

Pocket Atlas of Head and Neck MRI Anatomy

Second Edition

〔美〕 Robert B. Lufkin 著

廉宗澂 译

头颈磁共振成像解剖袖珍图谱



第二版

Lippincott Williams & Wilkins Inc.

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出版

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Preface 序

本书旨在为读者提供一本头颈磁共振成像解剖袖珍图谱。解剖图像以轴面、矢状面和冠状面显示，有些部位用斜面显示。

书中大多数图像用 T1 加权自旋回波序列完成，用以获得最高的脂肪 - 肌肉对比度，从而使筋膜平面显示达到最佳，筋膜的显示对头颈部解剖非常重要。

有些解剖部位如颈、颞骨和颞颌关节应用表面线圈成像，它比标准的头线圈和体线圈有明显的优点。图像是用广泛应用的商业性全身型临床磁共振成像机完成的。

每幅图像的扫描平面和部位均附有标注的说明图。本书附有参考文献以供有兴趣的读者参考更为详细的头颈部解剖资料。

Translator's Words 译者序

随着影像技术的迅速发展，影像诊断学在临床医学领域中的作用不断增大，在许多疾病的诊治中发挥了不可取代的作用。影像诊断学是以人体解剖学，特别是断面解剖为基础的专业，熟悉正常人体解剖断面，了解不同断面内的各种解剖结构在不同成像技术（如CT和MRI）上的形态是至关重要的。当前国内尚缺少比较系统详尽的影像学正常人体解剖图谱，特别是能够放在工作服衣袋内伸手可用的袖珍图谱尤为罕见。

天津科技翻译出版公司应广大专业工作者要求，自国际市场选择了八本最新版本的袖珍图谱，包括头颅、头颈、脊柱、男女骨盆、骨肌、人体（除头和脊柱之外）等，其中六册为MRI图谱，两册为CT图谱。图谱图像质量上乘，专业针对性强，除影像科医师和技师外，对于神经科、神经外科、骨科、眼科、耳鼻喉科、泌尿外科等各专科医师也是必要的参考书。为了使读者熟悉解剖专业英语词汇，便于查阅英文解剖参考书，本书并用中文和英文两种词汇。由于译者水平有限，译文中错误之处，尚祈读者斧正。

廉宗澍

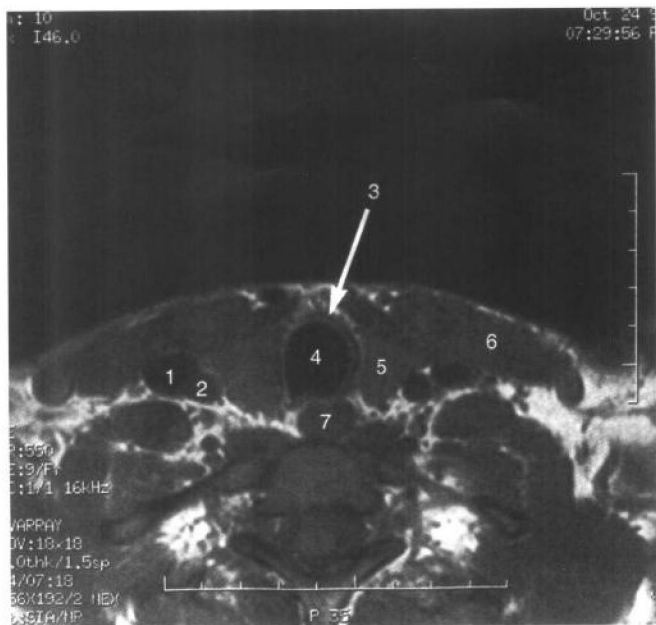
Contents 目录

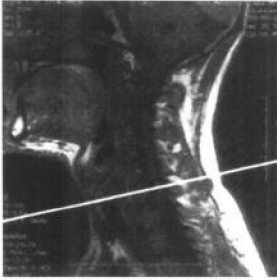
Neck, Larynx 颈, 喉	1
Axial 轴面.....	2
Sagittal 矢状面.....	10
Coronal 冠状面.....	13
Oropharynx, Oral Cavity 口咽, 口腔	17
Axial 轴面.....	18
Sagittal 矢状面.....	24
Coronal 冠状面.....	27
Nasopharynx, Skull Base, Sinuses 鼻咽, 颅底, 副鼻窦	33
Axial 轴面.....	34
Sagittal 矢状面.....	45
Coronal 冠状面.....	50
Temporal Bone 颞骨	57
Axial 轴面.....	58
Coronal 冠状面.....	63
Orbit 眼眶	67
Axial 轴面.....	68
Coronal 冠状面.....	73
Sagittal Oblique 斜矢状面.....	78
Temporomandibular Joint 颞颌关节	85
Closed Mouth View 闭口像.....	86
Open Mouth View 开口像.....	87
References 参考文献	89

Neck, Larynx

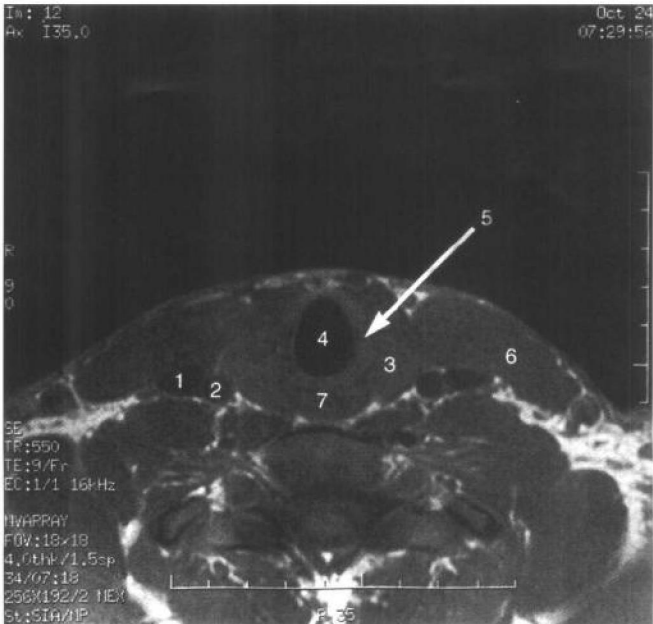
颈，喉

- | | |
|-------------------------------|----------|
| 1. internal jugular vein | 1. 颈内静脉 |
| 2. common carotid artery | 2. 颈总动脉 |
| 3. trachea | 3. 气管 |
| 4. airway | 4. 气道 |
| 5. thyroid gland | 5. 甲状腺 |
| 6. sternocleidomastoid muscle | 6. 胸锁乳突肌 |
| 7. esophagus | 7. 食管 |





- | | |
|-------------------------------|-----------|
| 1. internal jugular vein | 1. 颈内静脉 |
| 2. common carotid artery | 2. 颈总动脉 |
| 3. thyroid gland | 3. 甲状腺 |
| 4. airway | 4. 气道 |
| 5. cricoid cartilage | 5. 环状软骨 |
| 6. sternocleidomastoid muscle | 6. 胸锁乳突肌 |
| 7. postcricoid region | 7. 环状软骨后区 |

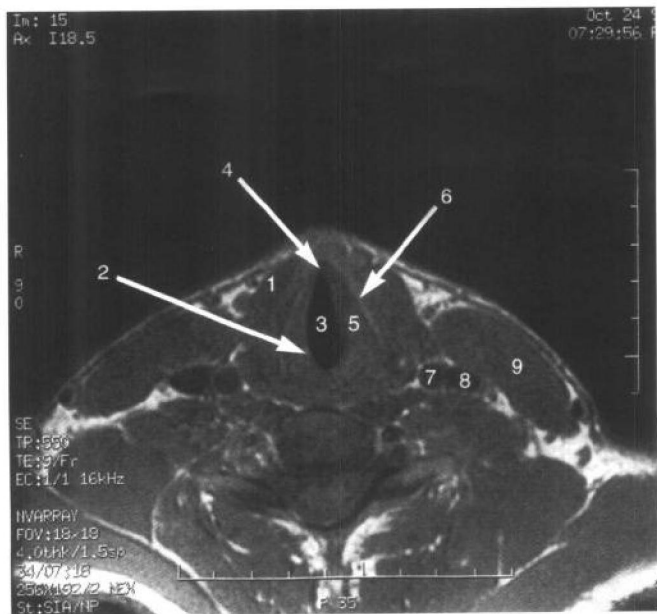


- | | |
|--------------------------------|----------|
| 1. internal jugular vein | 1. 颈内静脉 |
| 2. common carotid artery | 2. 颈总动脉 |
| 3. airway | 3. 气道 |
| 4. lamina of cricoid cartilage | 4. 环状软骨板 |
| 5. thyroid cartilage | 5. 甲状软骨 |
| 6. sternocleidomastoid muscle | 6. 胸锁乳突肌 |

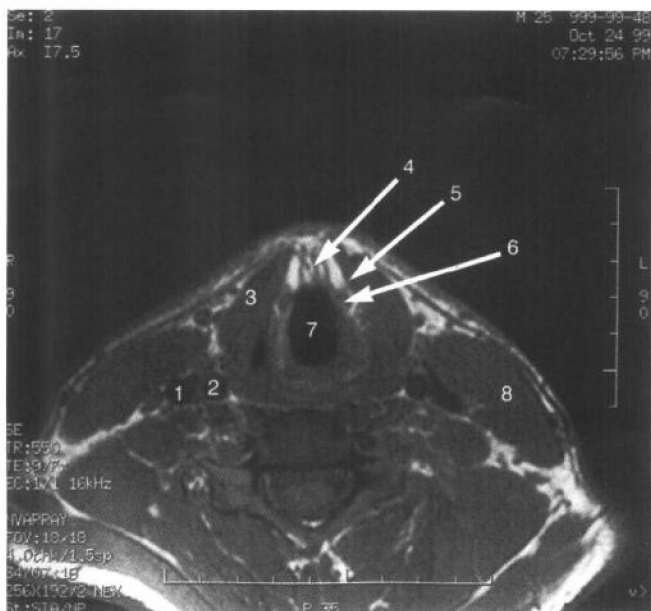




- | | |
|-------------------------------|----------|
| 1. strap muscles | 1. 带状肌 |
| 2. arytenoid cartilage | 2. 杓状软骨 |
| 3. airway | 3. 气道 |
| 4. anterior commissure | 4. 前连合 |
| 5. true vocal cord | 5. 真声带 |
| 6. thyroid cartilage | 6. 甲状软骨 |
| 7. common carotid artery | 7. 颈总动脉 |
| 8. internal jugular vein | 8. 颈内静脉 |
| 9. sternocleidomastoid muscle | 9. 胸锁乳突肌 |

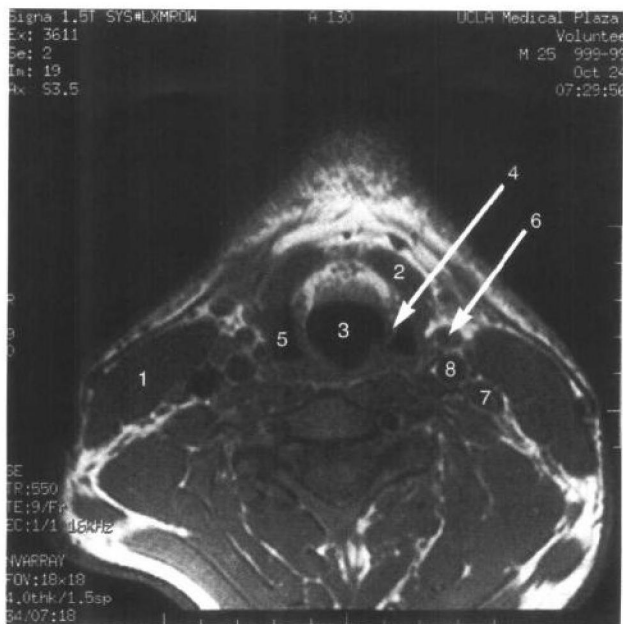


- | | |
|-------------------------------|----------|
| 1. internal jugular vein | 1. 颈内静脉 |
| 2. common carotid artery | 2. 颈总动脉 |
| 3. strap muscles | 3. 带状肌 |
| 4. preepiglottic space | 4. 会厌前间隙 |
| 5. thyroid cartilage | 5. 甲状软骨 |
| 6. paralaryngeal space | 6. 喉旁间隙 |
| 7. airway | 7. 气道 |
| 8. sternocleidomastoid muscle | 8. 胸锁乳突肌 |

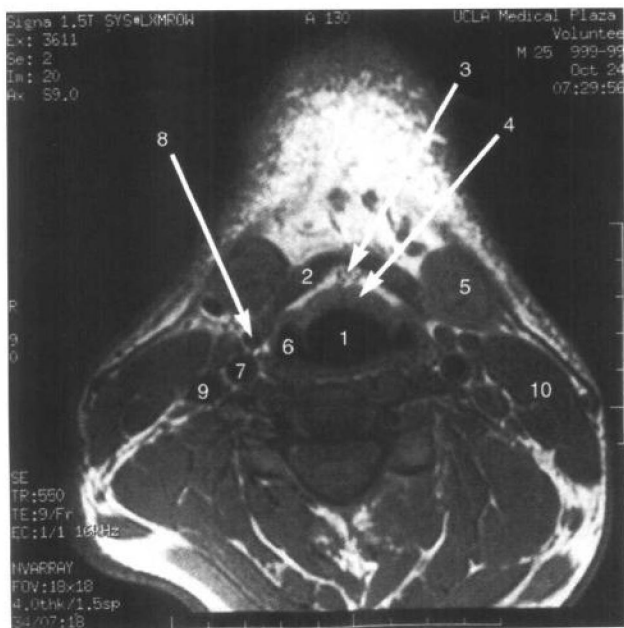




- | | |
|-------------------------------|----------|
| 1. sternocleidomastoid muscle | 1. 胸锁乳突肌 |
| 2. strap muscles | 2. 带状肌 |
| 3. airway | 3. 气道 |
| 4. aryepiglottic fold | 4. 杓状会厌襞 |
| 5. piriform sinus | 5. 梨状窝 |
| 6. external carotid artery | 6. 颈外动脉 |
| 7. internal jugular vein | 7. 颈内静脉 |
| 8. internal carotid artery | 8. 颈内动脉 |

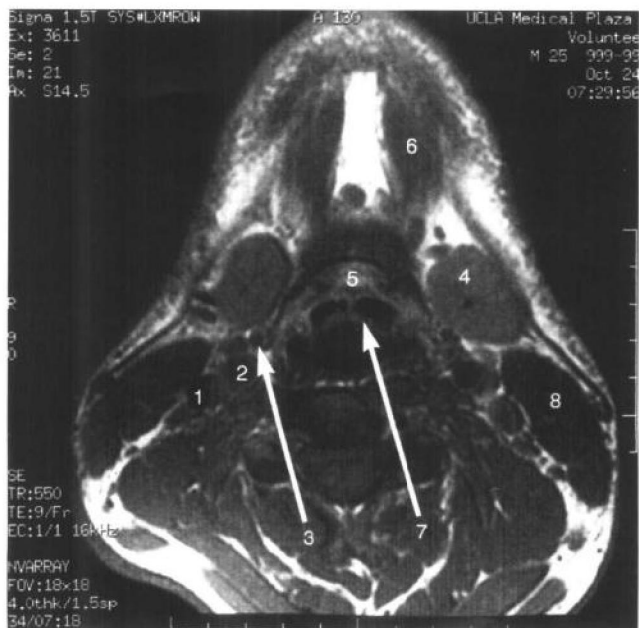


- | | |
|--------------------------------|-----------|
| 1. airway | 1. 气道 |
| 2. strap muscles | 2. 带状肌 |
| 3. preepiglottic space | 3. 会厌前间隙 |
| 4. epiglottis | 4. 会厌 |
| 5. submandibular gland | 5. 颌下腺 |
| 6. piriform sinus | 6. 梨状窝 |
| 7. internal carotid artery | 7. 颈内动脉 |
| 8. external carotid artery | 8. 颈外动脉 |
| 9. internal jugular vein | 9. 颈内静脉 |
| 10. sternocleidomastoid muscle | 10. 胸锁乳突肌 |

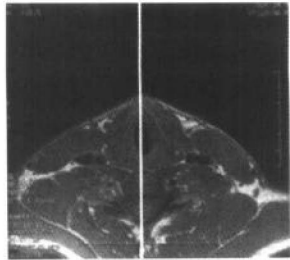


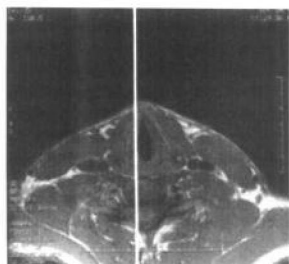


- | | |
|-------------------------------|----------|
| 1. internal jugular vein | 1. 颈内静脉 |
| 2. internal carotid artery | 2. 颈内动脉 |
| 3. external carotid artery | 3. 颈外动脉 |
| 4. submandibular gland | 4. 颌下腺 |
| 5. hyoid bone | 5. 舌骨 |
| 6. anterior digastric muscles | 6. 前二腹肌 |
| 7. free margin of epiglottis | 7. 会厌游离缘 |
| 8. sternocleidomastoid muscle | 8. 胸锁乳突肌 |



- | | |
|------------------------------|-----------|
| 1. preepiglottic space | 1. 会厌前间隙 |
| 2. hyoid bone | 2. 舌骨 |
| 3. free margin of epiglottis | 3. 会厌游离缘 |
| 4. arytenoid cartilage | 4. 杓状软骨 |
| 5. cricoid cartilage | 5. 环状软骨 |
| 6. postcricoid region | 6. 环状软骨后区 |
| 7. trachea | 7. 气管 |
| 8. laryngeal ventricle | 8. 喉室 |
| 9. true vocal cord | 9. 真声带 |
| 10. false vocal cord | 10. 假声带 |

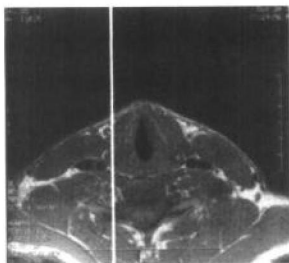


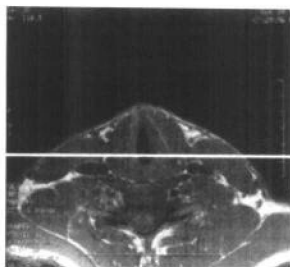


- | | |
|------------------------------|----------|
| 1. hyoid bone | 1. 舌骨 |
| 2. preepiglottic space | 2. 会厌前间隙 |
| 3. free margin of epiglottis | 3. 会厌游离缘 |
| 4. paralaryngeal space | 4. 喉旁间隙 |
| 5. trachea | 5. 气管 |
| 6. cricoid cartilage | 6. 环状软骨 |

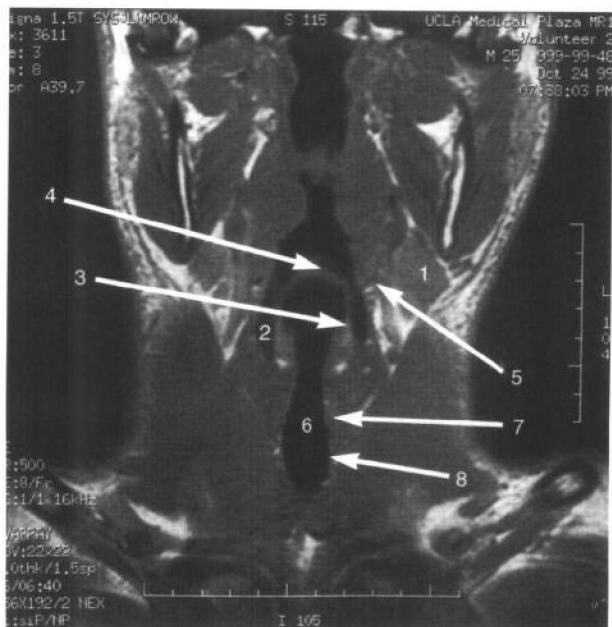


- | | |
|---------------------|--------|
| 1. hyoid bone | 1. 舌骨 |
| 2. vertebral artery | 2. 椎动脉 |
| 3. strap muscles | 3. 带状肌 |

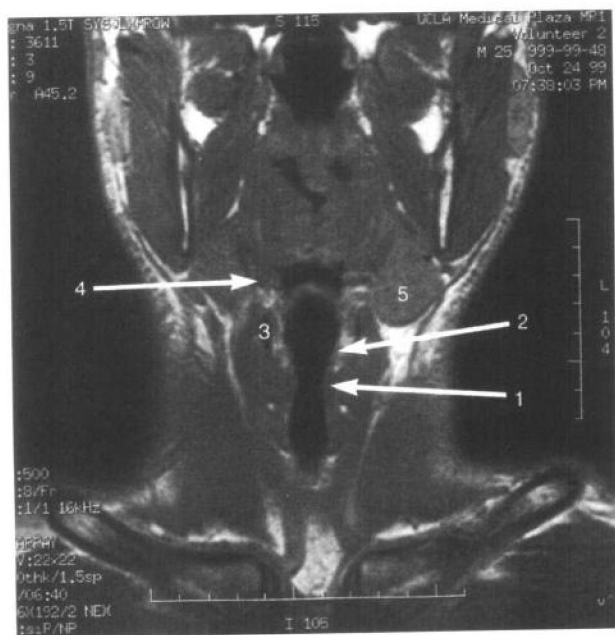
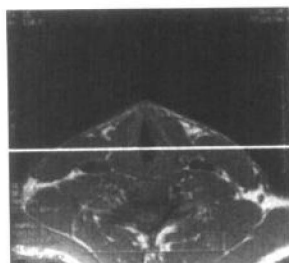


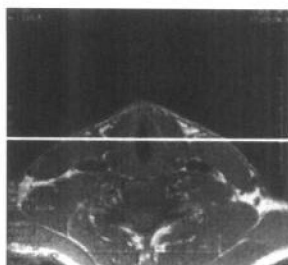


- | | |
|------------------------|----------|
| 1. submandibular gland | 1. 颌下腺 |
| 2. piriform sinus | 2. 梨状窝 |
| 3. aryepiglottic fold | 3. 杓状会厌襞 |
| 4. epiglottis | 4. 会厌 |
| 5. hyoid bone | 5. 舌骨 |
| 6. airway | 6. 气道 |
| 7. cricoid cartilage | 7. 环状软骨 |
| 8. trachea | 8. 气管 |

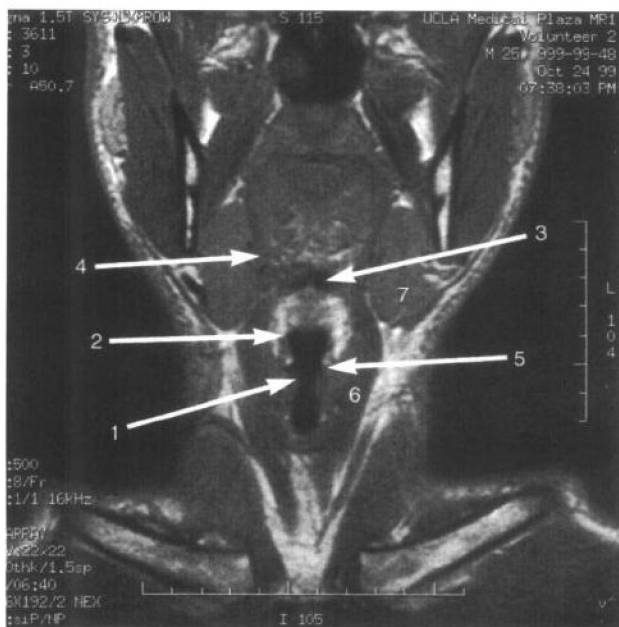


- | | |
|------------------------|---------|
| 1. true vocal cords | 1. 真声带 |
| 2. paralaryngeal space | 2. 喉旁间隙 |
| 3. piriform sinus | 3. 梨状窝 |
| 4. hyoid bone | 4. 舌骨 |
| 5. submandibular gland | 5. 颌下腺 |

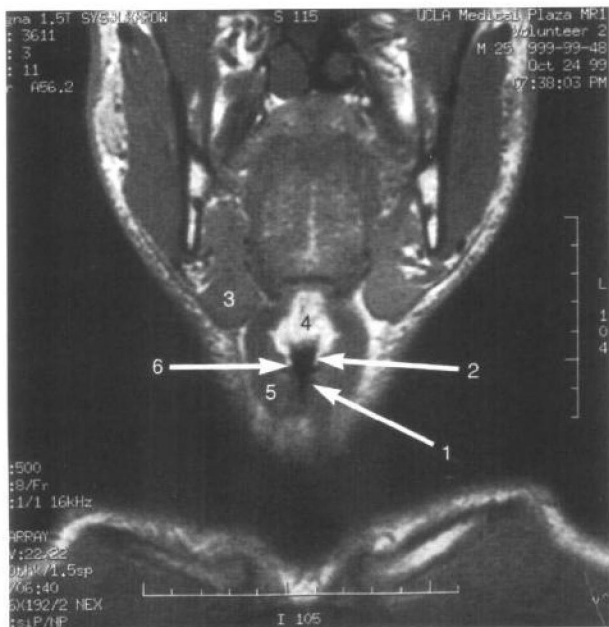
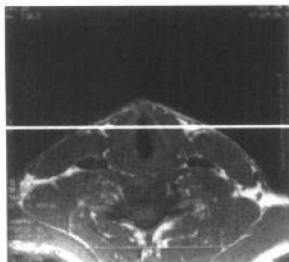




- | | |
|------------------------|---------|
| 1. true vocal cords | 1. 真声带 |
| 2. paralaryngeal space | 2. 喉旁间隙 |
| 3. valleculae | 3. 会厌谷 |
| 4. hyoid bone | 4. 舌骨 |
| 5. ventricle | 5. 喉室 |
| 6. strap muscles | 6. 带状肌 |
| 7. submandibular gland | 7. 颌下腺 |



- | | |
|------------------------|----------|
| 1. true vocal cords | 1. 真声带 |
| 2. paralaryngeal space | 2. 喉旁间隙 |
| 3. submandibular gland | 3. 颌下腺 |
| 4. preepiglottic space | 4. 会厌前间隙 |
| 5. strap muscles | 5. 带状肌 |
| 6. ventricle | 6. 喉室 |

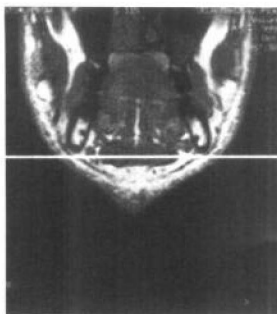


Oropharynx, Oral Cavity

口咽，口腔

- | | |
|---------------------------------------|----------|
| 1. mandible | 1. 下颌骨 |
| 2. anterior belly of digastric muscle | 2. 二腹肌前腹 |
| 3. mylohyoid muscle | 3. 下颌舌骨肌 |
| 4. hyoid bone | 4. 舌骨 |
| 5. submandibular gland | 5. 颌下腺 |
| 6. vallecula | 6. 会厌谷 |
| 7. epiglottis | 7. 会厌 |
| 8. sternocleidomastoid muscle | 8. 胸锁乳突肌 |
| 9. airway | 9. 气道 |

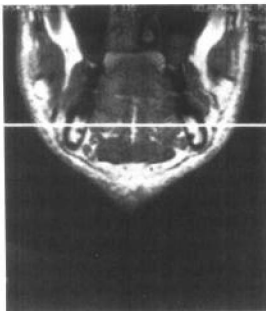


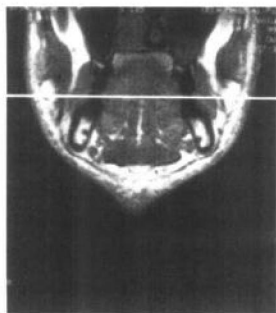


- | | |
|-------------------------------|----------|
| 1. epiglottis | 1. 会厌 |
| 2. mandible | 2. 下颌骨 |
| 3. mylohyoid muscle | 3. 下颌舌骨肌 |
| 4. lingual septum | 4. 舌中隔 |
| 5. airway | 5. 气道 |
| 6. submandibular gland | 6. 颌下腺 |
| 7. submandibular space | 7. 颌下间隙 |
| 8. sternocleidomastoid muscle | 8. 胸锁乳突肌 |



- | | |
|---|------------------|
| 1. submandibular gland | 1. 颌下腺 |
| 2. lingual septum | 2. 舌中隔 |
| 3. mandible | 3. 下颌骨 |
| 4. genioglossus muscle | 4. 颏舌肌 |
| 5. sublingual gland | 5. 舌下腺 |
| 6. interdigitation of styloglossus and hyoglossus muscles | 6. 茎突舌肌和舌骨舌肌的指状突 |
| 7. mylohyoid muscle | 7. 下颌舌骨肌 |
| 8. masseter muscle | 8. 咬肌 |
| 9. lingual tonsil | 9. 舌扁桃体 |
| 10. sternocleidomastoid muscle | 10. 胸锁乳突肌 |

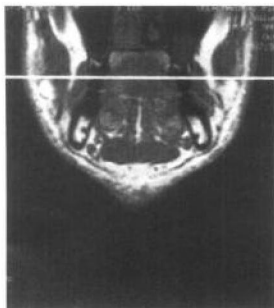


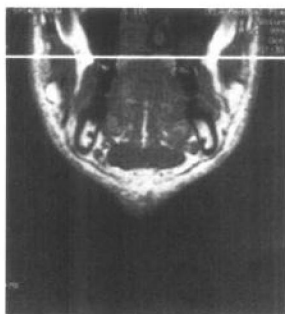


- | | |
|---|-----------|
| 1. mandible | 1. 下颌骨 |
| 2. sternocleidomastoid muscle | 2. 胸锁乳突肌 |
| 3. genioglossus muscle | 3. 颏舌肌 |
| 4. lingual septum | 4. 舌中隔 |
| 5. teeth | 5. 牙 |
| 6. superior longitudinal intrinsic tongue muscles | 6. 舌上内纵肌 |
| 7. masseter muscle | 7. 咬肌 |
| 8. medial pterygoid muscle | 8. 翼内肌 |
| 9. palatine tonsil | 9. 腭扁桃体 |
| 10. parotid gland | 10. 腮腺 |
| 11. prevertebral muscles | 11. 椎前肌 |
| 12. posterior belly of digastric muscle | 12. 二腹肌后腹 |



- | | |
|-------------------------------|----------|
| 1. medial pterygoid muscle | 1. 翼内肌 |
| 2. masseter muscle | 2. 咬肌 |
| 3. alveolar ridge of maxilla | 3. 上颌牙槽嵴 |
| 4. mobile tongue | 4. 活动舌 |
| 5. mandible | 5. 下颌骨 |
| 6. sternocleidomastoid muscle | 6. 胸锁乳突肌 |
| 7. parotid gland | 7. 腮腺 |
| 8. retromandibular vein | 8. 下颌后静脉 |
| 9. parapharyngeal space | 9. 咽旁间隙 |
| 10. airway | 10. 气道 |

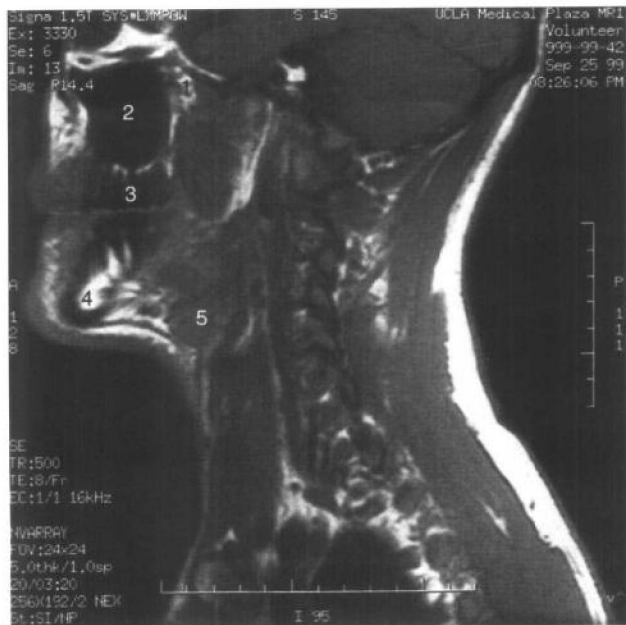
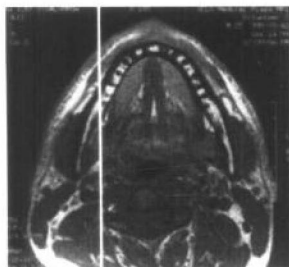


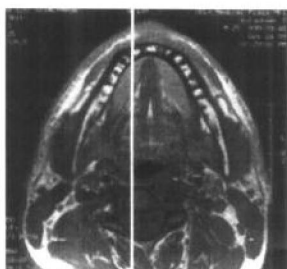


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|-----------------------------|---------|
| 1. parapharyngeal space | 1. 咽旁间隙 |
| 2. soft palate | 2. 软腭 |
| 3. hard palate | 3. 硬腭 |
| 4. maxilla | 4. 上颌骨 |
| 5. pterygoid plates | 5. 翼板 |
| 6. masseter muscle | 6. 咬肌 |
| 7. lateral pterygoid muscle | 7. 翼外肌 |
| 8. mandible | 8. 下颌骨 |
| 9. mastoid tip | 9. 乳突尖 |
| 10. parotid gland | 10. 腮腺 |
| 11. prevertebral muscles | 11. 椎前肌 |



- | | |
|--------------------------|--------|
| 1. pterygopalatine fossa | 1. 翼腭窝 |
| 2. maxillary sinus | 2. 上颌窦 |
| 3. teeth | 3. 牙 |
| 4. mandible | 4. 下颌骨 |
| 5. submandibular gland | 5. 颌下腺 |

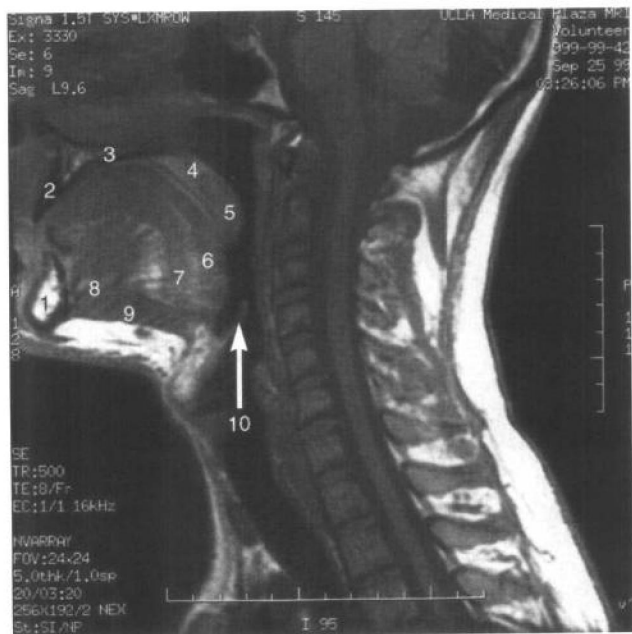
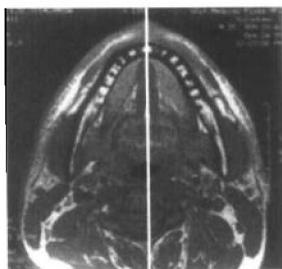


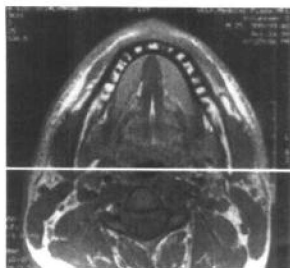


- | | |
|--|----------|
| 1. mandible | 1. 下颌骨 |
| 2. teeth | 2. 牙 |
| 3. hard palate | 3. 硬腭 |
| 4. soft palate | 4. 软腭 |
| 5. uvula | 5. 悬雍垂 |
| 6. superior longitudinal
intrinsic muscle | 6. 舌上内纵肌 |
| 7. hyoid bone | 7. 舌骨 |
| 8. geniohyoid muscle | 8. 颏舌骨肌 |
| 9. epiglottis | 9. 会厌 |



- | | |
|---|----------|
| 1. mandible | 1. 下颌骨 |
| 2. teeth | 2. 牙 |
| 3. hard palate | 3. 硬腭 |
| 4. soft palate | 4. 软腭 |
| 5. uvula | 5. 悬雍垂 |
| 6. superior longitudinal intrinsic muscle | 6. 舌上内纵肌 |
| 7. transverse intrinsic muscle | 7. 舌内横肌 |
| 8. genioglossus muscle | 8. 颞舌肌 |
| 9. geniohyoid muscle | 9. 颞舌骨肌 |
| 10. epiglottis | 10. 会厌 |

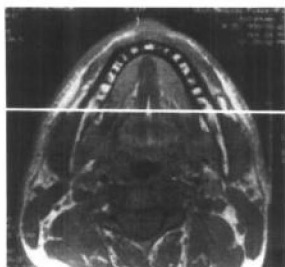




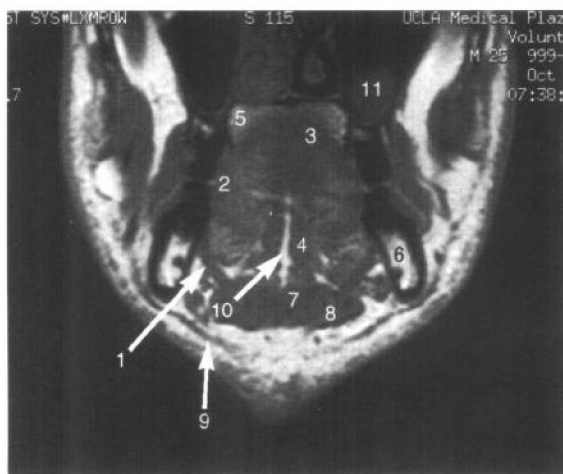
- | | |
|-----------------------------|---------|
| 1. submandibular gland | 1. 颌下腺 |
| 2. sphenoid sinus | 2. 蝶窦 |
| 3. parapharyngeal space | 3. 咽旁间隙 |
| 4. lateral pterygoid muscle | 4. 翼外肌 |
| 5. medial pterygoid muscle | 5. 翼内肌 |
| 6. mandible | 6. 下颌肌 |
| 7. masseter muscle | 7. 咬肌 |
| 8. palatine tonsil | 8. 腭扁桃体 |
| 9. uvula | 9. 悬雍垂 |



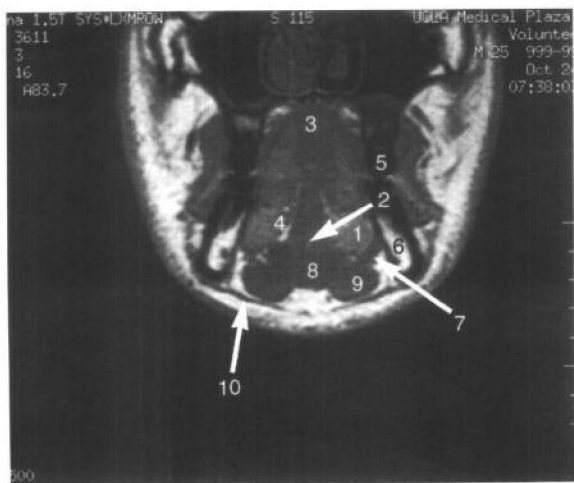
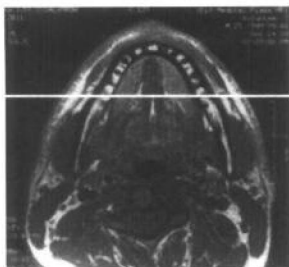
- | | |
|---|----------------------|
| 1. submandibular gland | 1. 颌下腺 |
| 2. lingual septum | 2. 舌中隔 |
| 3. hard palate | 3. 硬腭 |
| 4. mandibular nerve | 4. 下颌神经 |
| 5. masseter muscle | 5. 咬肌 |
| 6. mandible | 6. 下颌骨 |
| 7. mylohyoid muscle | 7. 下颌舌骨肌 |
| 8. interdigitation of
styloglossus and
hyoglossus muscles | 8. 茎突舌肌和舌骨
舌肌的指状突 |
| 9. hyoid bone | 9. 舌骨 |

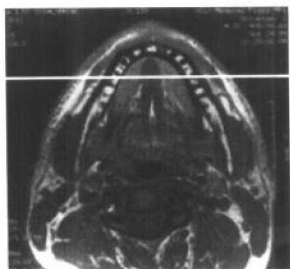


- | | |
|---|------------------|
| 1. mylohyoid muscle | 1. 下颌舌骨肌 |
| 2. interdigitation of styloglossus and hyoglossus muscles | 2. 茎突舌肌和舌骨舌肌的指状突 |
| 3. mobile tongue | 3. 活动舌 |
| 4. genioglossus muscles | 4. 颏舌肌 |
| 5. hard palate | 5. 硬腭 |
| 6. mandible | 6. 下颌骨 |
| 7. geniohyoid muscles | 7. 颏舌骨肌 |
| 8. anterior belly of digastric muscle | 8. 二腹肌前腹 |
| 9. platysma muscle | 9. 颈阔肌 |
| 10. lingual septum | 10. 舌中隔 |
| 11. retention cyst | 11. 滞留性囊肿 |

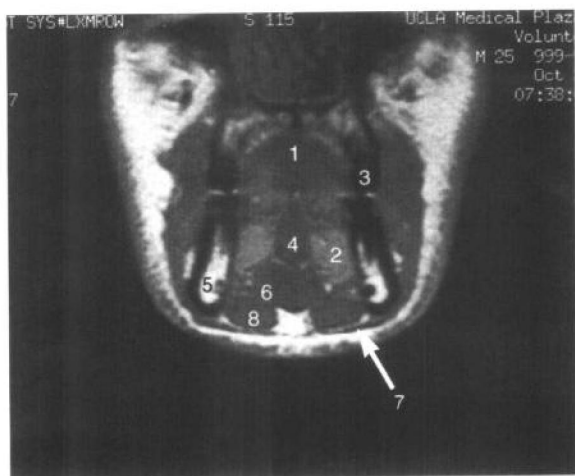


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|---------------------------------------|----------|
| 1. sublingual gland | 1. 舌下腺 |
| 2. lingual septum | 2. 舌中隔 |
| 3. mobile tongue | 3. 活动舌 |
| 4. genioglossus muscles | 4. 颏舌肌 |
| 5. teeth | 5. 牙 |
| 6. mandible | 6. 下颌骨 |
| 7. mylohyoid muscles | 7. 下颌舌骨肌 |
| 8. geniohyoid muscles | 8. 颏舌骨肌 |
| 9. anterior belly of digastric muscle | 9. 二腹肌前腹 |
| 10. platysma muscle | 10. 颈阔肌 |





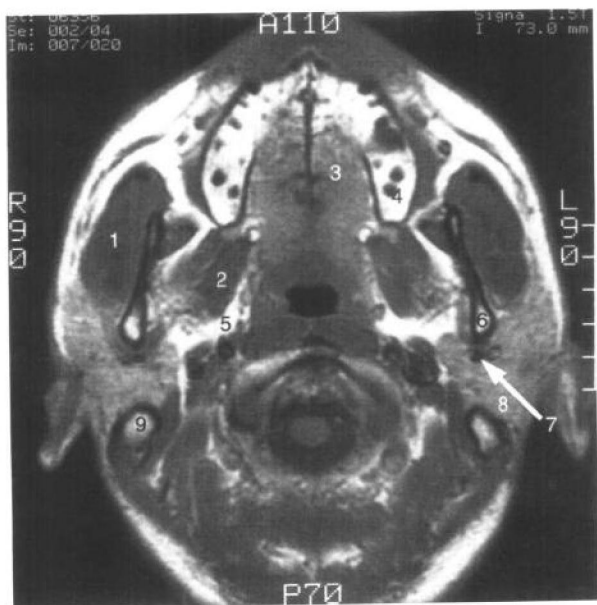
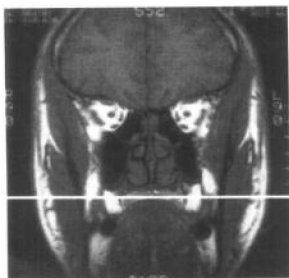
- | | |
|-------------------------------------|----------|
| 1. mobile tongue | 1. 活动舌 |
| 2. sublingual gland | 2. 舌下腺 |
| 3. teeth | 3. 牙 |
| 4. genioglossus muscle | 4. 颏舌肌 |
| 5. mandible | 5. 下颌骨 |
| 6. geniohyoid muscle | 6. 颏舌骨肌 |
| 7. platysma muscle | 7. 颈阔肌 |
| 8. anterior belly of gastric muscle | 8. 二腹肌前腹 |

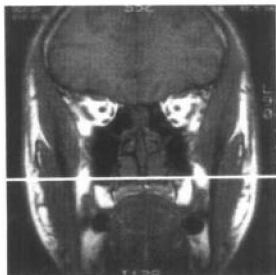


Nasopharynx, Skull Base, Sinuses

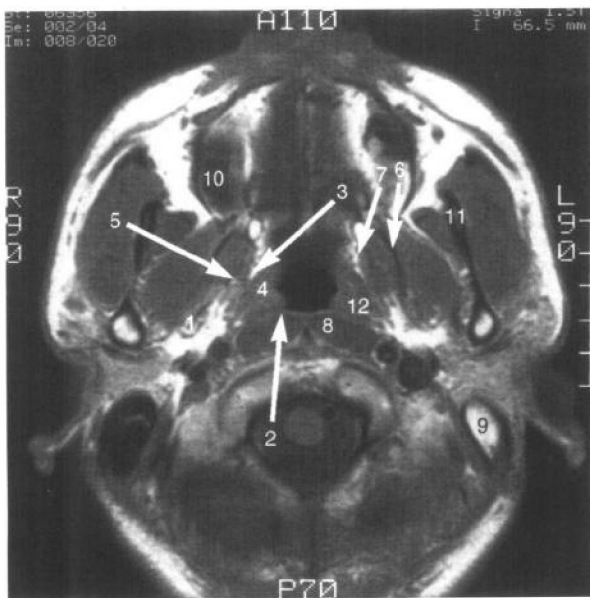
鼻咽， 颅底， 副鼻窦

- | | |
|----------------------------|----------|
| 1. masseter muscle | 1. 咬肌 |
| 2. medial pterygoid muscle | 2. 翼内肌 |
| 3. hard palate | 3. 硬腭 |
| 4. maxilla | 4. 上颌骨 |
| 5. parapharyngeal space | 5. 咽旁间隙 |
| 6. mandible | 6. 下颌骨 |
| 7. retromandibular vein | 7. 下颌后静脉 |
| 8. parotid gland | 8. 腮腺 |
| 9. mastoid tip | 9. 乳突尖 |

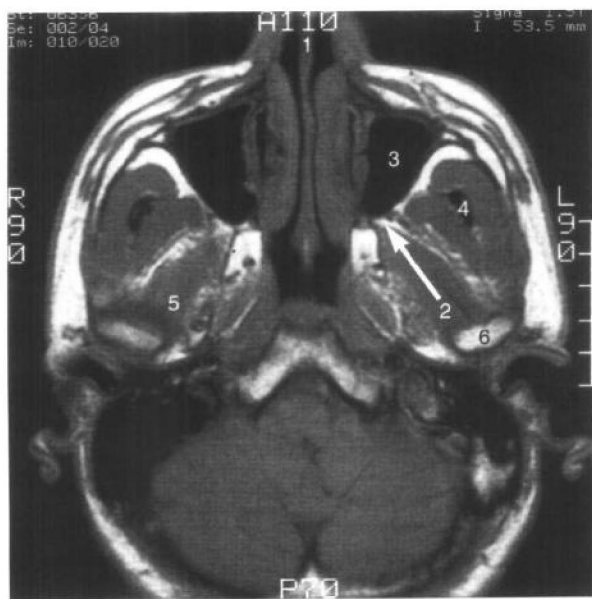


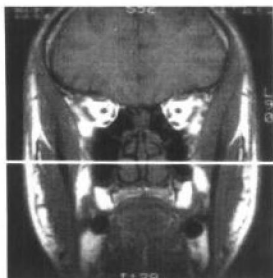


- | | |
|----------------------------|------------------------|
| 1. parapharyngeal space | 1. 咽旁间隙 |
| 2. fossa of Rosenmueller | 2. Rosenmueller 窝(咽隐窝) |
| 3. levator palatini muscle | 3. 腭提肌 |
| 4. eustachian tube orifice | 4. 咽鼓管口 |
| 5. tensor palatini muscle | 5. 腭张肌 |
| 6. lateral pterygoid plate | 6. 翼外板 |
| 7. medial pterygoid plate | 7. 翼内板 |
| 8. prevertebral muscles | 8. 椎前肌 |
| 9. mastoid tip | 9. 乳突尖 |
| 10. maxillary sinus | 10. 上颌窦 |
| 11. coronoid of mandible | 11. 下颌骨喙突 |
| 12. torus tubarius | 12. 咽鼓管圆枕 |

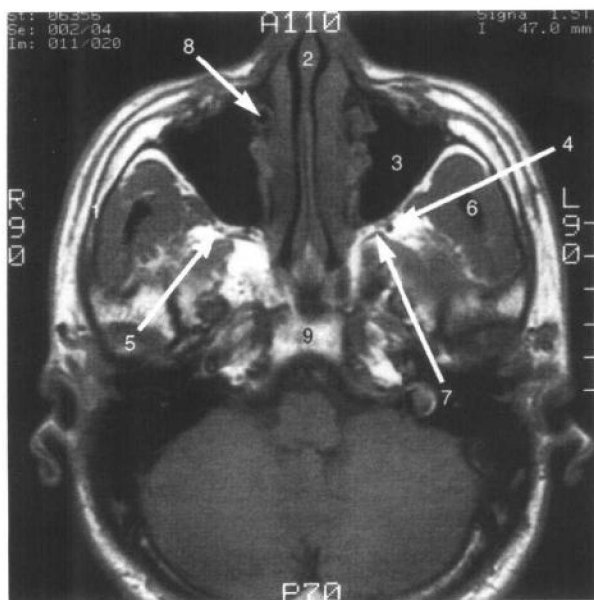


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|-----------------------------|----------|
| 1. nasal septum | 1. 鼻中隔 |
| 2. pterygopalatine fossa | 2. 翼腭窝 |
| 3. maxillary sinus | 3. 上颌窦 |
| 4. coronoid of mandible | 4. 下颌骨喙突 |
| 5. lateral pterygoid muscle | 5. 翼外肌 |
| 6. condyle of mandible | 6. 下颌骨髁突 |

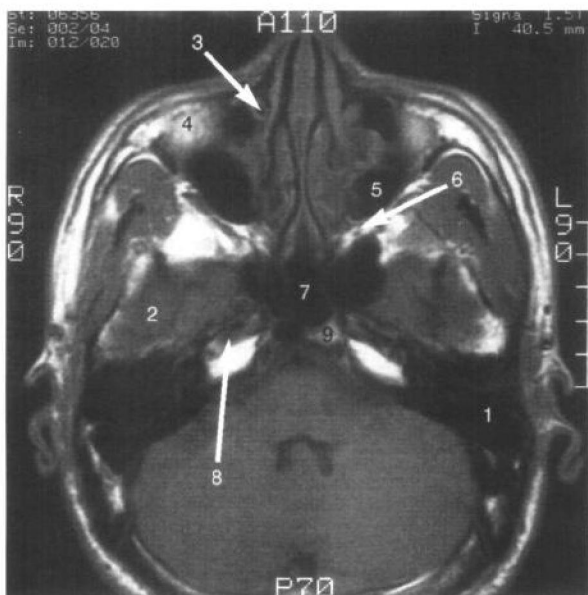
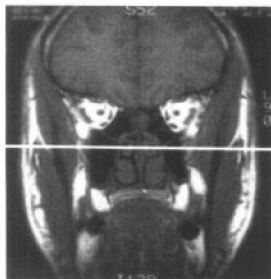


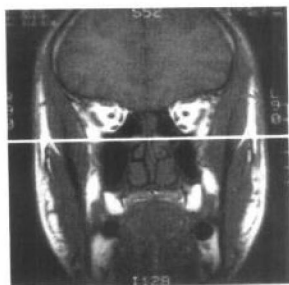


- | | |
|-------------------------------------|-----------|
| 1. zygomatic arch | 1. 颧弓 |
| 2. nasal septum | 2. 鼻中隔 |
| 3. maxillary sinus | 3. 上颌窦 |
| 4. maxillary artery branches | 4. 上颌动脉分支 |
| 5. sphenomaxillary fissure | 5. 蝶上颌裂 |
| 6. coronoid process of the mandible | 6. 下颌骨喙突 |
| 7. pterygopalatine fossa | 7. 翼腭窝 |
| 8. nasolacrimal duct | 8. 鼻泪管 |
| 9. clivus | 9. 枕骨斜坡 |

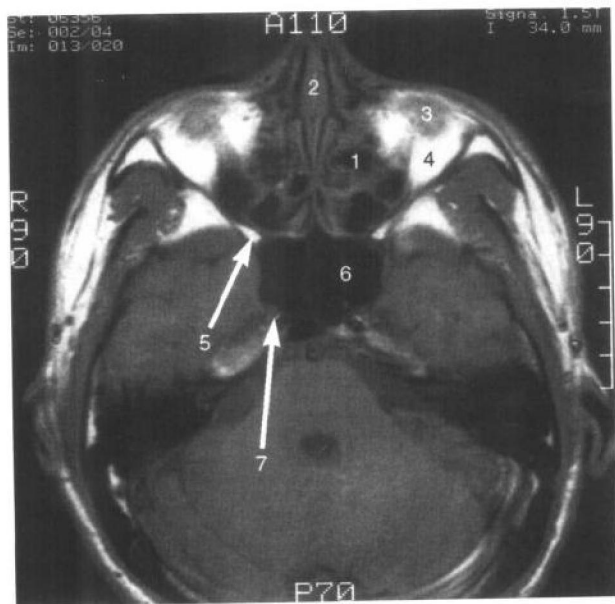


- | | |
|------------------------------|-----------|
| 1. temporal bone | 1. 颞骨 |
| 2. temporal lobe | 2. 颞叶 |
| 3. nasolacrimal duct | 3. 鼻泪管 |
| 4. orbital fat | 4. 眼眶脂肪 |
| 5. maxillary sinus | 5. 上颌窦 |
| 6. maxillary artery branches | 6. 上颌动脉分支 |
| 7. sphenoid sinus | 7. 蝶窦 |
| 8. internal carotid artery | 8. 颈内动脉 |
| 9. clivus | 9. 枕骨斜坡 |

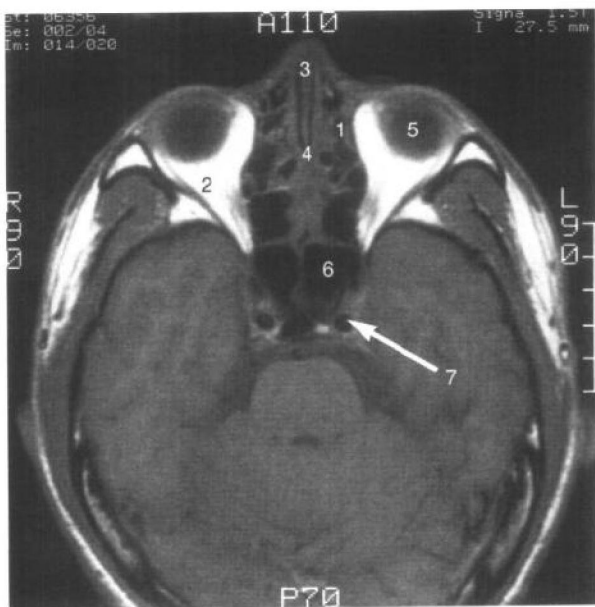


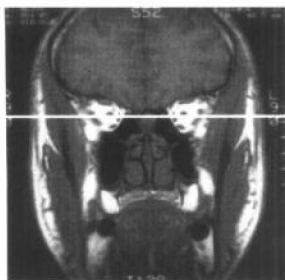


- | | |
|-----------------------------|---------|
| 1. ethmoid sinuses | 1. 筛窦 |
| 2. nasal septum | 2. 鼻中隔 |
| 3. globe | 3. 眼球 |
| 4. orbital fat | 4. 眼眶脂肪 |
| 5. inferior orbital fissure | 5. 眶下裂 |
| 6. sphenoid sinus | 6. 蝶窦 |
| 7. carotid artery | 7. 颈动脉 |

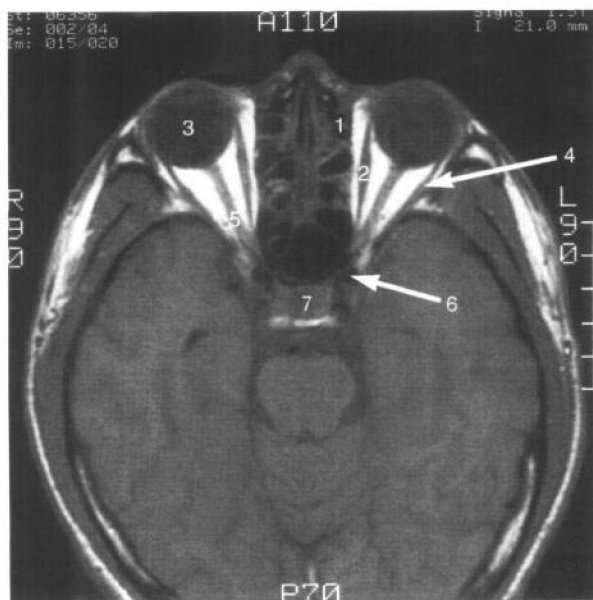


- | | |
|-----------------------------|------------|
| 1. ethmoid sinus | 1. 筛窦 |
| 2. orbital fat | 2. 眼眶脂肪 |
| 3. nasal septum | 3. 鼻中隔 |
| 4. nasal vault | 4. 鼻腔穹隆 |
| 5. globe | 5. 眼球 |
| 6. sphenoid sinus | 6. 蝶窦 |
| 7. cavernous carotid artery | 7. 海绵窦内颈动脉 |

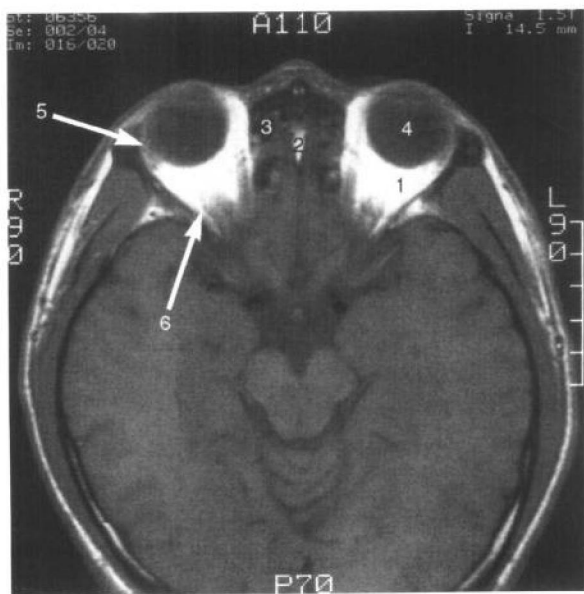




- | | |
|--------------------------|---------|
| 1. ethmoid sinus | 1. 筛窦 |
| 2. medial rectus muscle | 2. 眼内直肌 |
| 3. globe | 3. 眼球 |
| 4. lateral rectus muscle | 4. 眼外直肌 |
| 5. optic nerve | 5. 视神经 |
| 6. carotid artery | 6. 颈动脉 |
| 7. pituitary fossa | 7. 脑垂体窝 |

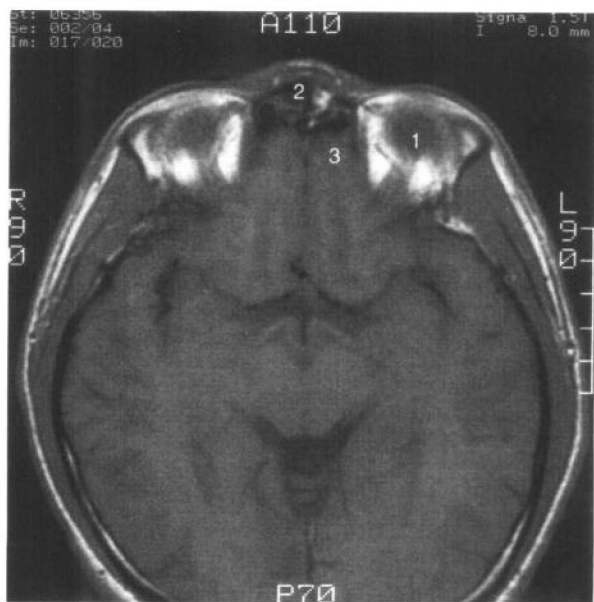


- | | |
|--------------------------|---------|
| 1. orbital fat | 1. 眼眶脂肪 |
| 2. crista galli | 2. 鸡冠 |
| 3. ethmoid sinus | 3. 筛窦 |
| 4. globe | 4. 眼球 |
| 5. lacrimal gland | 5. 泪腺 |
| 6. superior orbital vein | 6. 眼上静脉 |

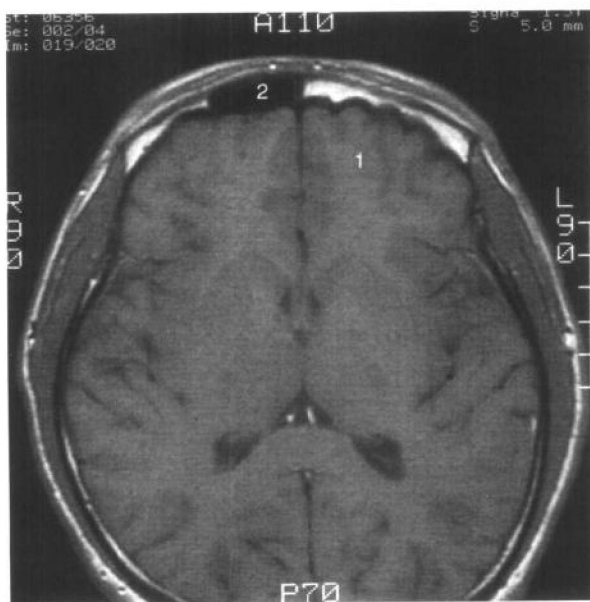
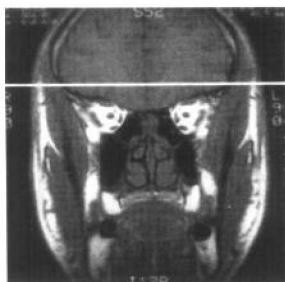


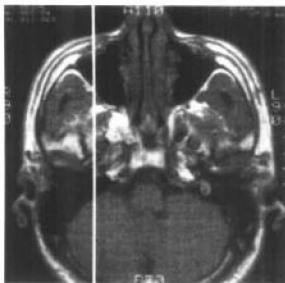


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|------------------|-------|
| 1. orbital roof | 1. 眶顶 |
| 2. frontal sinus | 2. 额窦 |
| 3. frontal lobe | 3. 额叶 |

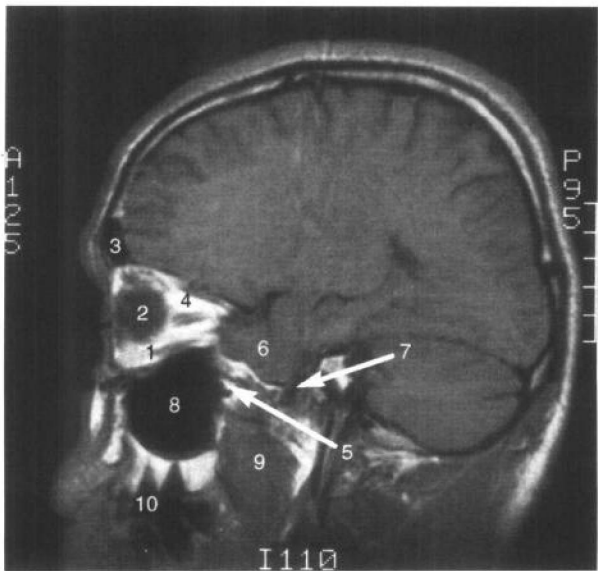


- | | |
|------------------|-------|
| 1. frontal lobe | 1. 额叶 |
| 2. frontal sinus | 2. 额窦 |



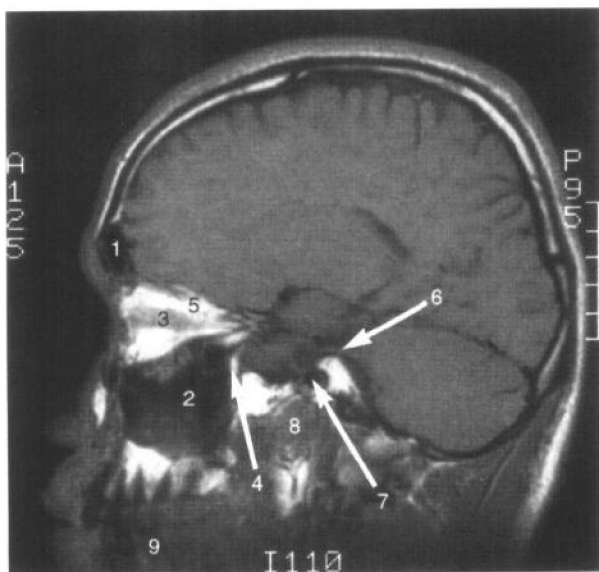
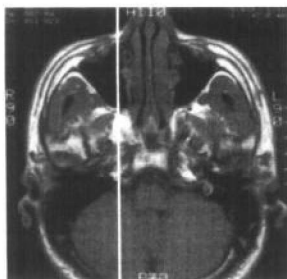


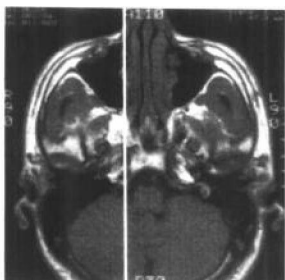
- | | |
|----------------------------|---------|
| 1. inferior rectus | 1. 眼下直肌 |
| 2. globe | 2. 眼球 |
| 3. frontal sinus | 3. 额窦 |
| 4. superior rectus | 4. 眼上直肌 |
| 5. pterygopalatine fossa | 5. 翼腭窝 |
| 6. temporal lobe | 6. 颞叶 |
| 7. foramen ovale | 7. 卵圆孔 |
| 8. maxillary sinus | 8. 上颌窦 |
| 9. medial pterygoid muscle | 9. 翼内肌 |
| 10. teeth | 10. 牙 |



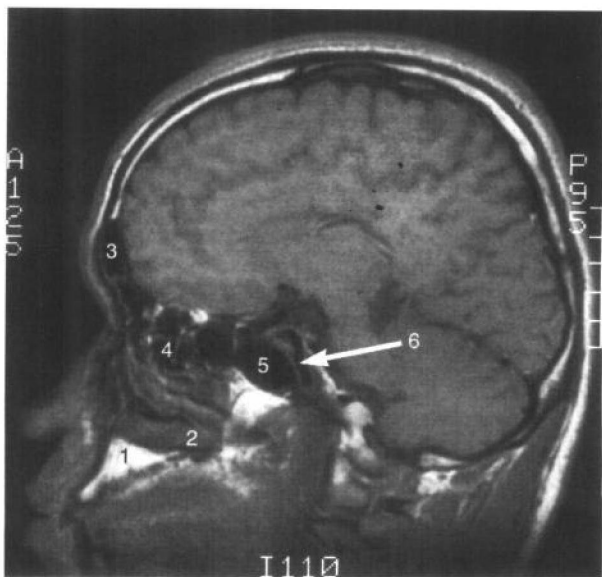
1. frontal sinus
2. maxillary sinus
3. medial rectus
4. pterygopalatine fossa
5. orbital fat
6. trigeminal nerve
7. internal carotid artery
8. lateral pterygoid muscle
9. teeth

1. 额窦
2. 上颌窦
3. 眼内直肌
4. 翼腭窝
5. 眼眶脂肪
6. 三叉神经
7. 颈内动脉
8. 翼外肌
9. 牙

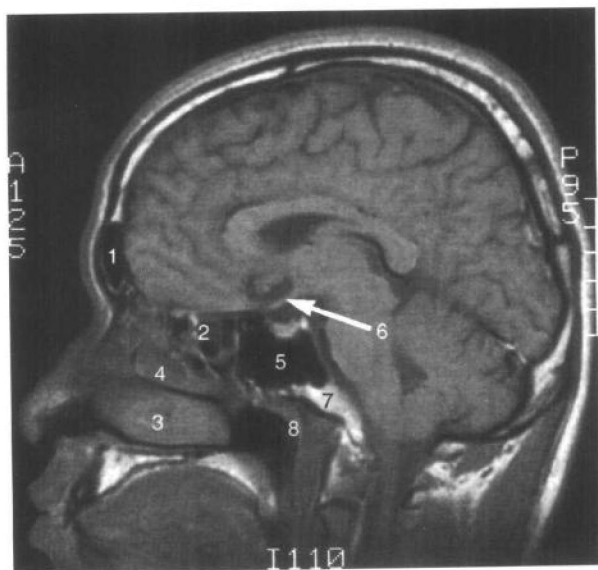
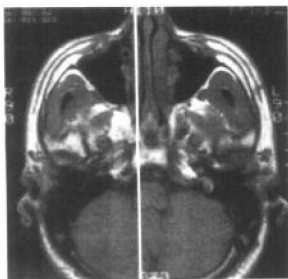


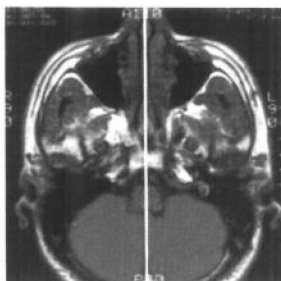


- | | |
|-----------------------|--------|
| 1. hard palate | 1. 硬腭 |
| 2. inferior turbinate | 2. 下鼻甲 |
| 3. frontal sinus | 3. 额窦 |
| 4. ethmoid sinus | 4. 筛窦 |
| 5. sphenoid sinus | 5. 蝶窦 |
| 6. carotid artery | 6. 颈动脉 |

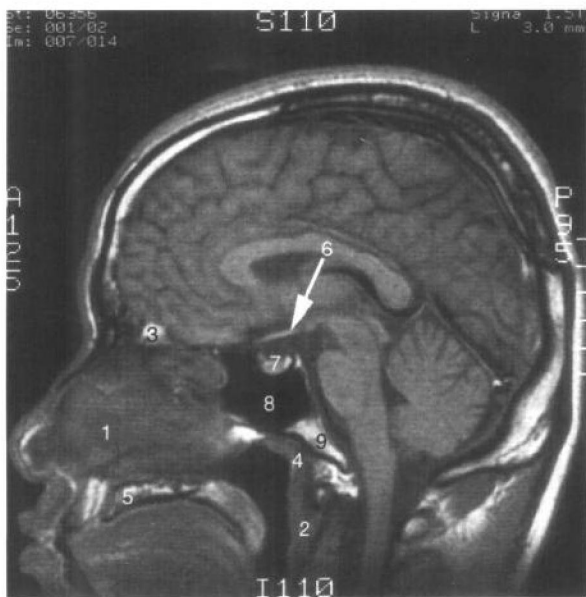


- | | |
|-----------------------|---------|
| 1. frontal sinus | 1. 额窦 |
| 2. ethmoid sinuses | 2. 筛窦 |
| 3. inferior turbinate | 3. 下鼻甲 |
| 4. middle turbinate | 4. 中鼻甲 |
| 5. sphenoid sinus | 5. 蝶窦 |
| 6. optic chiasm | 6. 视交叉 |
| 7. clivus | 7. 枕骨斜坡 |
| 8. nasopharynx | 8. 鼻咽 |

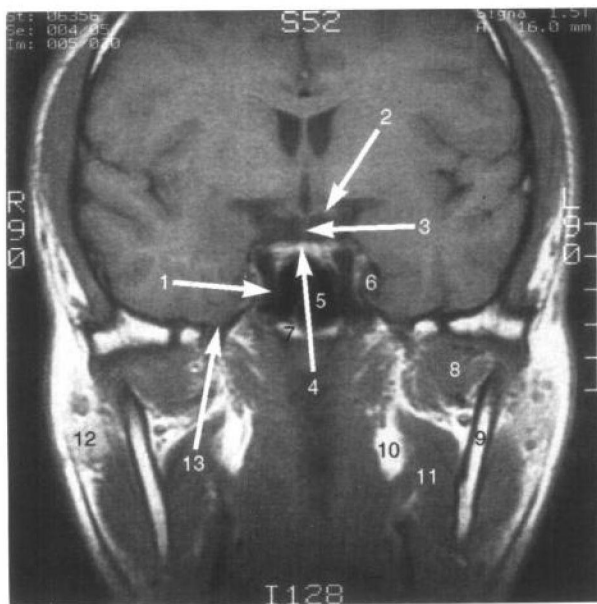
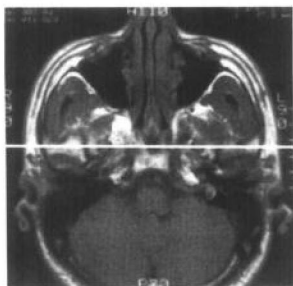


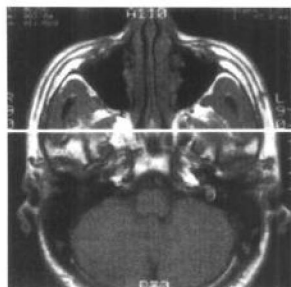


- | | |
|--------------------|---------|
| 1. nasal septum | 1. 鼻中隔 |
| 2. oropharynx | 2. 口咽 |
| 3. crista galli | 3. 鸡冠 |
| 4. nasopharynx | 4. 鼻咽 |
| 5. hard palate | 5. 硬腭 |
| 6. optic chiasm | 6. 视交叉 |
| 7. pituitary gland | 7. 脑垂体 |
| 8. sphenoid sinus | 8. 蝶窦 |
| 9. clivus | 9. 枕骨斜坡 |

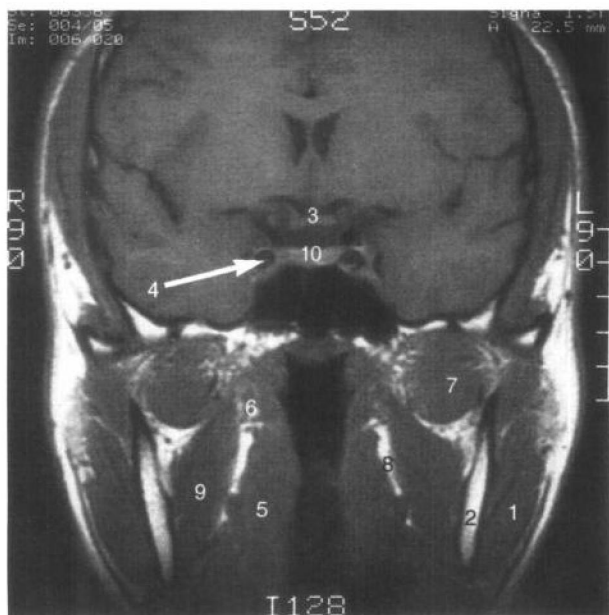


- | | |
|-----------------------------|--------------------|
| 1. carotid artery | 1. 颈动脉 |
| 2. optic tract | 2. 视束 |
| 3. infundibulum | 3. 漏斗(下丘脑) |
| 4. pituitary gland | 4. 脑垂体 |
| 5. sphenoid sinus | 5. 蝶窦 |
| 6. Meckel's cave | 6. Meckel 腔(三叉神经腔) |
| 7. clivus | 7. 枕骨斜坡 |
| 8. lateral pterygoid muscle | 8. 翼外肌 |
| 9. mandible | 9. 下颌骨 |
| 10. parapharyngeal space | 10. 咽旁间隙 |
| 11. medial pterygoid muscle | 11. 翼内肌 |
| 12. parotid gland | 12. 腮腺 |
| 13. foramen ovale | 13. 卵圆孔 |

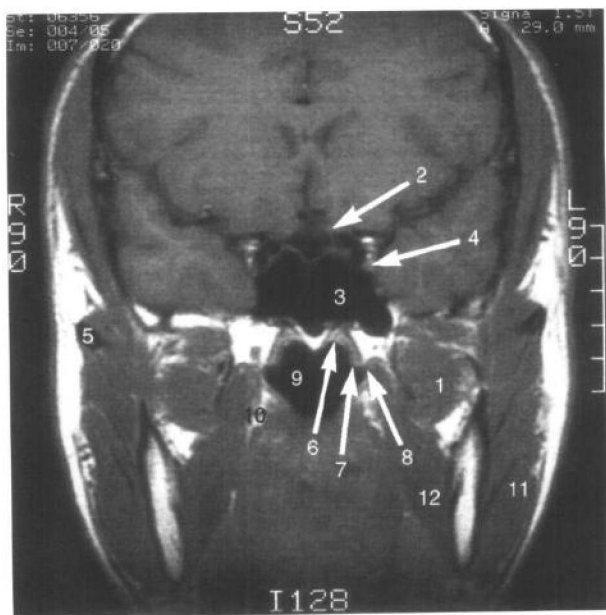
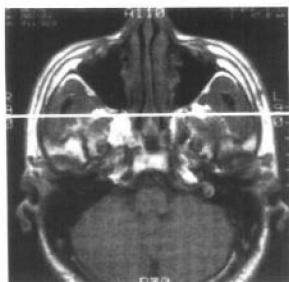


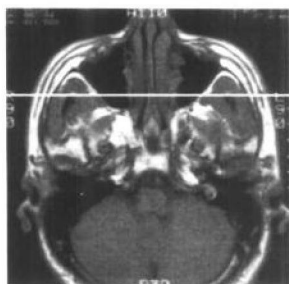


- | | |
|-----------------------------|---------|
| 1. masseter muscle | 1. 咬肌 |
| 2. mandible | 2. 下颌骨 |
| 3. optic chiasm | 3. 视交叉 |
| 4. carotid artery | 4. 颈动脉 |
| 5. pharynx | 5. 咽 |
| 6. levator palatini muscle | 6. 腭提肌 |
| 7. lateral pterygoid muscle | 7. 翼外肌 |
| 8. parapharyngeal space | 8. 咽旁间隙 |
| 9. medial pterygoid muscle | 9. 翼内肌 |
| 10. pituitary gland | 10. 脑垂体 |

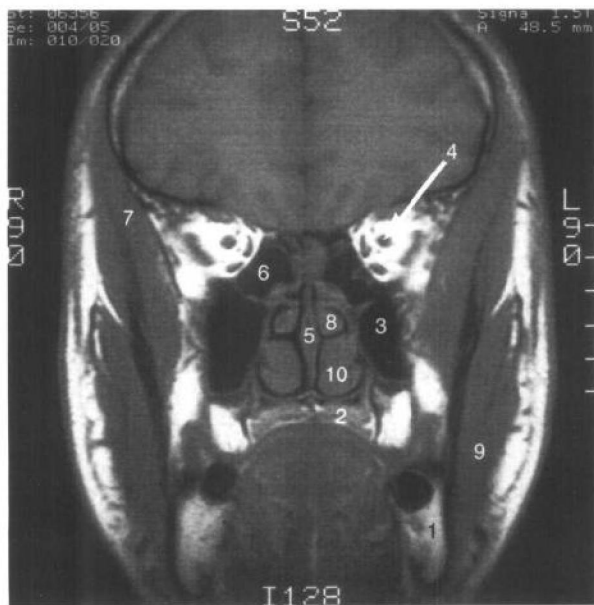


- | | |
|-----------------------------|----------|
| 1. lateral pterygoid muscle | 1. 翼外肌 |
| 2. optic nerve | 2. 视神经 |
| 3. sphenoid sinus | 3. 蝶窦 |
| 4. inferior orbital fissure | 4. 眶下裂 |
| 5. zygomatic arch | 5. 颧弓 |
| 6. fossa of Rosenmueller | 6. 咽隐窝 |
| 7. torus tubarius | 7. 咽鼓管圆枕 |
| 8. eustachian tube | 8. 咽鼓管 |
| 9. nasopharynx | 9. 鼻咽 |
| 10. parapharyngeal space | 10. 咽旁间隙 |
| 11. masseter muscle | 11. 咬肌 |
| 12. medial pterygoid muscle | 12. 翼内肌 |

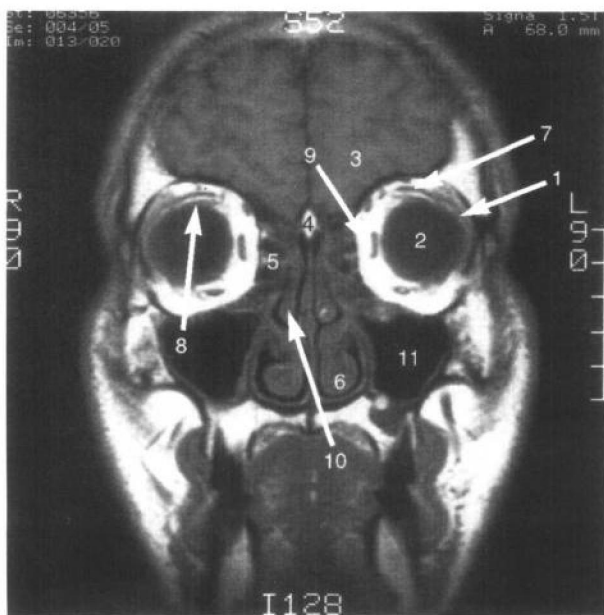
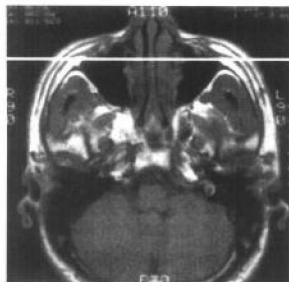


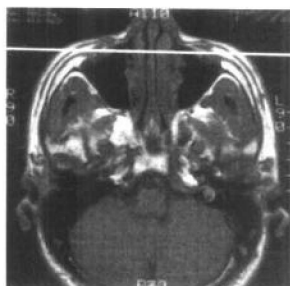


- | | |
|------------------------|---------|
| 1. mandible | 1. 下颌骨 |
| 2. hard palate | 2. 硬腭 |
| 3. maxillary sinus | 3. 上颌窦 |
| 4. optic nerve | 4. 视神经 |
| 5. nasal septum | 5. 鼻中隔 |
| 6. ethmoid sinus | 6. 筛窦 |
| 7. temporalis muscle | 7. 颞肌 |
| 8. middle turbinate | 8. 中鼻甲 |
| 9. masseter muscle | 9. 咬肌 |
| 10. inferior turbinate | 10. 下鼻甲 |

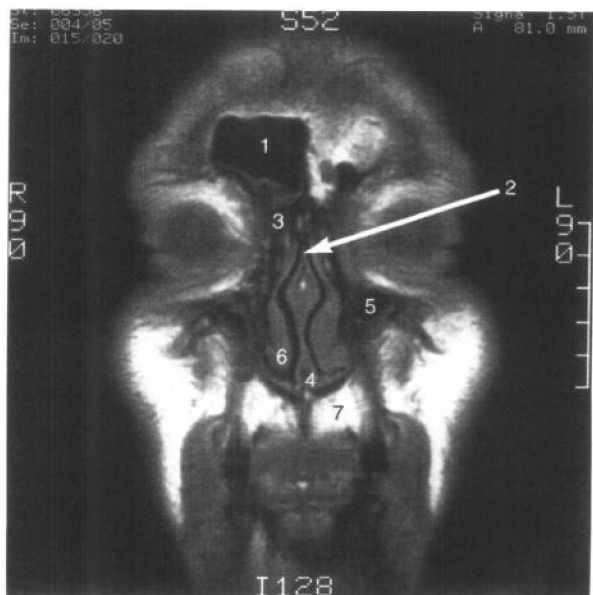


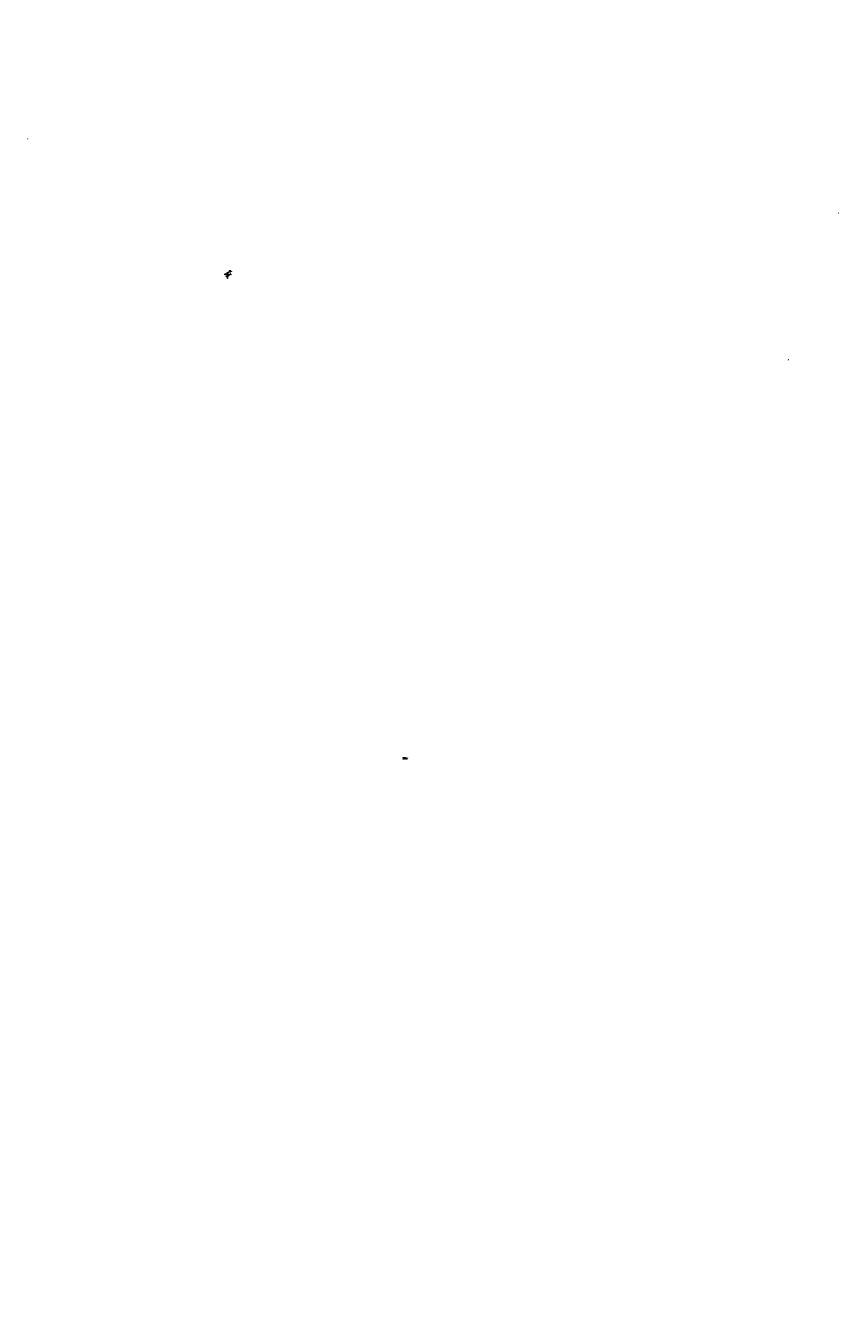
- | | |
|----------------------------|---------|
| 1. lacrimal gland | 1. 泪腺 |
| 2. globe | 2. 眼球 |
| 3. frontal lobe | 3. 额叶 |
| 4. crista galli | 4. 鸡冠 |
| 5. ethmoid sinus | 5. 筛窦 |
| 6. inferior turbinate | 6. 下鼻甲 |
| 7. superior oblique muscle | 7. 上斜肌 |
| 8. superior rectus muscle | 8. 上直肌 |
| 9. medial rectus muscle | 9. 内直肌 |
| 10. middle turbinate | 10. 中鼻甲 |
| 11. maxillary sinus | 11. 上颌窦 |





- | | |
|------------------------|--------|
| 1. frontal sinus | 1. 额窦 |
| 2. nasal vault | 2. 鼻顶 |
| 3. ethmoid sinus | 3. 筛窦 |
| 4. nasal septum | 4. 鼻中隔 |
| 5. maxillary sinus | 5. 上颌窦 |
| 6. inferior turbinates | 6. 下鼻甲 |
| 7. hard palate | 7. 硬腭 |



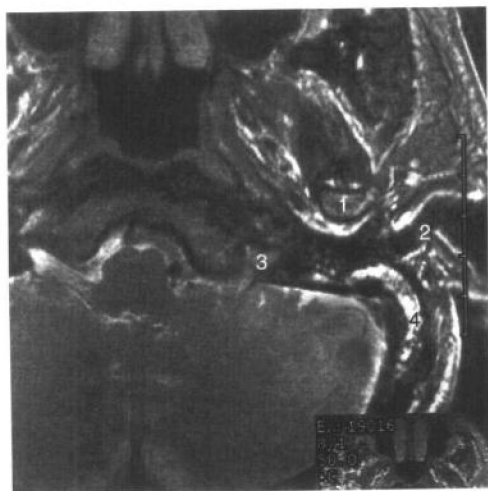
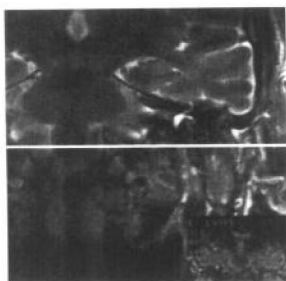


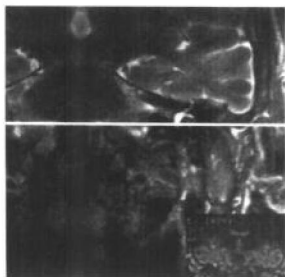
Temporal Bone

颞骨

1. mandibular condyle
2. external auditory canal
3. jugular foramen
4. mastoid air cells

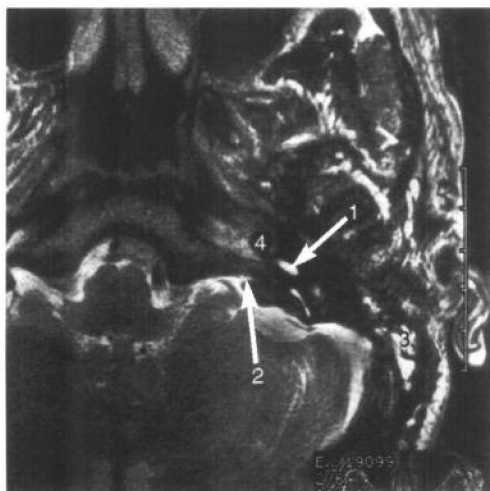
1. 下颌骨髁突
2. 外耳道
3. 颈静脉孔
4. 乳突气房



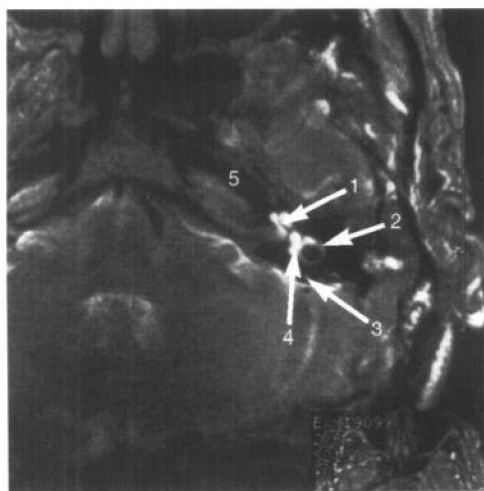
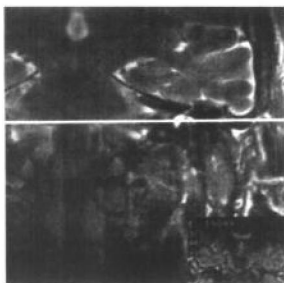


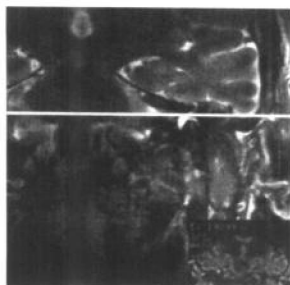
1. basal turn of cochlea
2. cochlea aqueduct
3. mastoid air cells
4. carotid artery

1. 巨蜗基底环
2. 巨蜗小管
3. 乳突气房
4. 颈动脉

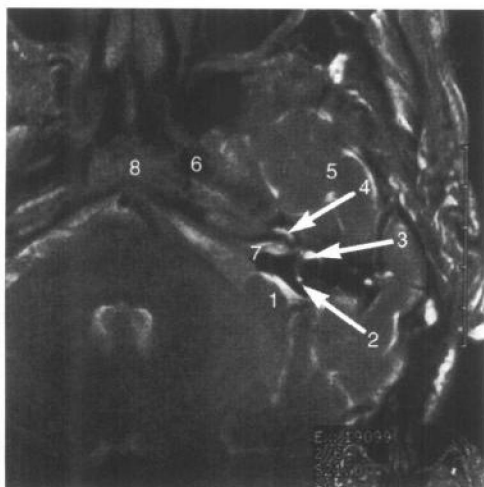


- | | |
|----------------------------------|----------|
| 1. cochlea | 1. 耳蜗 |
| 2. horizontal semicircular canal | 2. 水平半规管 |
| 3. posterior semicircular canal | 3. 后半规管 |
| 4. vestibule | 4. 前庭 |
| 5. carotid artery | 5. 颈动脉 |

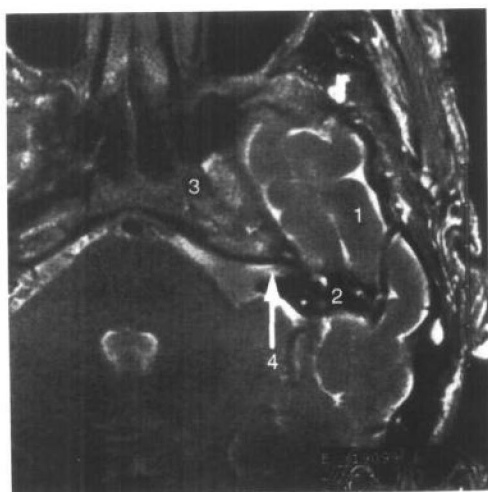
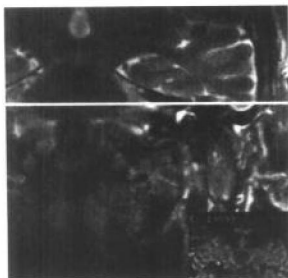


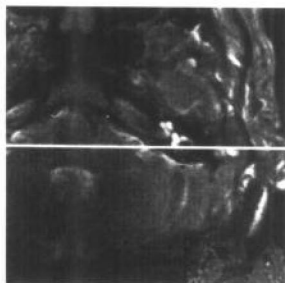


- | | |
|---------------------------------|----------|
| 1. flocculus of cerebellum | 1. 小脑绒球 |
| 2. posterior semicircular canal | 2. 后半规管 |
| 3. vestibule | 3. 前庭 |
| 4. cochlea | 4. 耳蜗 |
| 5. temporal lobe | 5. 颞叶 |
| 6. internal carotid canal | 6. 颈内动脉管 |
| 7. internal auditory canal | 7. 内耳道 |
| 8. clivus | 8. 枕骨斜坡 |



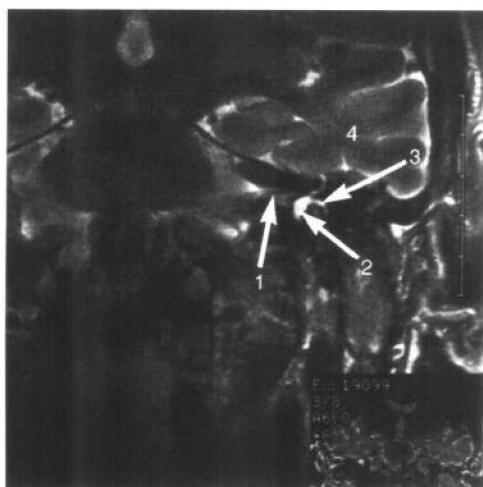
- | | |
|----------------------------|--------|
| 1. temporal lobe | 1. 颞叶 |
| 2. petrous ridge | 2. 岩骨嵴 |
| 3. carotid artery | 3. 颈动脉 |
| 4. internal auditory canal | 4. 内耳道 |



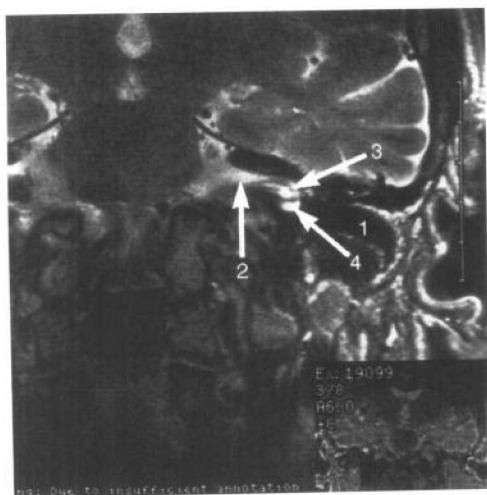
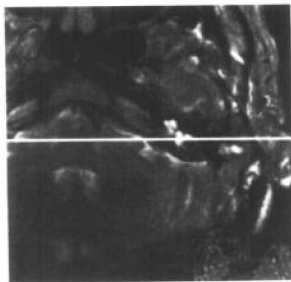


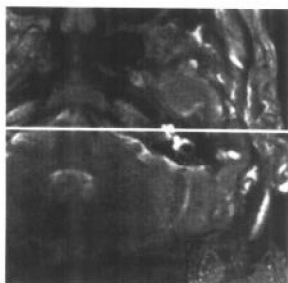
1. internal auditory canal
2. vestibule
3. horizontal semicircular canal
4. temporal lobe

1. 内耳道
2. 前庭
3. 水平半规管
4. 颞叶



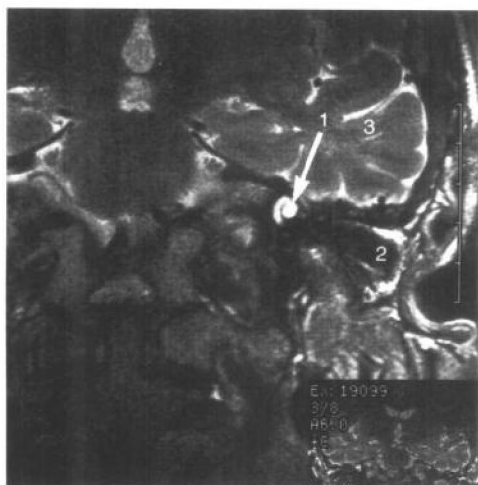
- | | |
|------------------------------|----------|
| 1. external auditory canal | 1. 外耳道 |
| 2. internal auditory canal | 2. 内耳道 |
| 3. vestibule | 3. 前庭 |
| 4. basal turn of the cochlea | 4. 耳蜗基底环 |



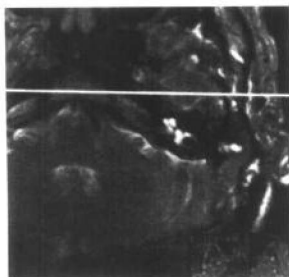


1. cochlea
2. external auditory canal
3. temporal lobe

1. 耳蜗
2. 外耳道
3. 颞叶



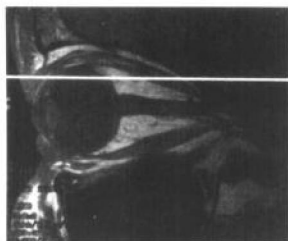
- | | |
|----------------------------|--------|
| 1. temporal lobe | 1. 颞叶 |
| 2. parotid gland | 2. 腮腺 |
| 3. carotid artery | 3. 颈动脉 |
| 4. external auditory canal | 4. 外耳道 |

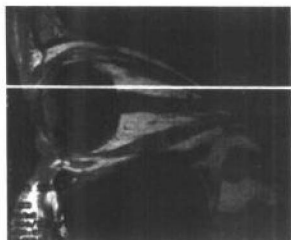


Orbit

眼眶

- | | |
|---|-------------|
| 1. lacrimal gland | 1. 泪腺 |
| 2. cochlea | 2. 耳蜗 |
| 3. superior oblique muscle | 3. 上斜肌 |
| 4. superior rectus and levator palpebrae superioris muscles | 4. 上直肌和上睑提肌 |
| 5. superior orbital vein | 5. 眼上静脉 |
| 6. crista galli | 6. 鸡冠 |





1. lacrimal gland

2. globe

3. orbital fat

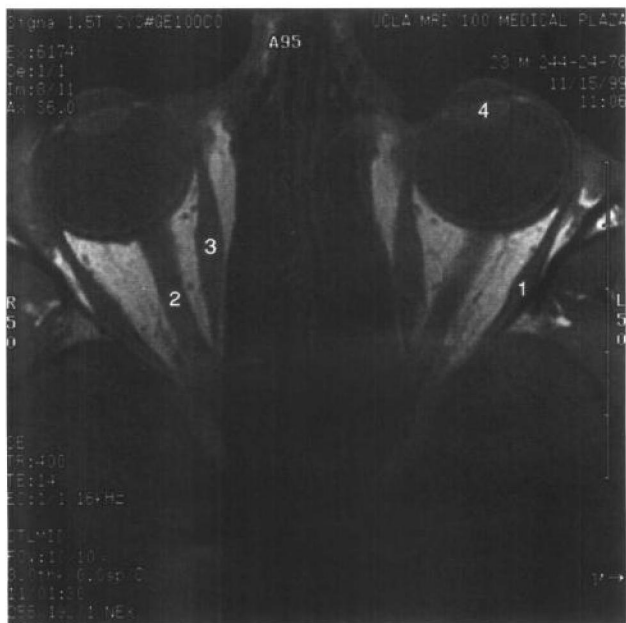
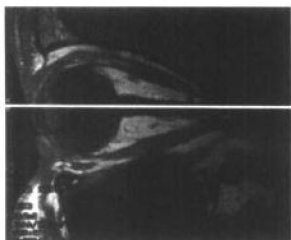
1. 泪腺

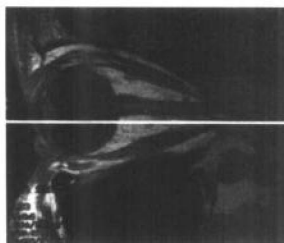
2. 眼球

3. 眼眶脂肪



- | | |
|--------------------------|--------|
| 1. lateral rectus muscle | 1. 外直肌 |
| 2. optic nerve | 2. 视神经 |
| 3. medial rectus muscle | 3. 内直肌 |
| 4. lens | 4. 晶状体 |





- | | |
|--------------------------|--------|
| 1. lateral rectus muscle | 1. 外直肌 |
| 2. medial rectus muscle | 2. 内直肌 |
| 3. anterior chamber | 3. 前房 |



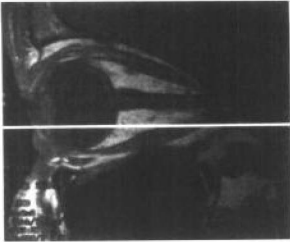
1. inferior rectus muscle

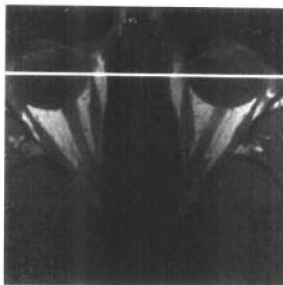
2. globe

3. nasolacrimal duct
1. 下直肌

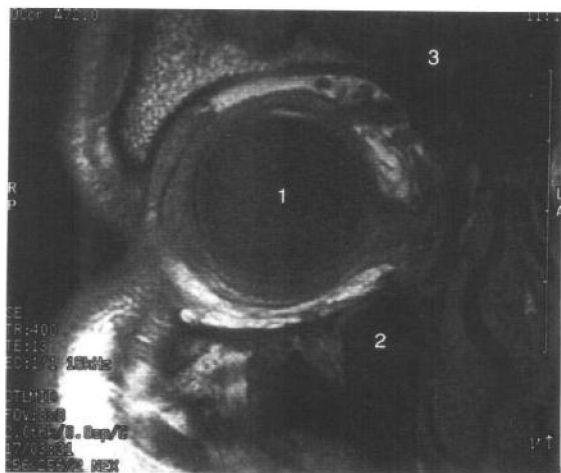
2. 眼球

3. 鼻泪管

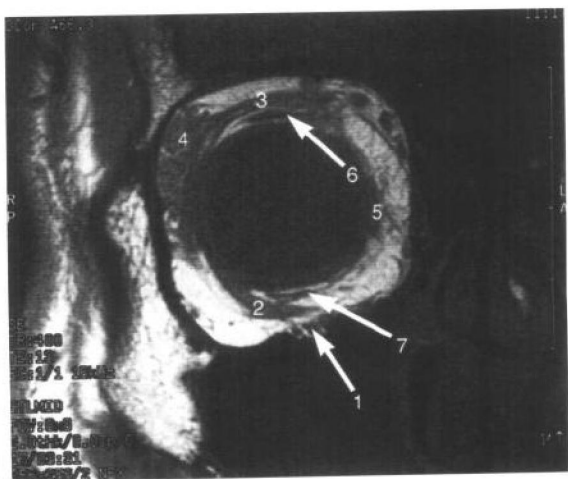
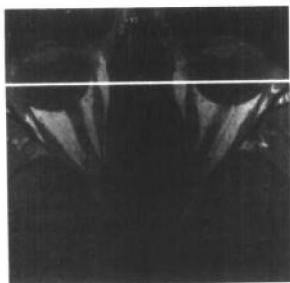


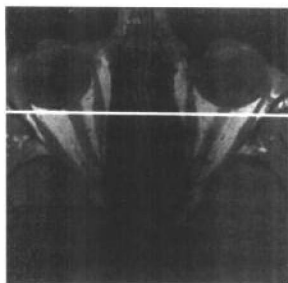


- | | |
|--------------------|--------|
| 1. globe | 1. 眼球 |
| 2. maxillary sinus | 2. 上颌窦 |
| 3. frontal sinus | 3. 额窦 |

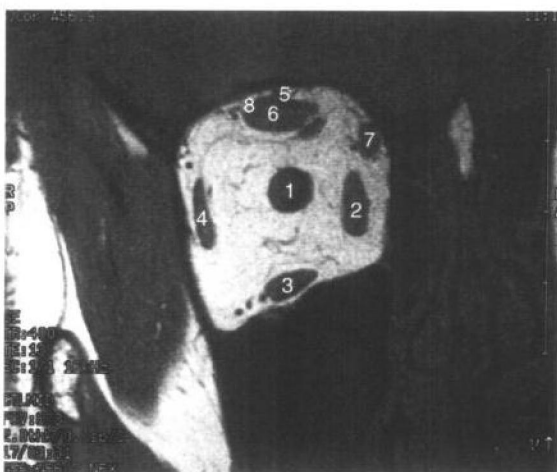


1. 眶下神经
2. 下斜肌
3. 上斜肌
4. 泪腺
5. 内直肌
6. 上直肌
7. 下直肌

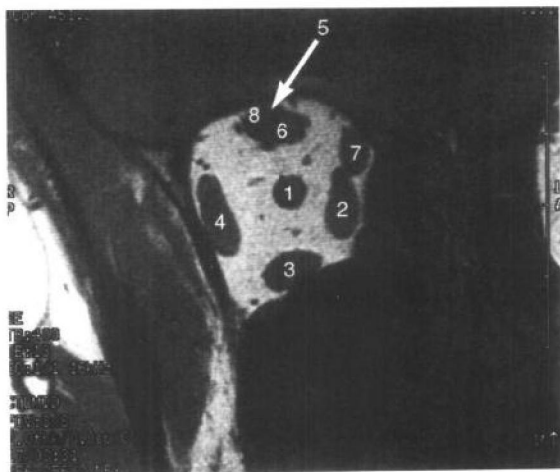
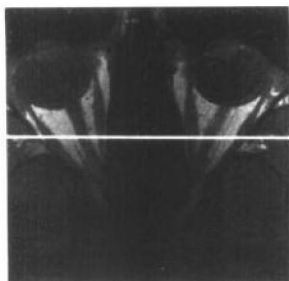




- | | |
|--|------------|
| 1. optic nerve | 1. 视神经 |
| 2. medial rectus muscle | 2. 内直肌 |
| 3. inferior rectus muscle | 3. 下直肌 |
| 4. lateral rectus muscle | 4. 外直肌 |
| 5. frontalis nerve (v1) | 5. 额神经(v1) |
| 6. superior rectus muscle | 6. 上直肌 |
| 7. superior oblique muscle | 7. 上斜肌 |
| 8. levator palpebrae superioris muscle | 8. 上睑提肌 |

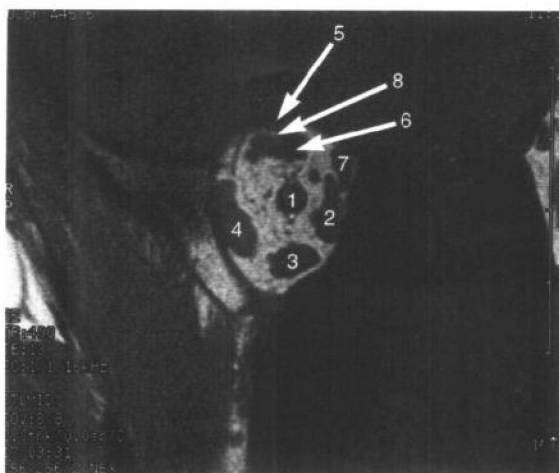


- | | |
|--|------------|
| 1. optic nerve | 1. 视神经 |
| 2. medial rectus muscle | 2. 内直肌 |
| 3. inferior rectus muscle | 3. 下直肌 |
| 4. lateral rectus muscle | 4. 外直肌 |
| 5. frontalis nerve (v1) | 5. 额神经(v1) |
| 6. superior rectus muscle | 6. 上直肌 |
| 7. superior oblique muscle | 7. 上斜肌 |
| 8. levator palpebrae superioris muscle | 8. 上睑提肌 |

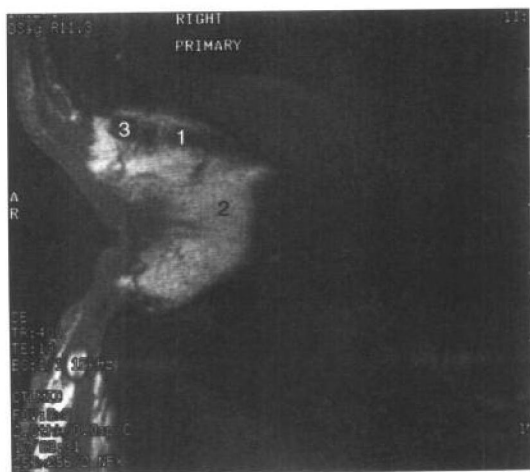
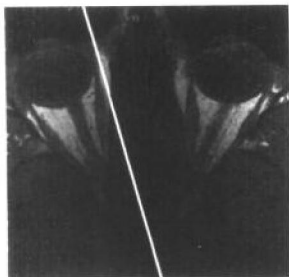




- | | |
|--|------------|
| 1. optic nerve | 1. 视神经 |
| 2. medial rectus muscle | 2. 内直肌 |
| 3. inferior rectus muscle | 3. 下直肌 |
| 4. lateral rectus muscle | 4. 外直肌 |
| 5. frontalis nerve (v1) | 5. 额神经(v1) |
| 6. superior rectus muscle | 6. 上直肌 |
| 7. superior oblique muscle | 7. 上斜肌 |
| 8. levator palpebrae superioris muscle | 8. 上睑提肌 |

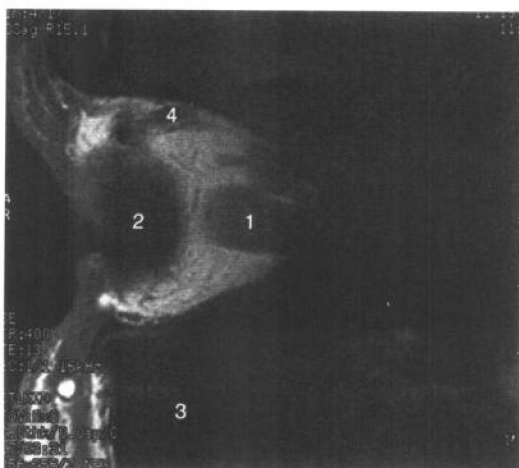


- | | |
|----------------------------|-----------|
| 1. superior oblique muscle | 1. 上斜肌 |
| 2. orbital fat | 2. 眼眶脂肪 |
| 3. trochlea | 3. 眼上斜肌滑车 |



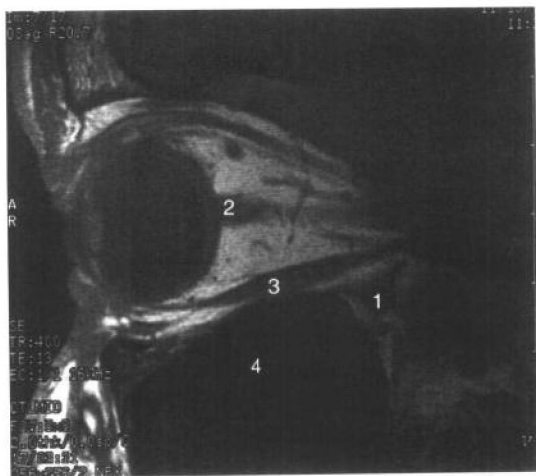
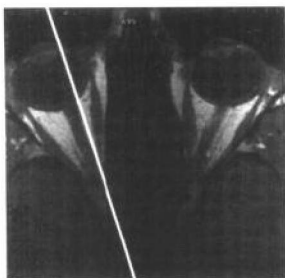


- | | |
|----------------------------|--------|
| 1. medial rectus muscle | 1. 内直肌 |
| 2. globe | 2. 眼球 |
| 3. maxillary sinus | 3. 上颌窦 |
| 4. superior oblique muscle | 4. 上斜肌 |



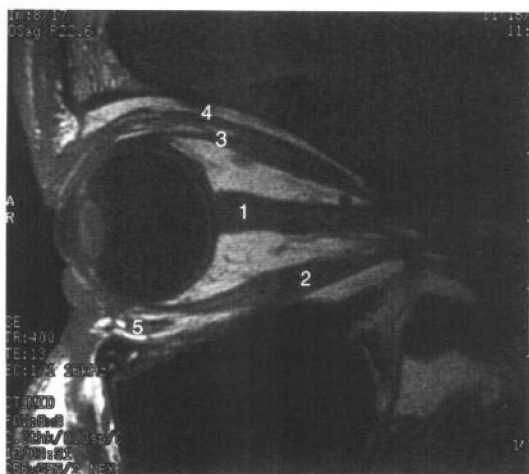
- | | |
|---------------------------|--------|
| 1. pterygopalatine fossa | 1. 翼腭窝 |
| 2. optic nerve | 2. 视神经 |
| 3. inferior rectus muscle | 3. 下直肌 |
| 4. maxillary sinus | 4. 上颌窦 |

1. 翼腭窝
2. 视神经
3. 下直肌
4. 上颌窦

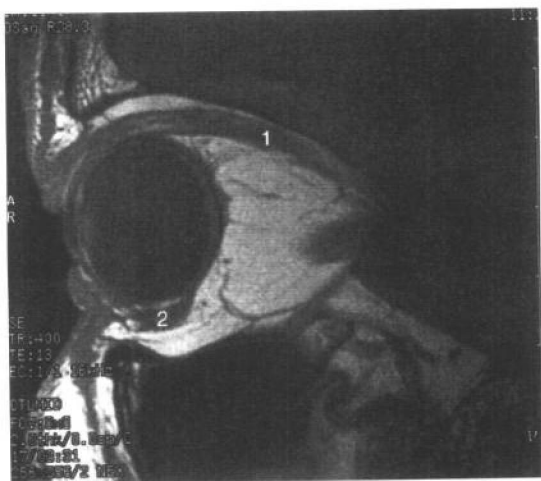
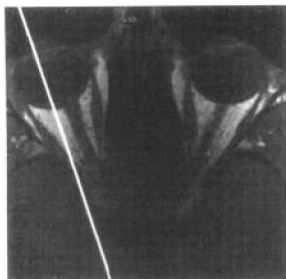




- | | |
|--|---------|
| 1. optic nerve | 1. 视神经 |
| 2. inferior rectus muscle | 2. 下直肌 |
| 3. superior rectus muscle | 3. 上直肌 |
| 4. levator palpebrae superioris muscle | 4. 上睑提肌 |
| 5. inferior oblique muscle | 5. 下斜肌 |



- | | |
|----------------------------|--------|
| 1. superior rectus muscle | 1. 上直肌 |
| 2. inferior oblique muscle | 2. 下斜肌 |

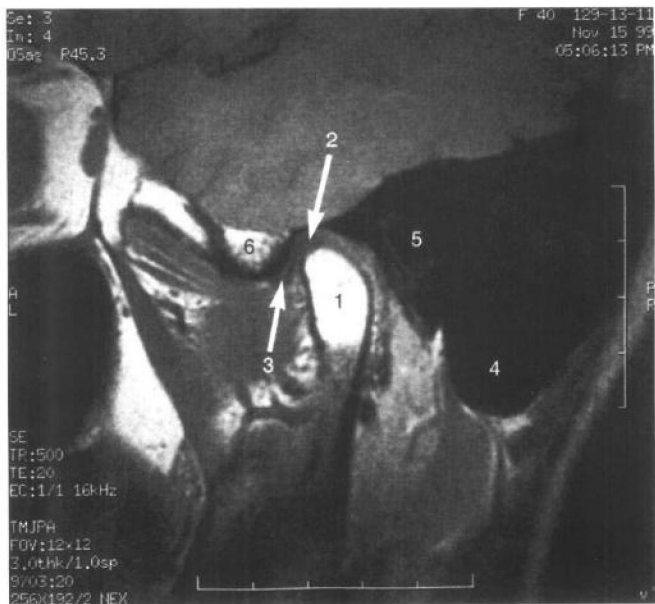
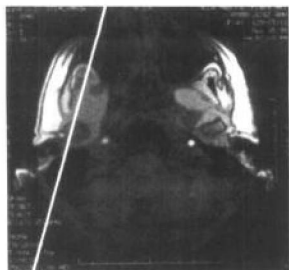


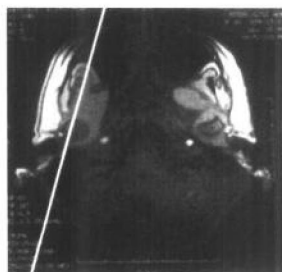
Temporomandibular Joint

颞颌关节

1. condyle
2. posterior band of disc
3. anterior band of disc
4. mastoid air cells
5. external auditory canal
6. articular tubercle

1. 下颌髁
2. 关节盘后带
3. 关节盘前带
4. 乳突气房
5. 外耳道
6. 关节结节





- | | |
|----------------------------|----------|
| 1. condyle | 1. 下颌髁 |
| 2. posterior band of disc | 2. 关节盘后带 |
| 3. anterior band of disc | 3. 关节盘前带 |
| 4. mastoid air cells | 4. 乳突气房 |
| 5. external auditory canal | 5. 外耳道 |
| 6. articular tubercle | 6. 关节结节 |



[illegible]

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