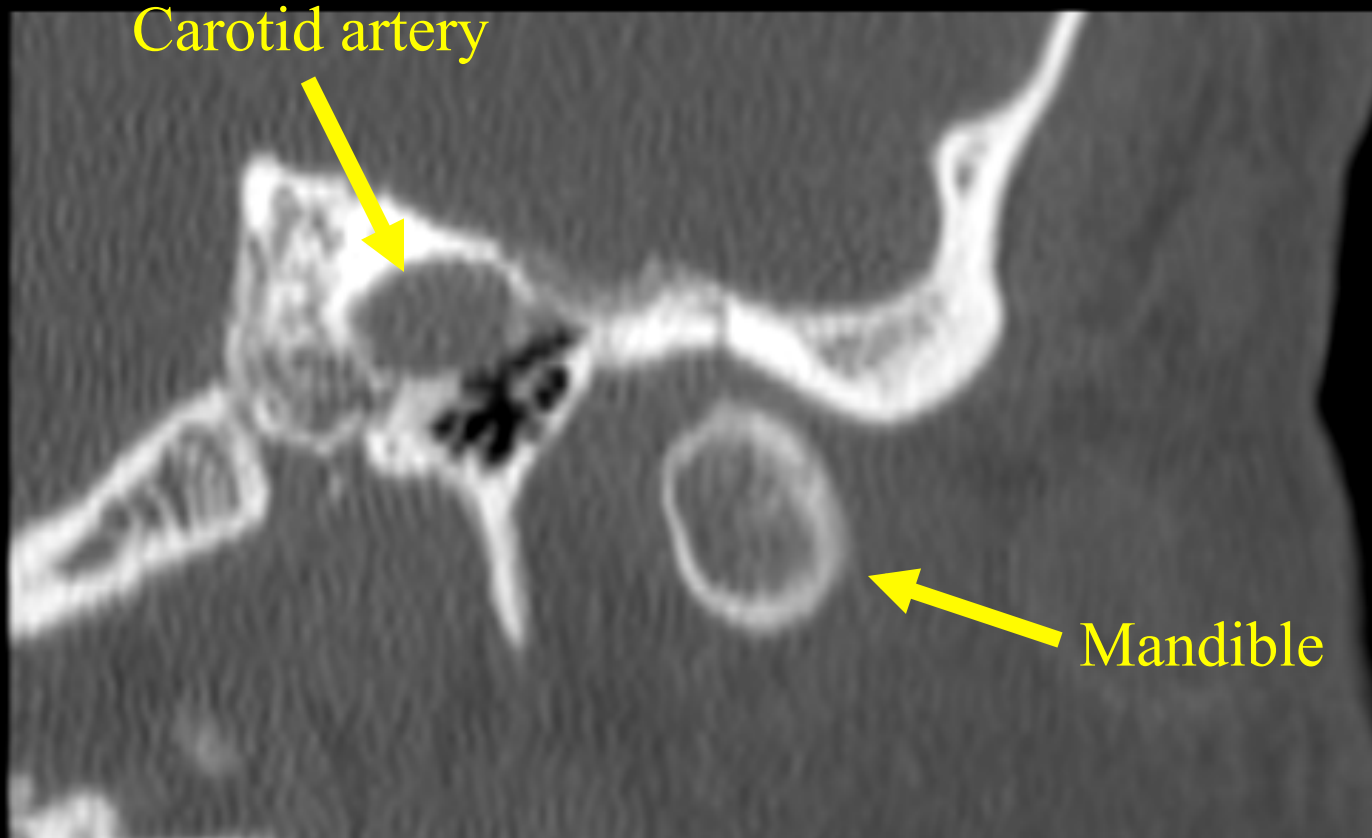
Left temporal bone

Superior

Coronal images

Medial

Lateral



Inferior

Compressed 8 :1
IM: 51 SE: 400
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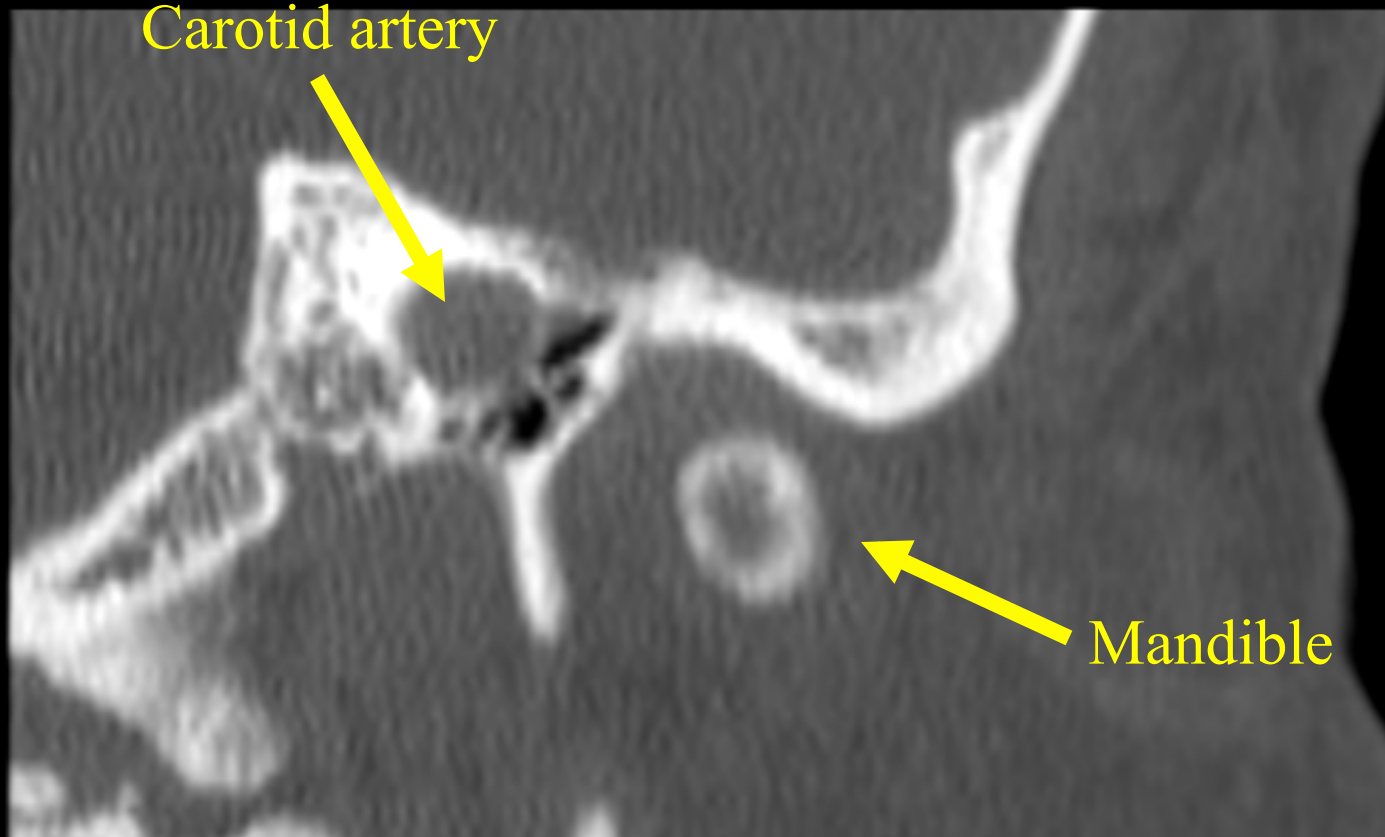
Left temporal bone

Superior

Coronal images

Medial

Lateral



Inferior

Compressed 8 :1
IM: 50 SE: 400
Page: 50 of 57

Left temporal bone

Superior

Coronal images

Carotid artery

Medial

Lateral



Inferior

Compressed 8 :1
IM: 49 SE: 400
Page: 49 of 57

Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

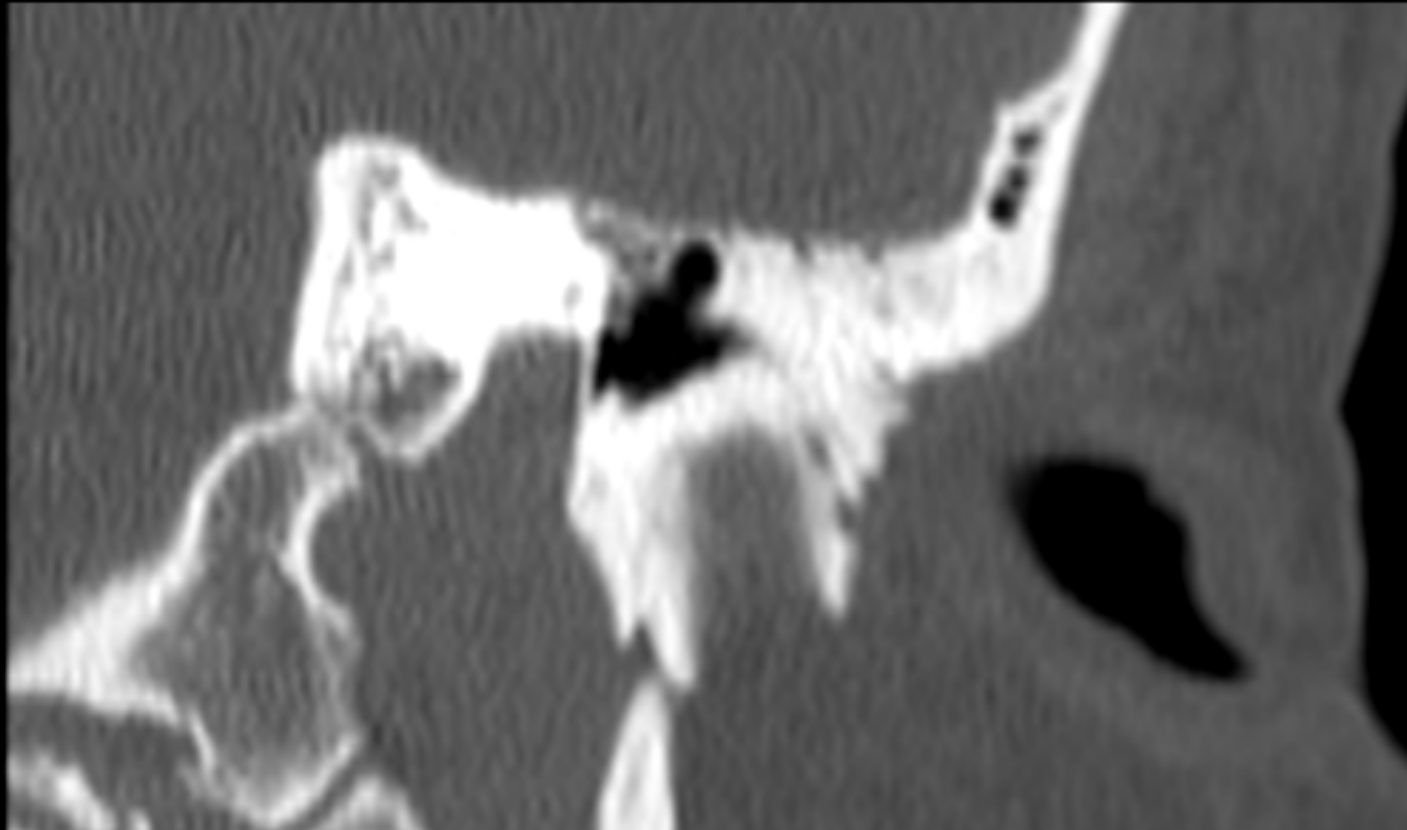
Compressed 8 :1
IM: 48 SE: 400
Page: 48 of 57

Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

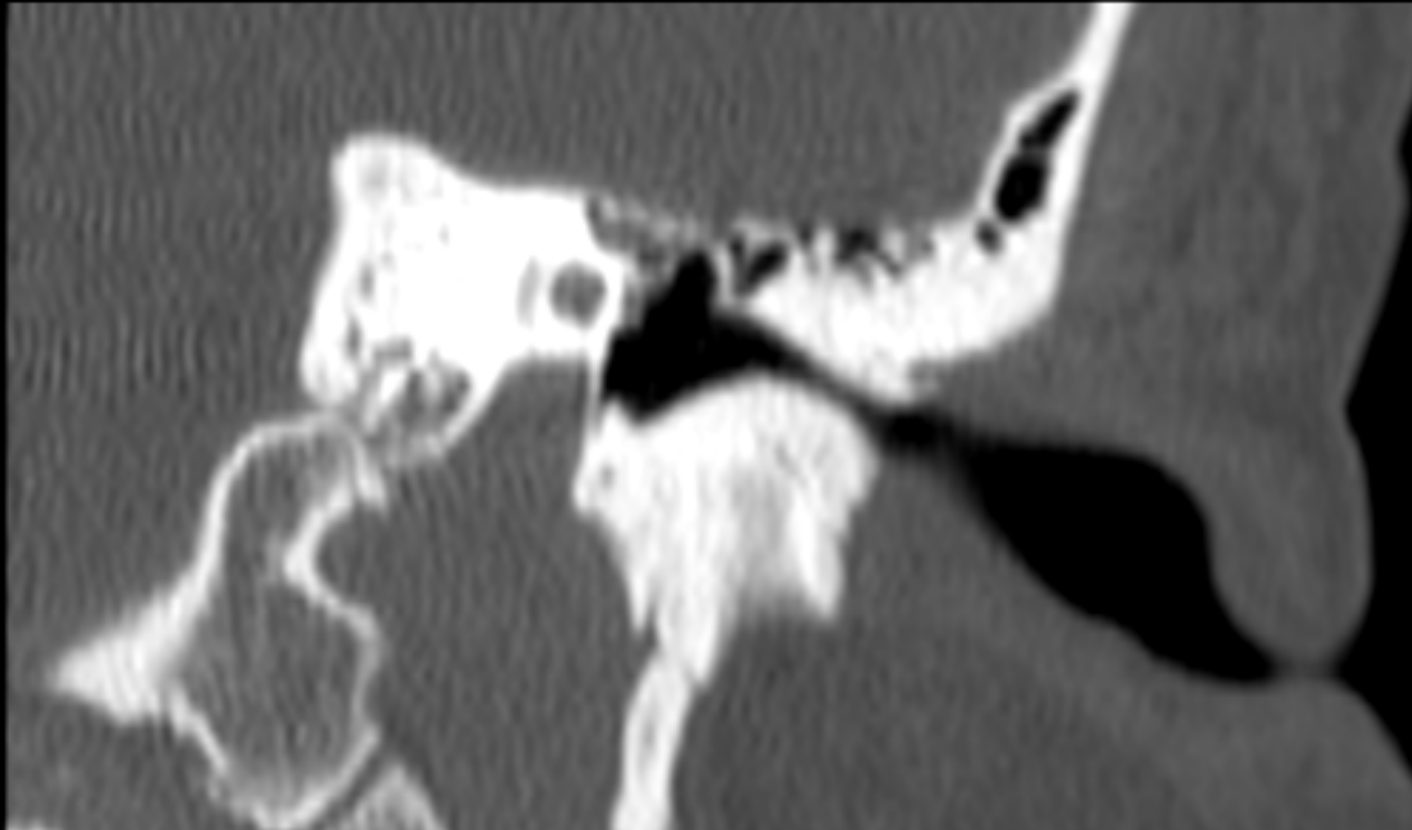
Compressed 8 :1
IM: 47 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

Compressed 8 :1
IM: 46 SE: 400
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Left temporal bone

Superior

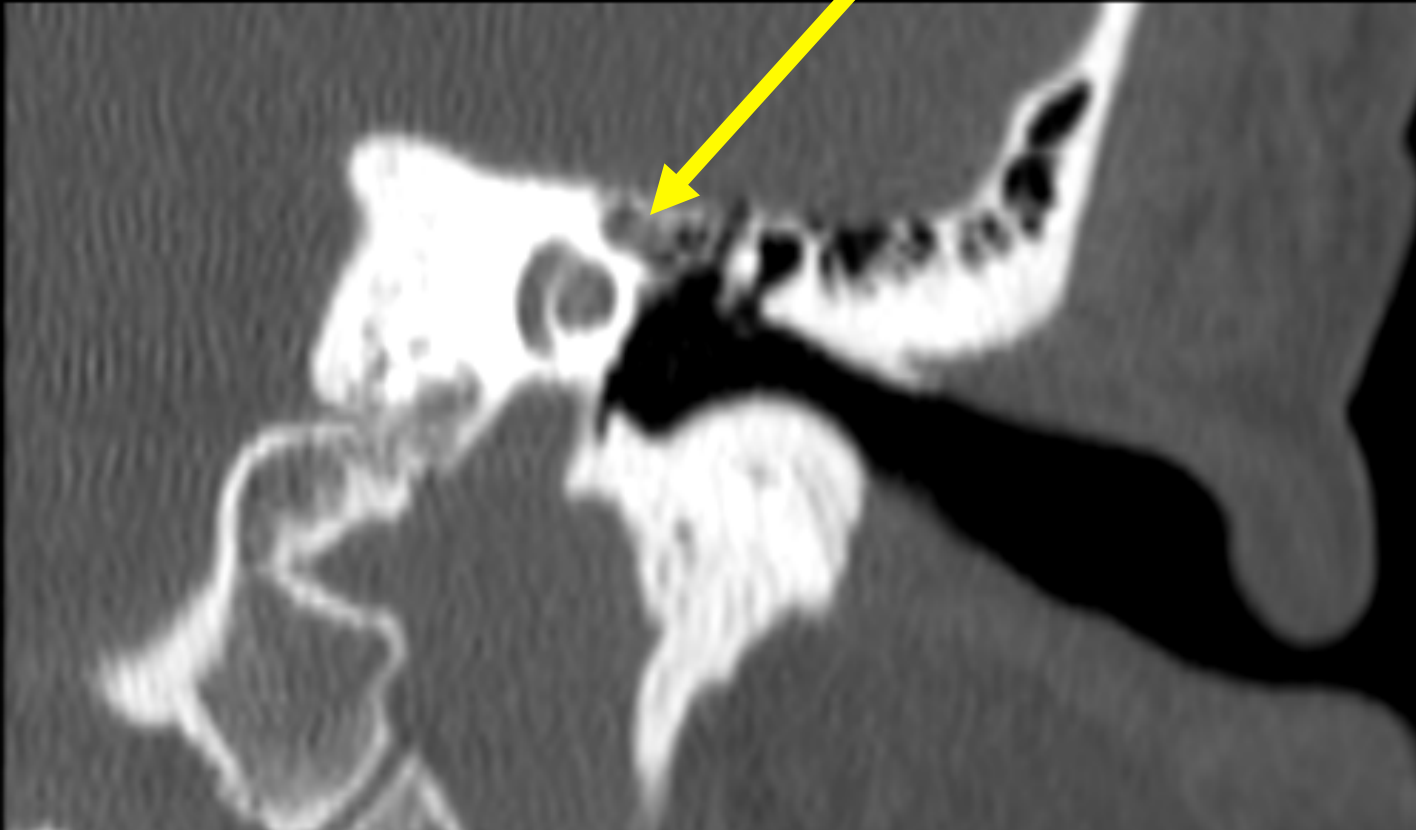
Coronal images

Q: What is this?

A: Geniculate ganglion

Medial

Lateral



Inferior

Compressed 8 :1
IM: 45 SE: 400
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Left temporal bone

Superior

Q: What is this?

A: Malleus

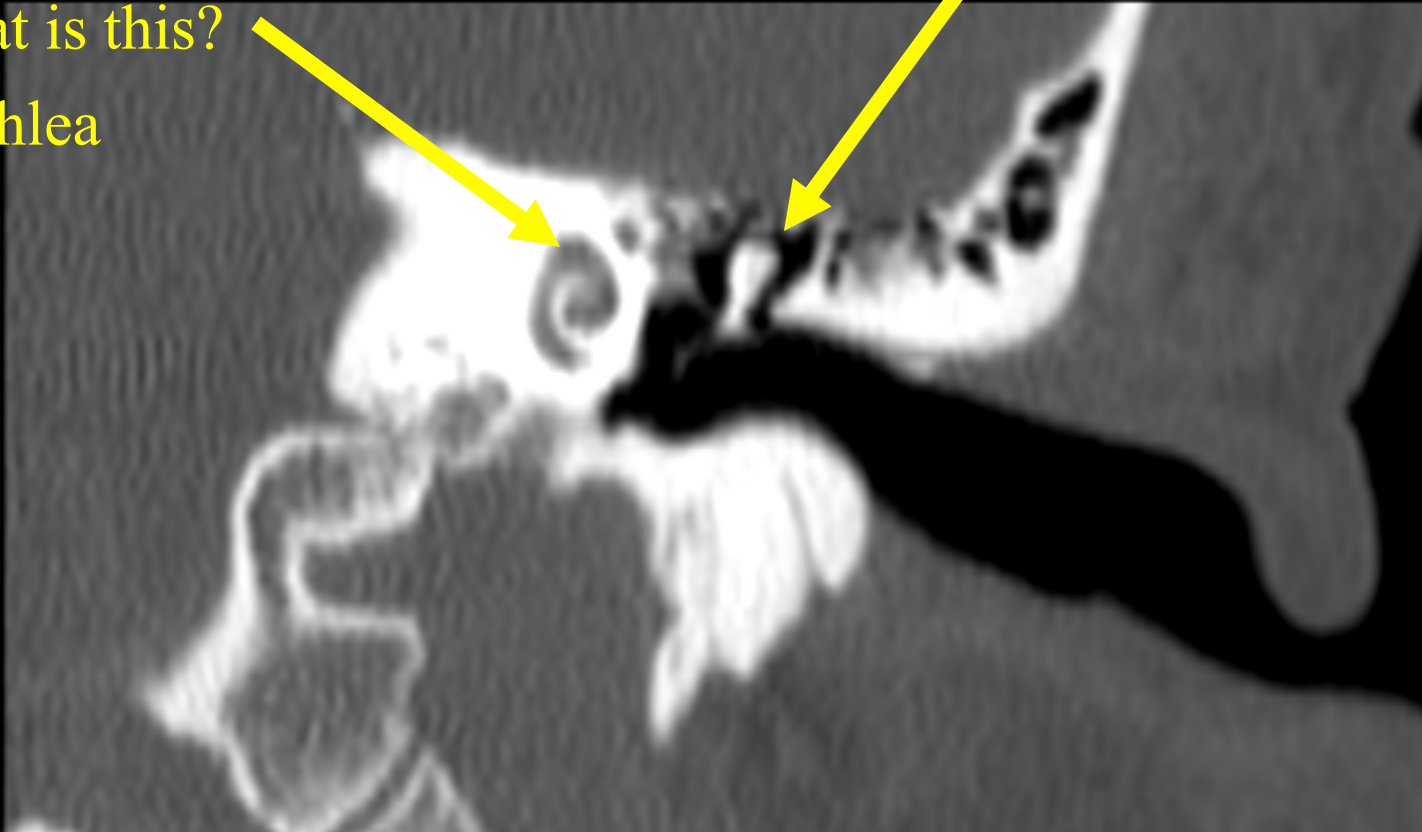
Coronal images

Q: What is this?

A: Cochlea

Medial

Lateral



Inferior

Compressed 8 :1
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Left temporal bone

Coronal images

Superior

Q: What nerve is this?

A: Facial nerve

Medial



Lateral

Q: What is this?

A: Tympanic membrane

Inferior

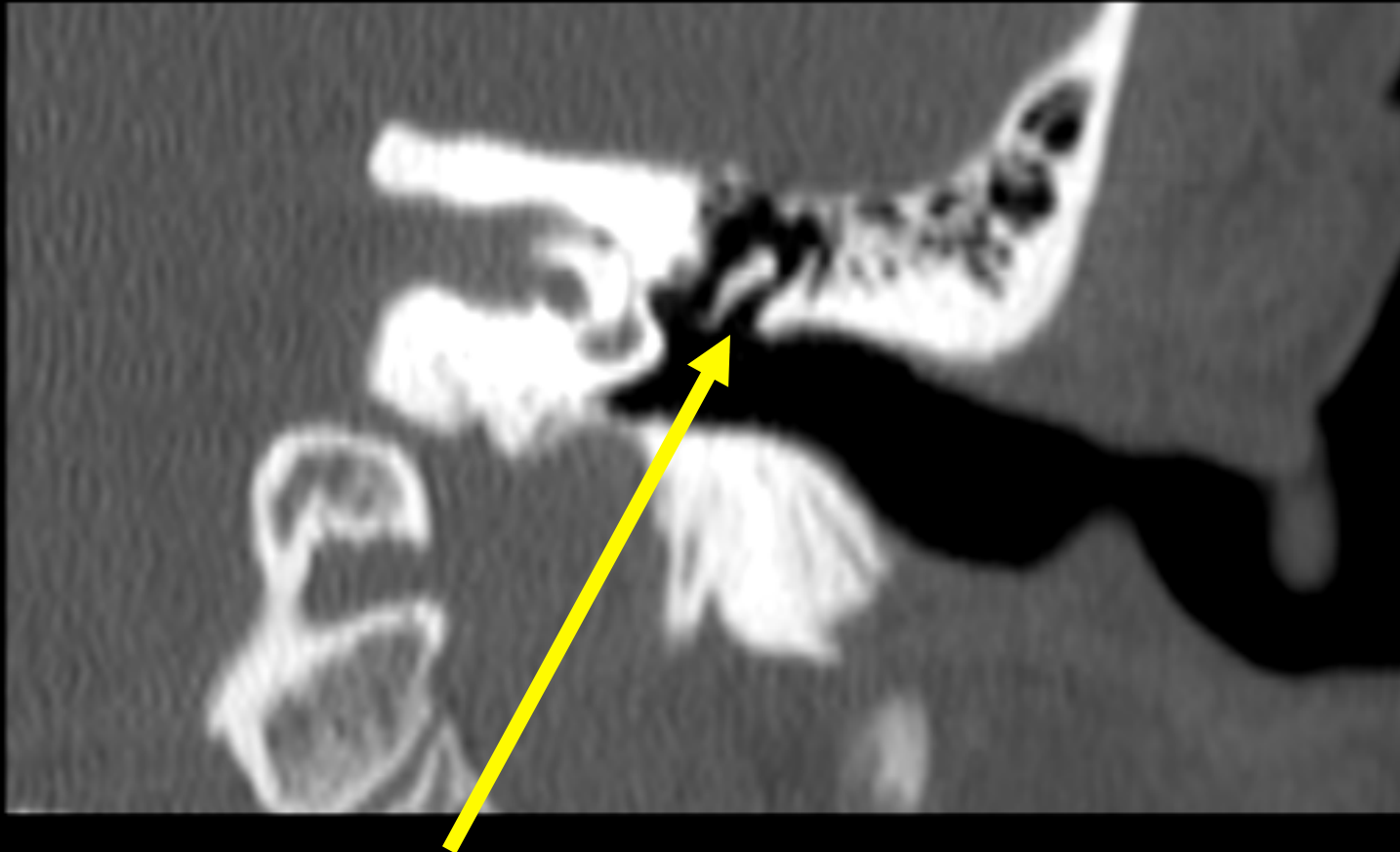
Left temporal bone

Superior

Coronal images

Medial

Lateral



Q: What is this? A: Incus

Inferior

Compressed 9 :1
IM: 42 SE: 400
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Left temporal bone

Superior

Coronal images

Q: What is this?

A: Internal
auditory canal

Medial

Lateral



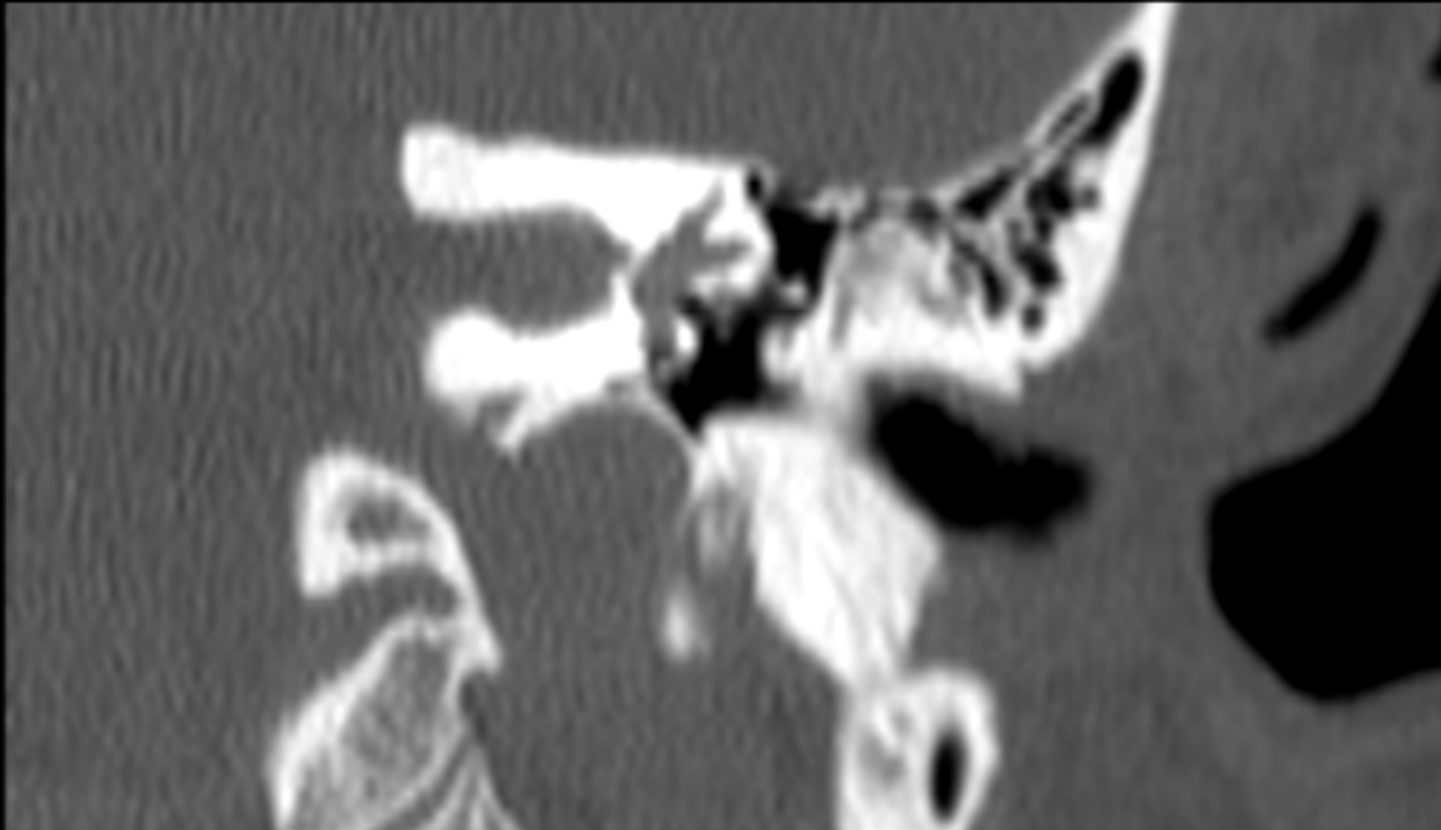
Inferior

Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

Compressed 8 :1
IM: 40 SE: 400
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Left temporal bone

Superior

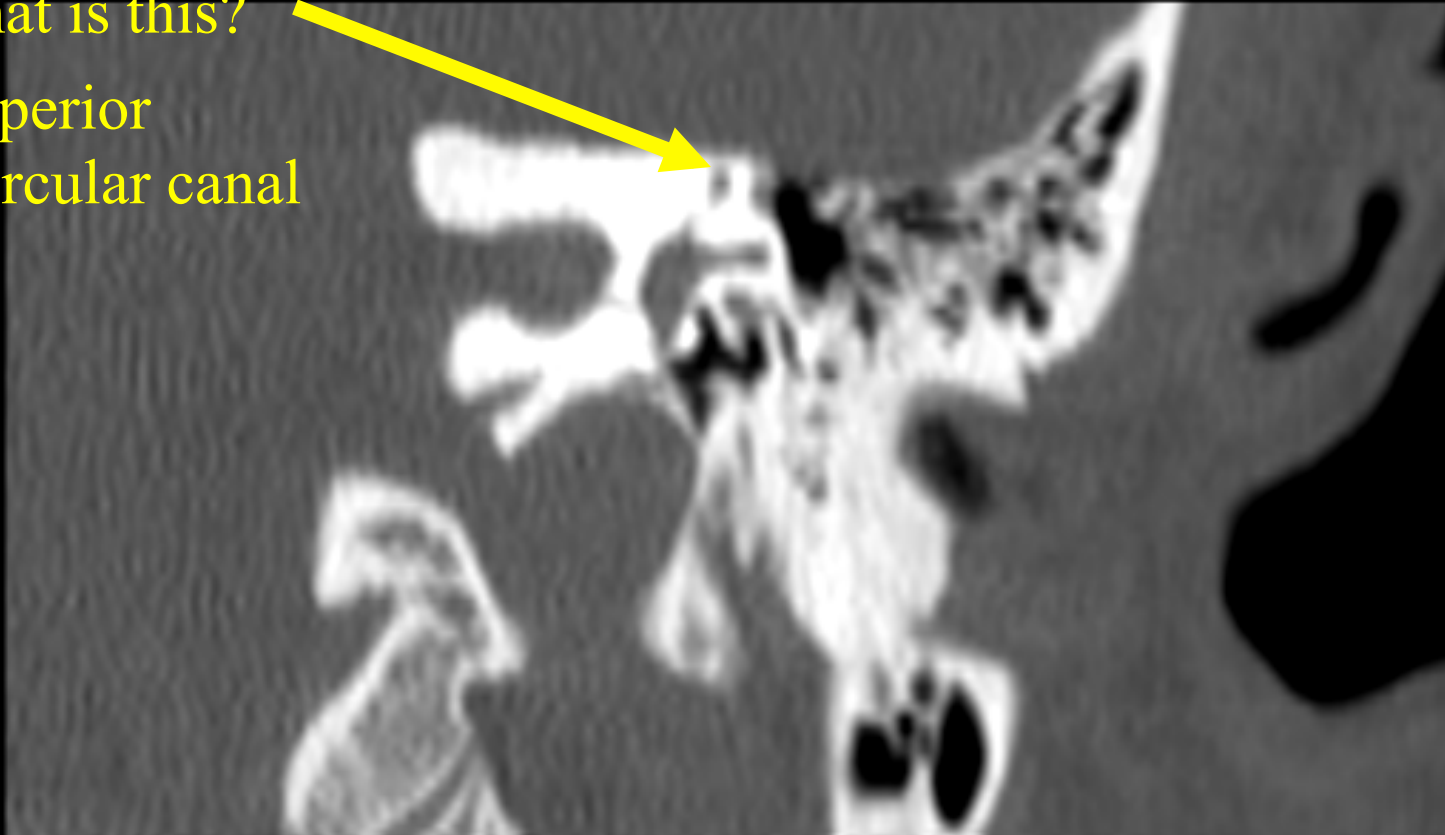
Coronal images

Q: What is this?

A: Superior
semicircular canal

Medial

Lateral



Inferior

Compressed 9 :1
IM: 39 SE: 400
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Left temporal bone

Superior

Coronal images

Q: What is this?

A: Lateral semicircular canal

Medial



Lateral

Inferior

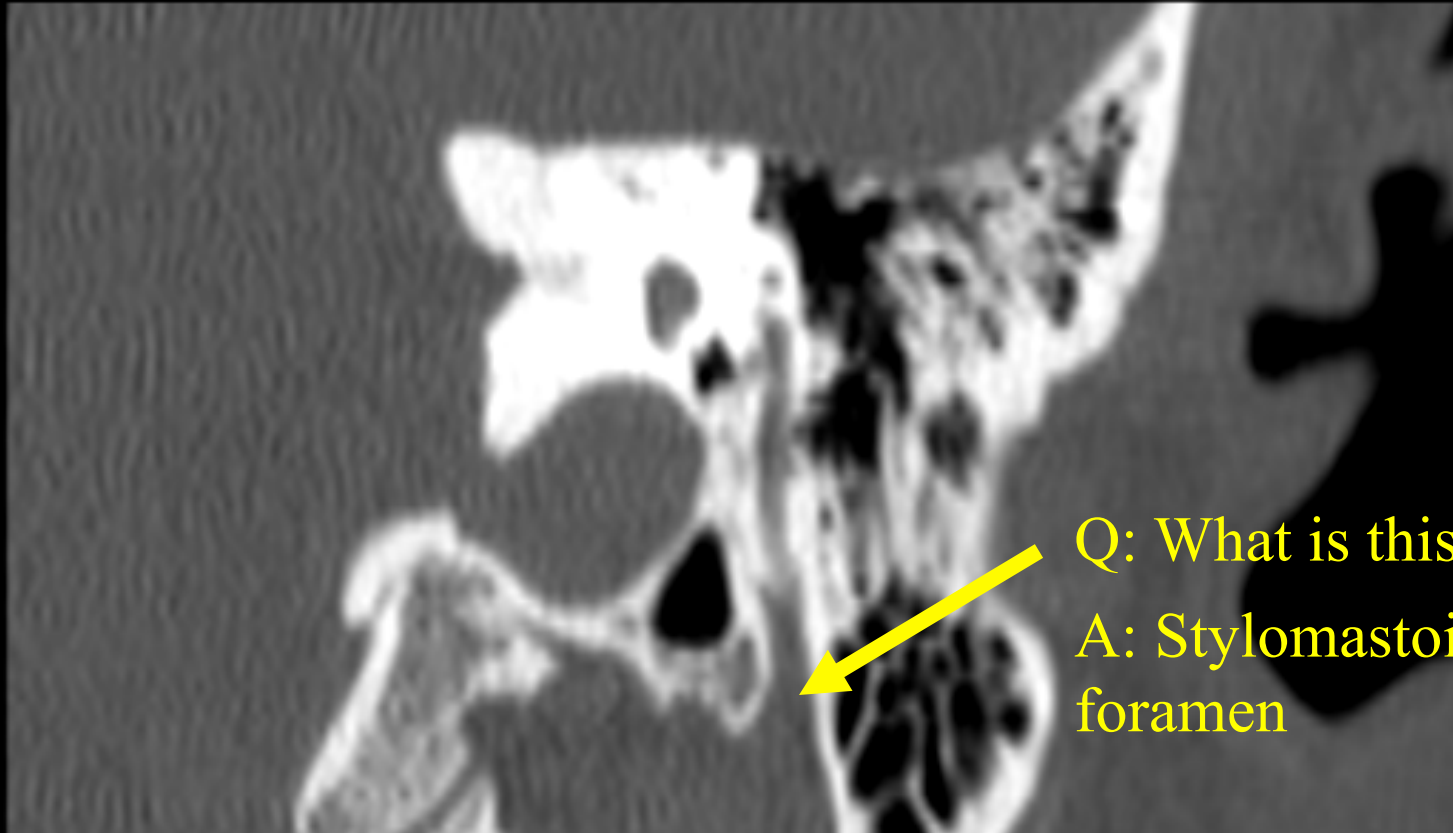
Left temporal bone

Superior

Coronal images

Medial

Lateral



Q: What is this?

A: Stylomastoid foramen

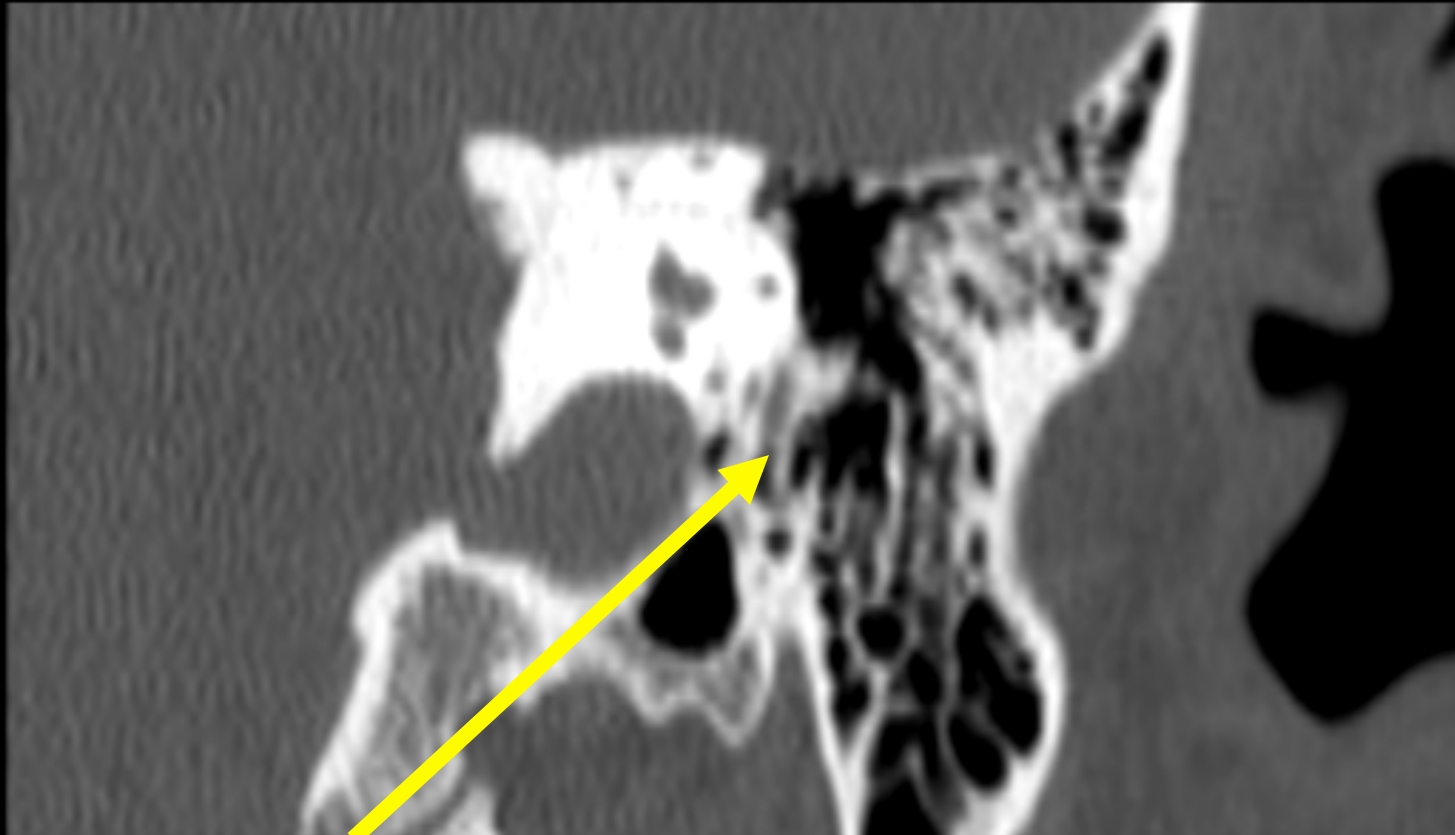
Inferior

Left temporal bone

Superior

Coronal images

Medial



Lateral

Q: What is this? A: Facial nerve

Inferior

Left temporal bone

Superior

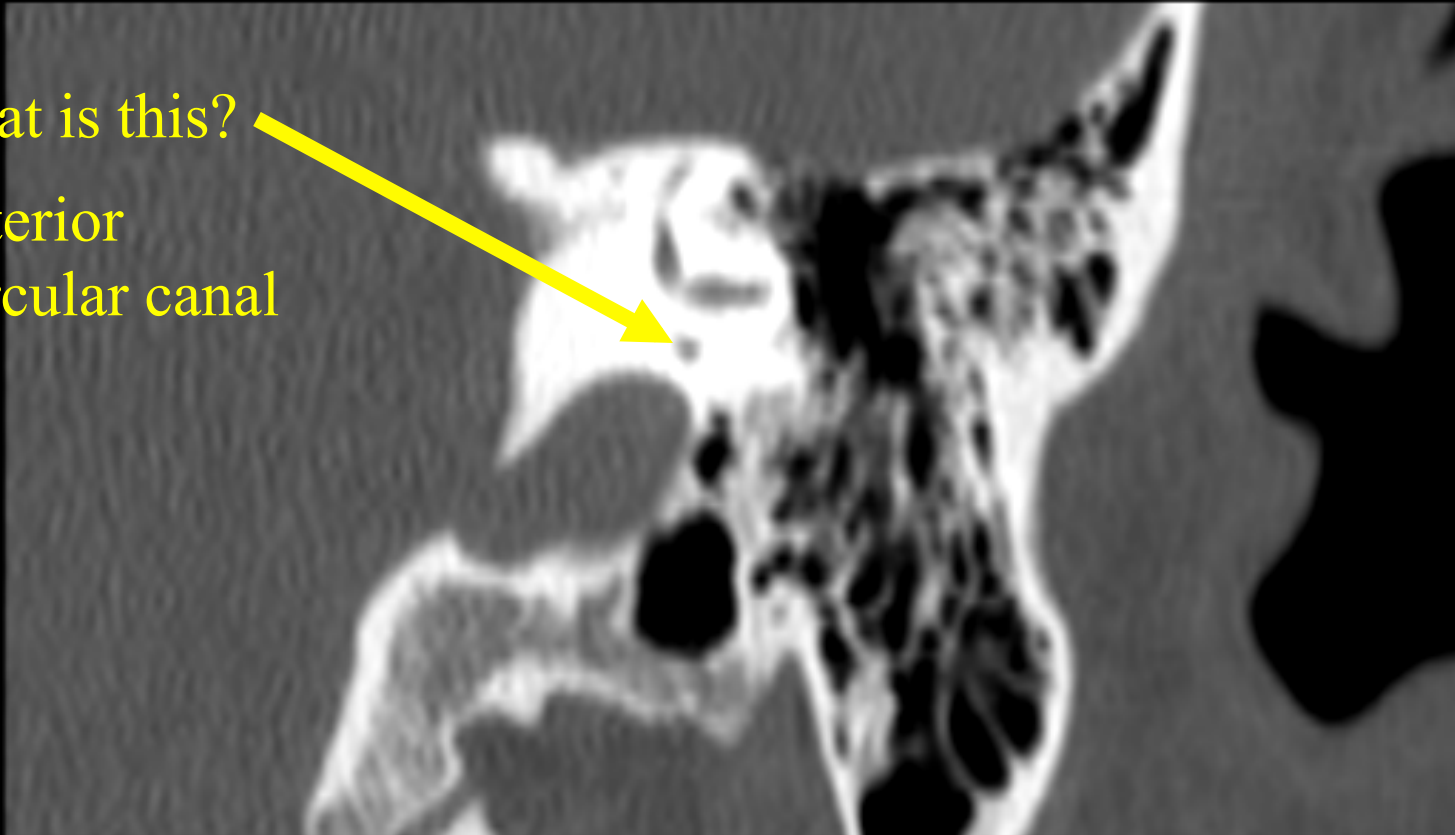
Coronal images

Q: What is this?

A: Posterior
semicircular canal

Medial

Lateral



Inferior

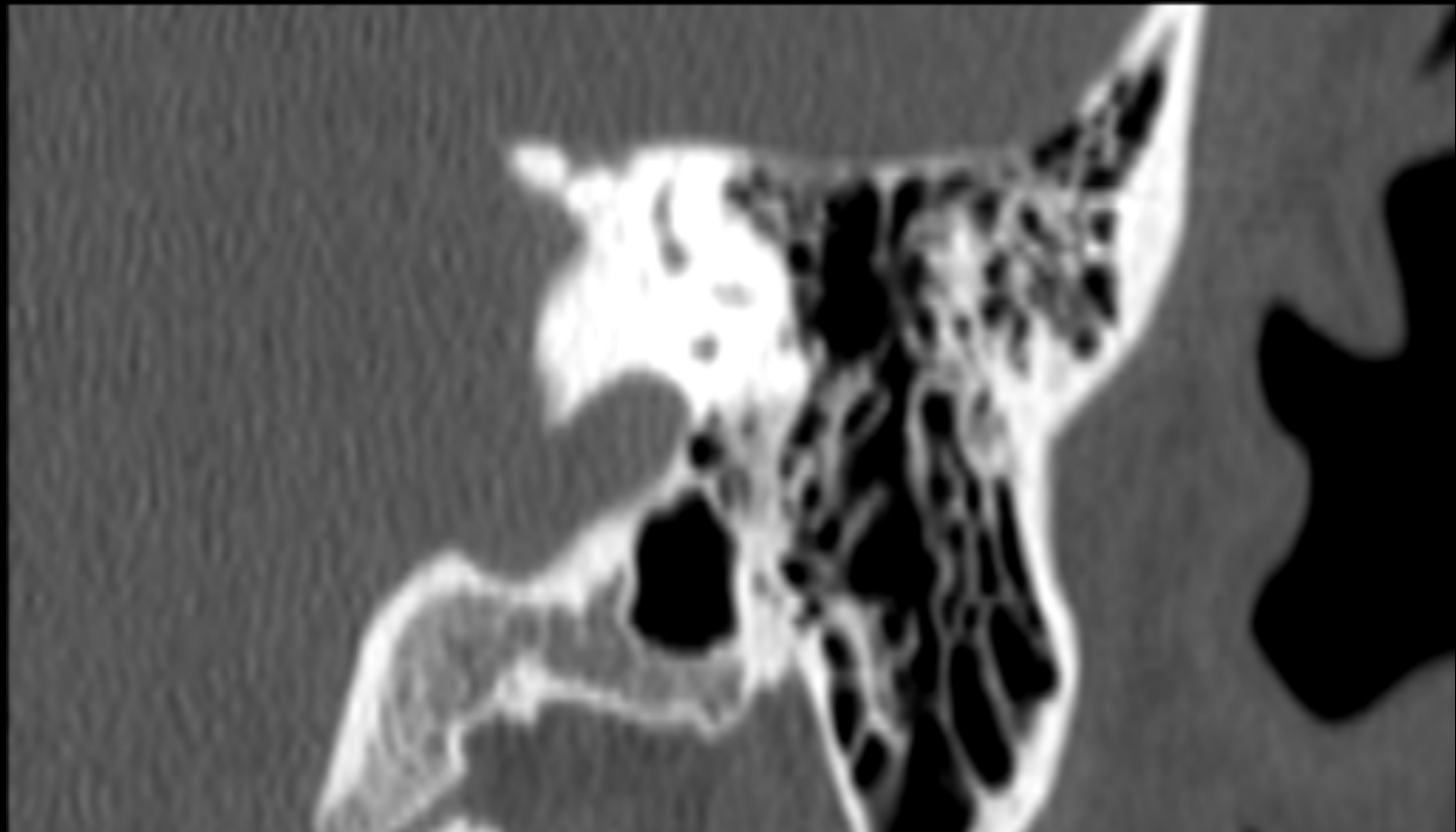
Compressed 8 :1
IM: 35 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

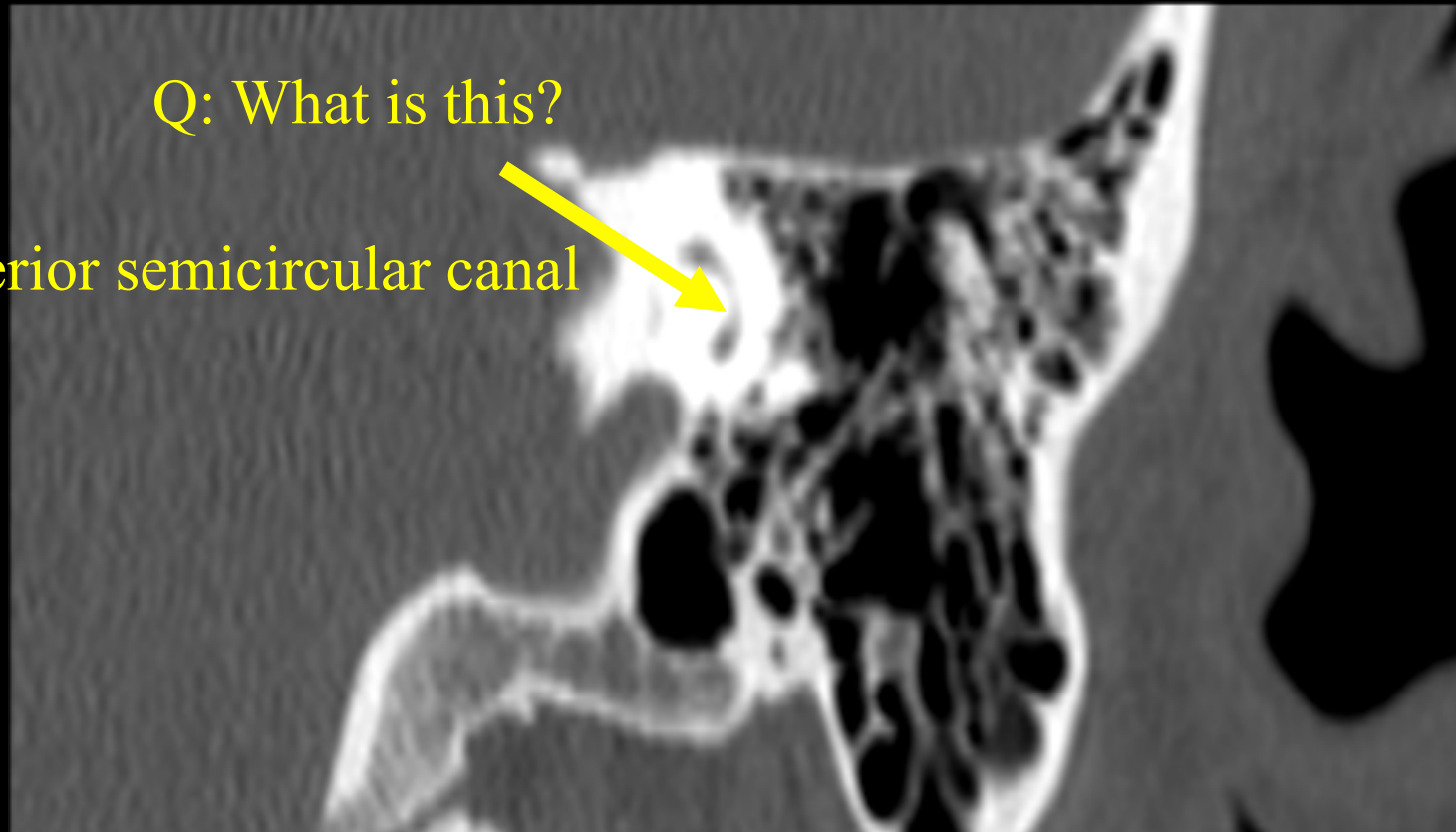
Inferior

Compressed 9 :1
IM: 34 SE: 400
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Left temporal bone

Superior

Coronal images



Q: What is this?

A: Posterior semicircular canal

Medial

Lateral

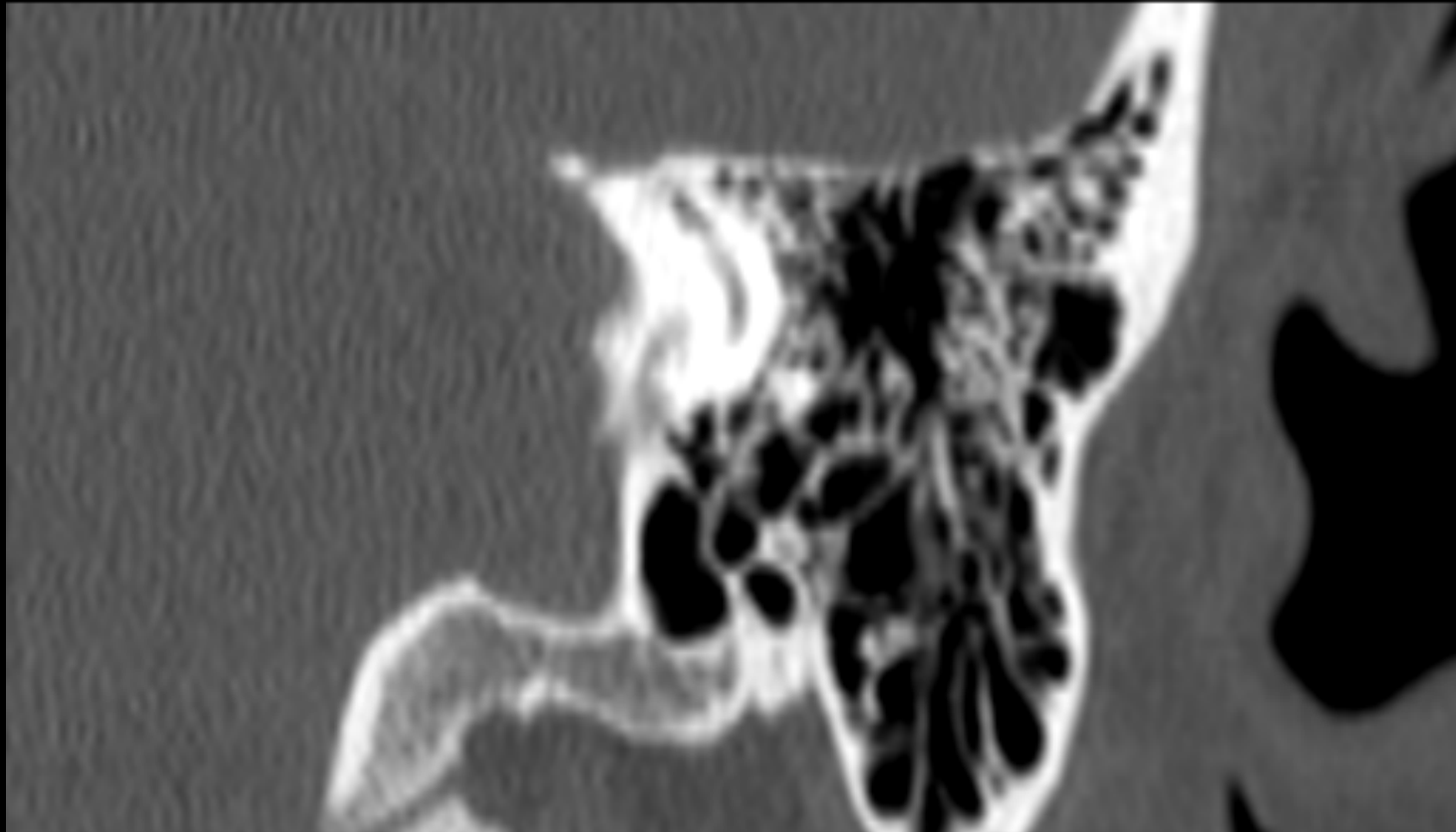
Inferior

Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

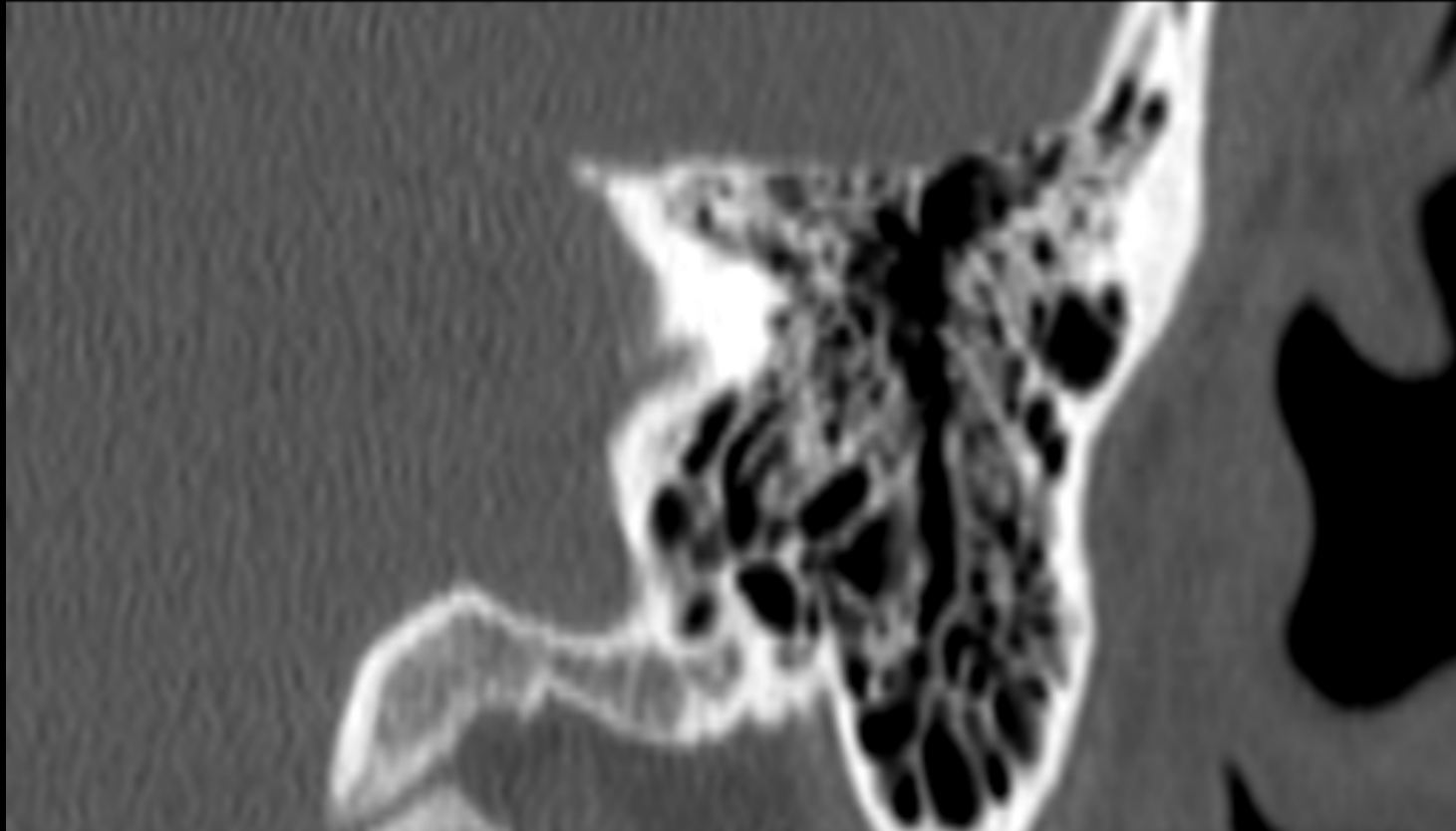
Compressed 8 :1
IM: 32 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

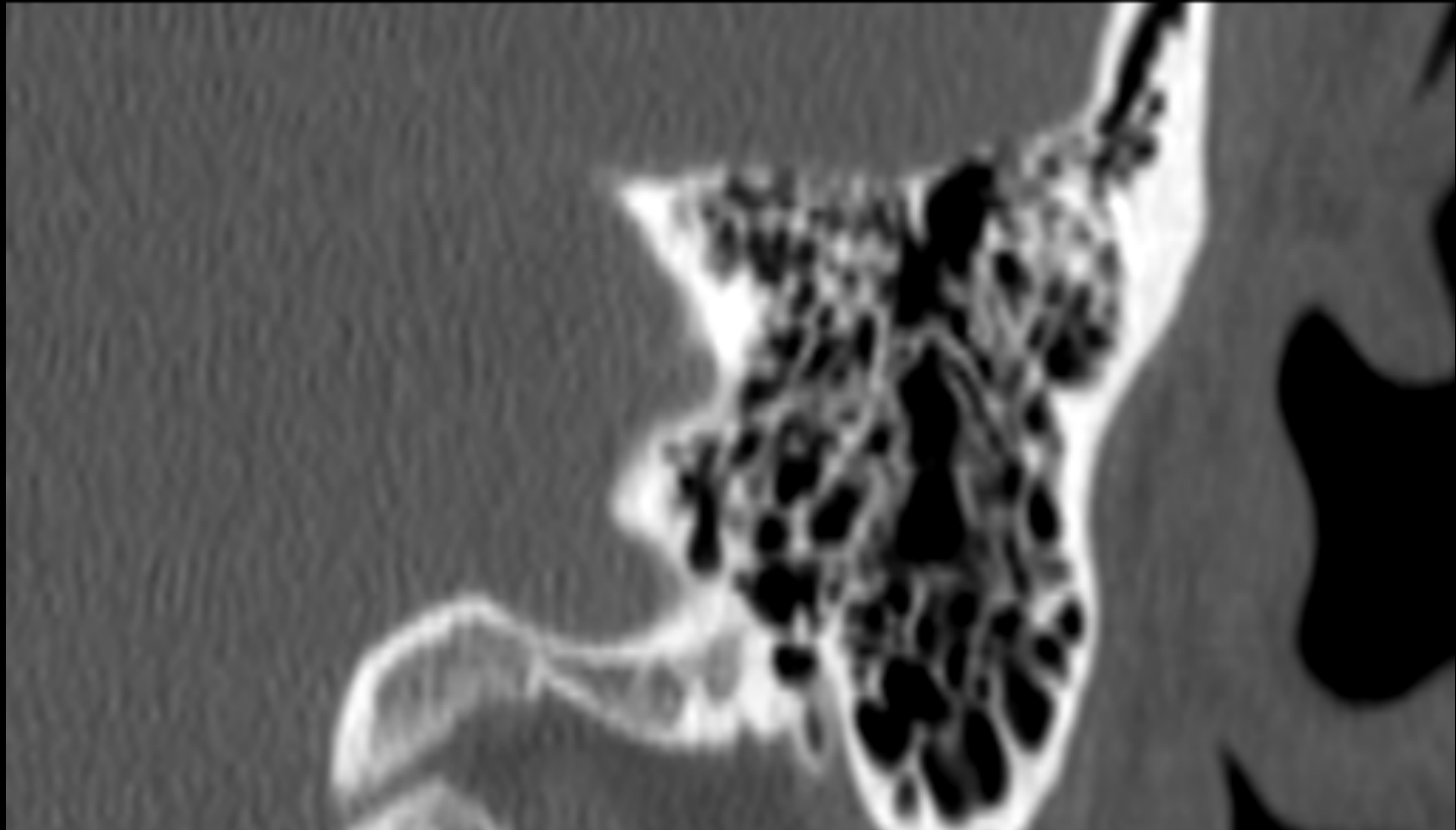
Compressed 8 :1
IM: 31 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

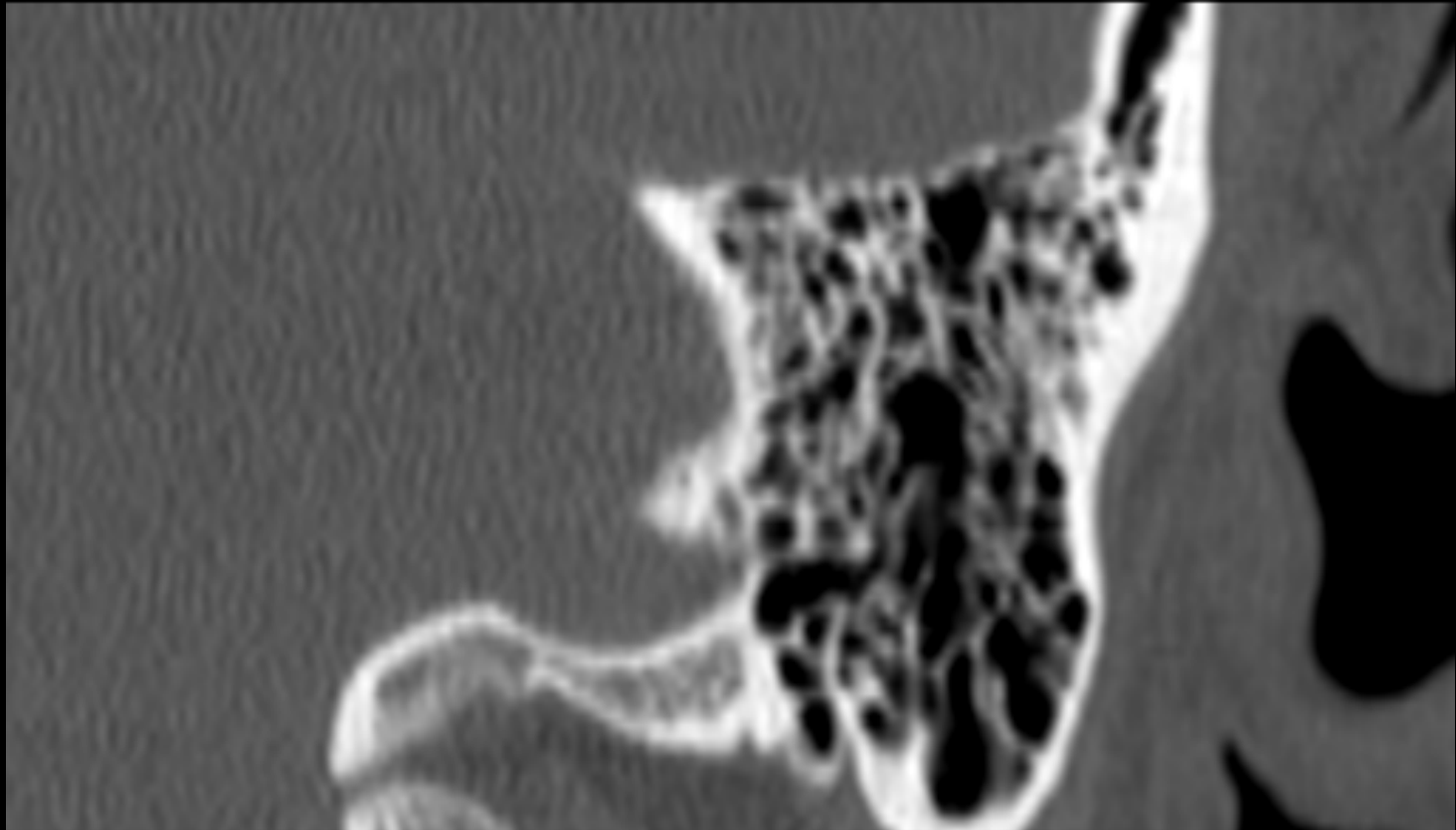
Compressed 8 :1
IM: 30 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

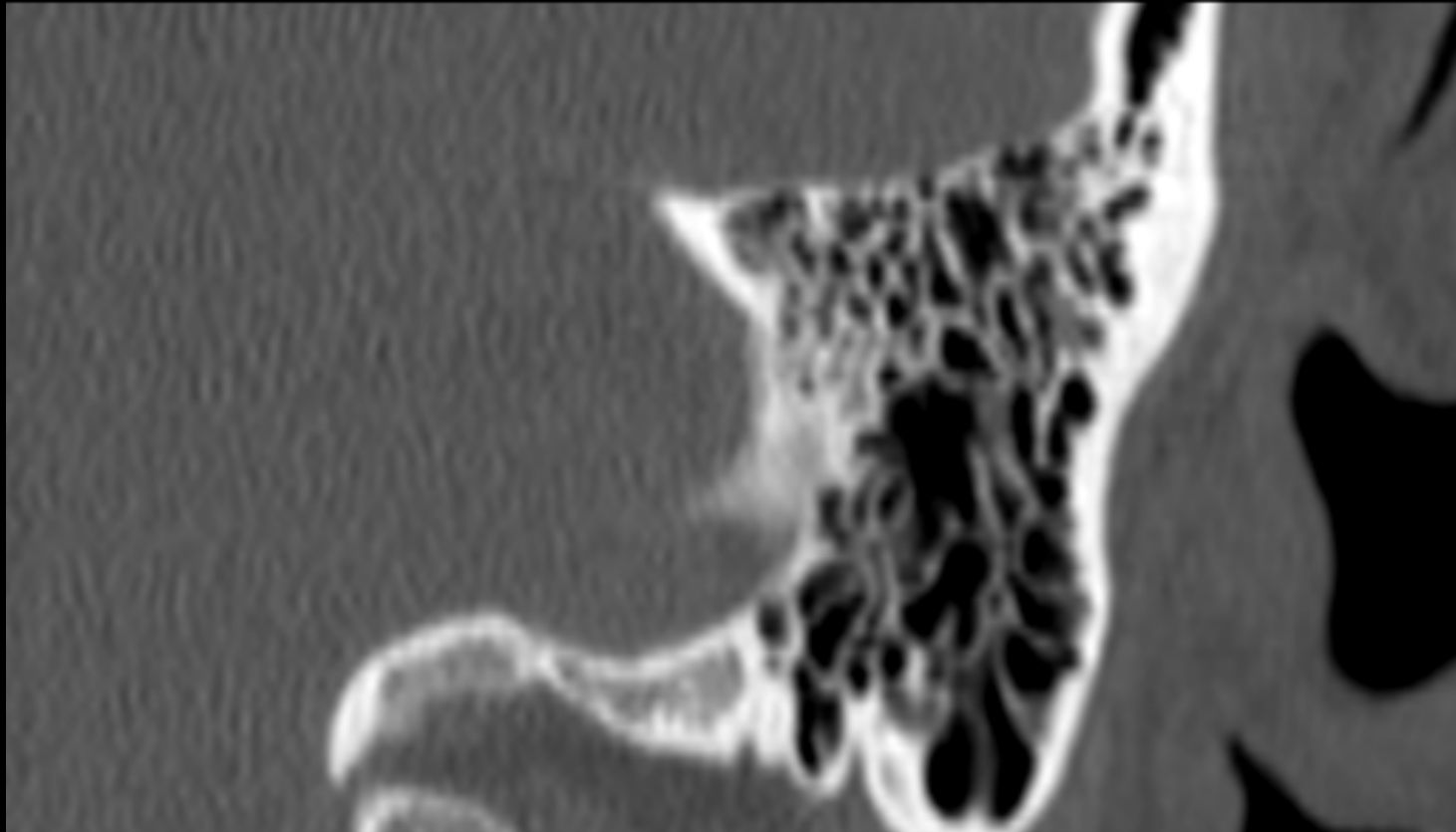
Compressed 8 :1
IM: 29 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

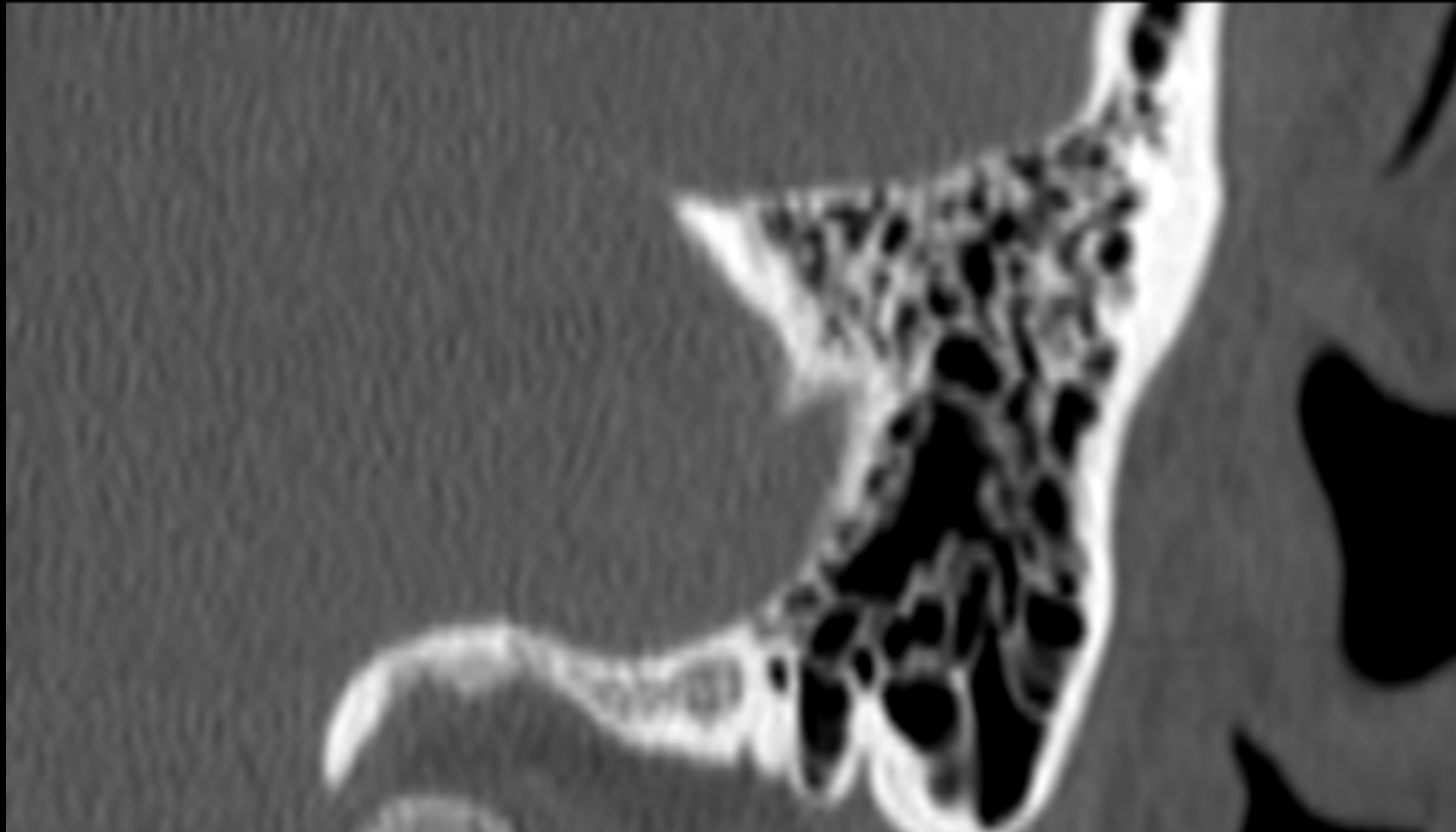
Compressed 8 :1
IM: 28 SE: 400
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Left temporal bone

Superior

Coronal images

Medial



Lateral

Inferior

Compressed 8 :1
IM: 27 SE: 400
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