

颅脑肿瘤诊断与鉴别诊断要点

川北医学院附属医院

翟昭华教授

*胶质细胞瘤 Glioma

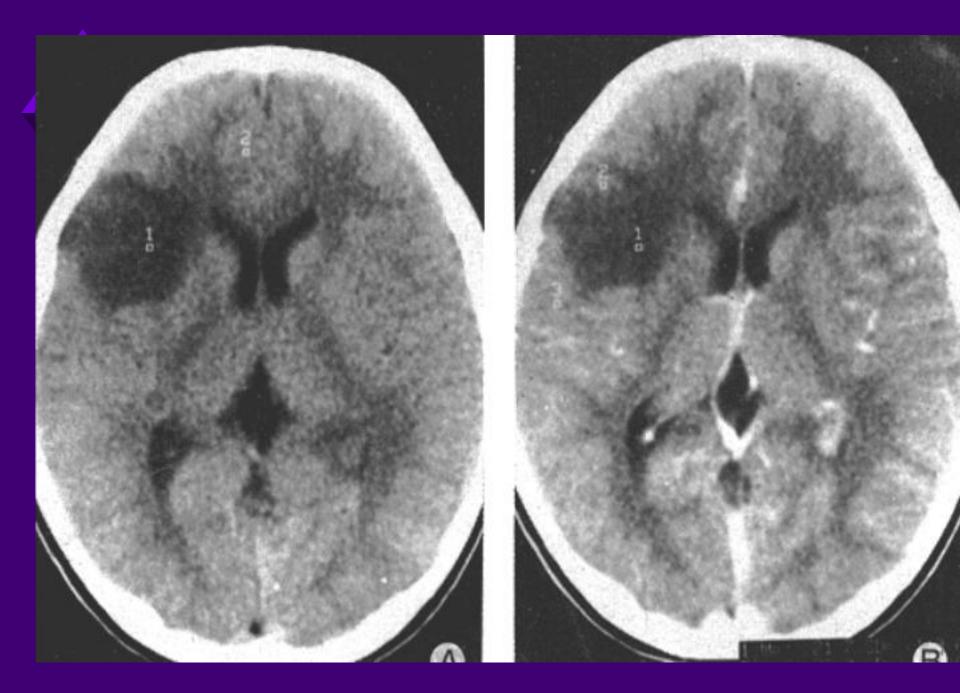
- (1)、癫痫, 脑受损的定位征象;
- (2)、I、II级星形细胞瘤CT显示以低密度为主, 边缘清楚或部分清楚,坏死囊变少,占位征象轻微, 水肿无或轻微,钙化较常见,增强无强化或边缘轻度 强化;
- (3)、III、IV级星形胶质细胞瘤CT上则以等低高混杂密度灶为多见,囊变坏死多,占位效应重,形态不规则,边界不清楚,水肿明显,少有钙化,增强厚强化明显,强化形式多样,可呈花环状、花边状、斑片状,环壁厚薄不均,壁结节是较具特征性的表现。

星形胶质细胞瘤astrocytoma

- (4)、小脑星形细胞瘤多位于小脑半球,肿瘤实质部分强化明显,易出现阻塞性脑积水;
- (5)、脑干星形细胞瘤多呈混杂密度灶,脑干增粗,水肿较轻微;

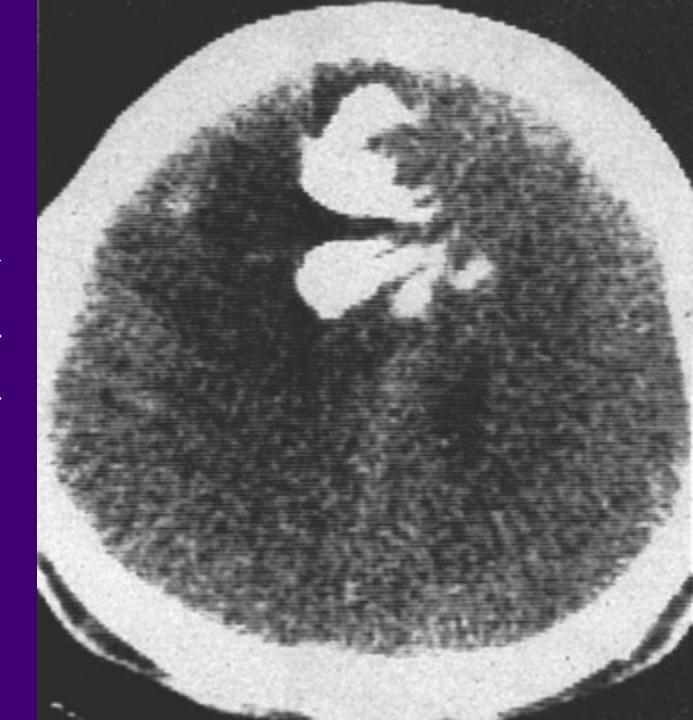


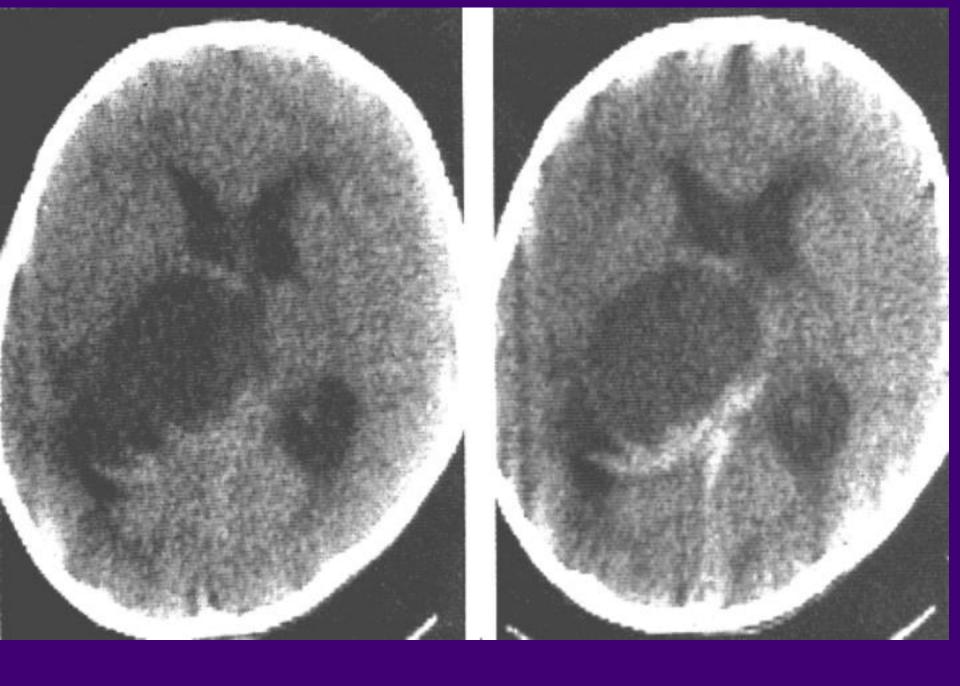
(6)、星形胶质瘤在 MRI上多旱长T1长T2 异常信号改变, 其它 表现与CT相似。

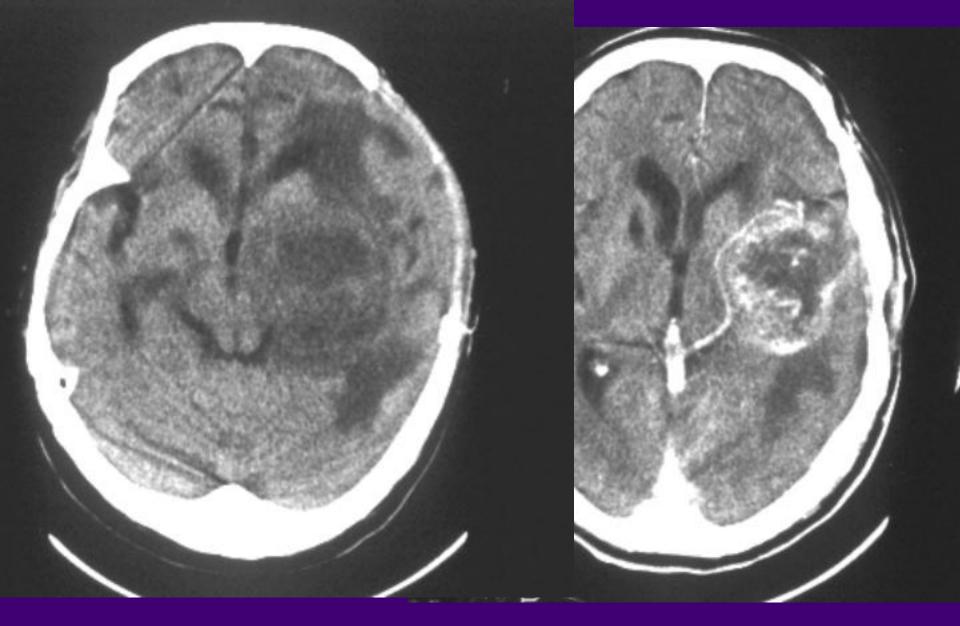




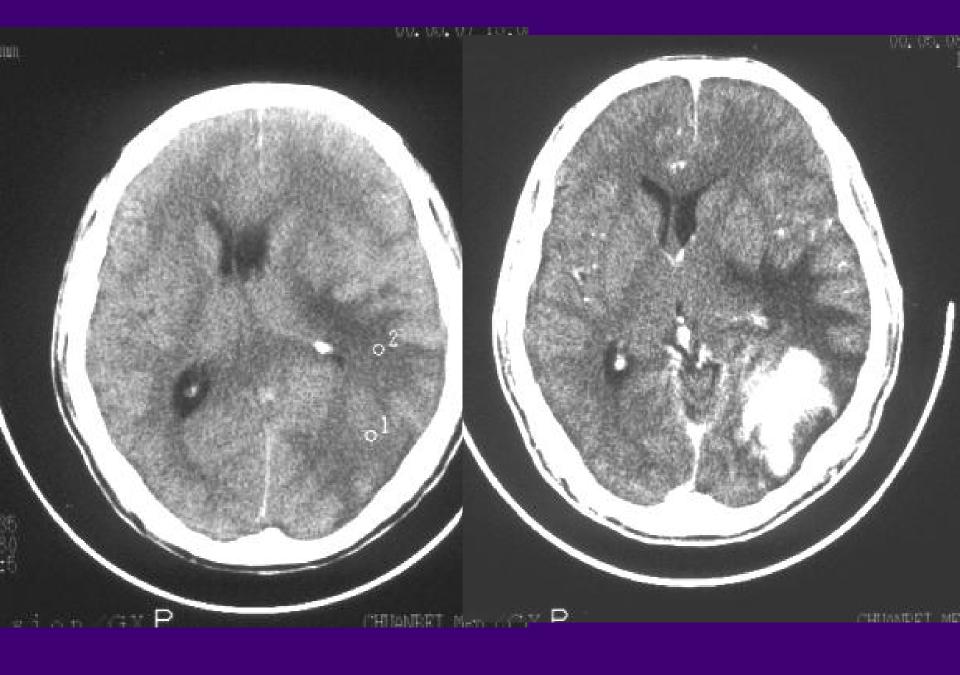
I级星形 胶质细胞 瘤的钙化

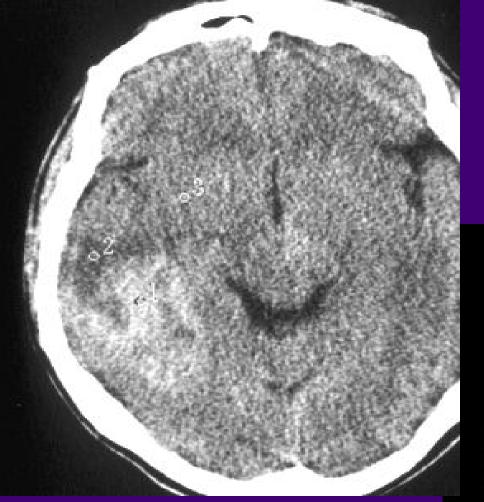




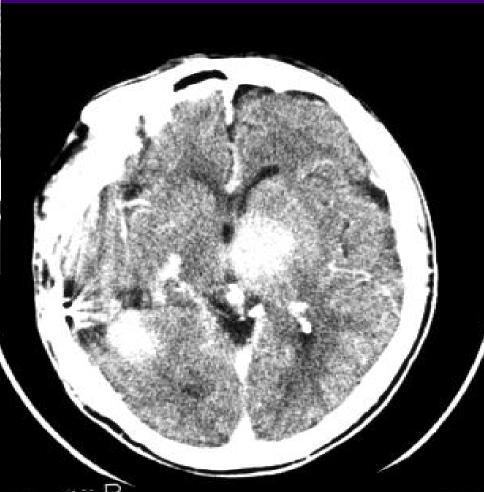


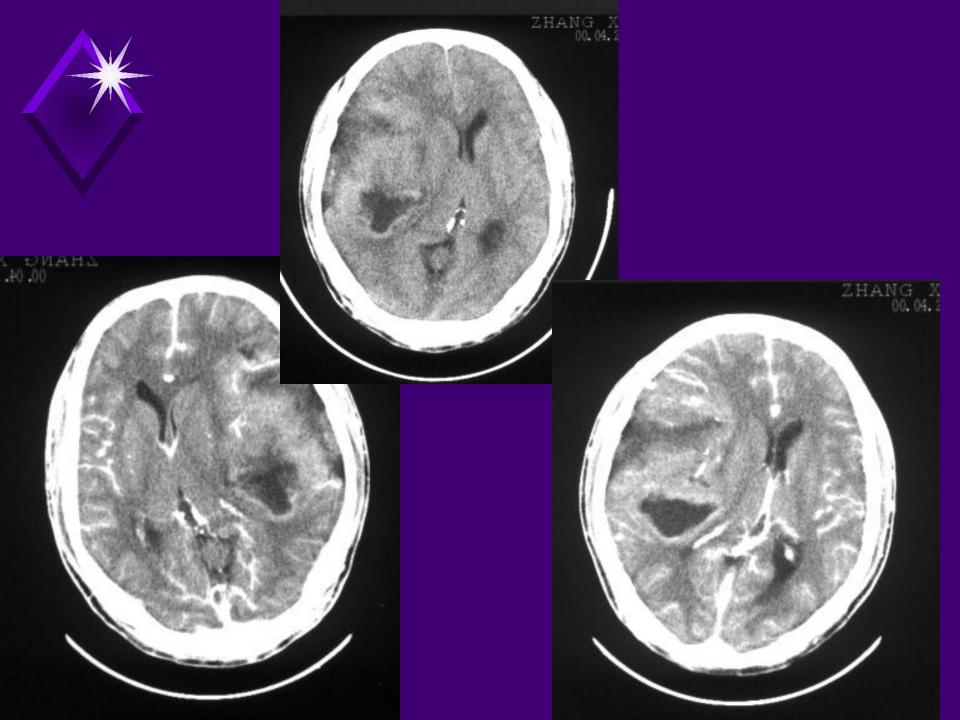
胶质瘤复发





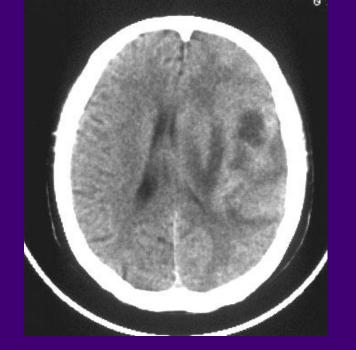
胶质瘤复发



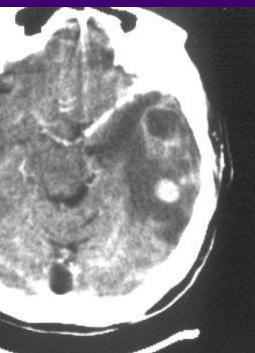




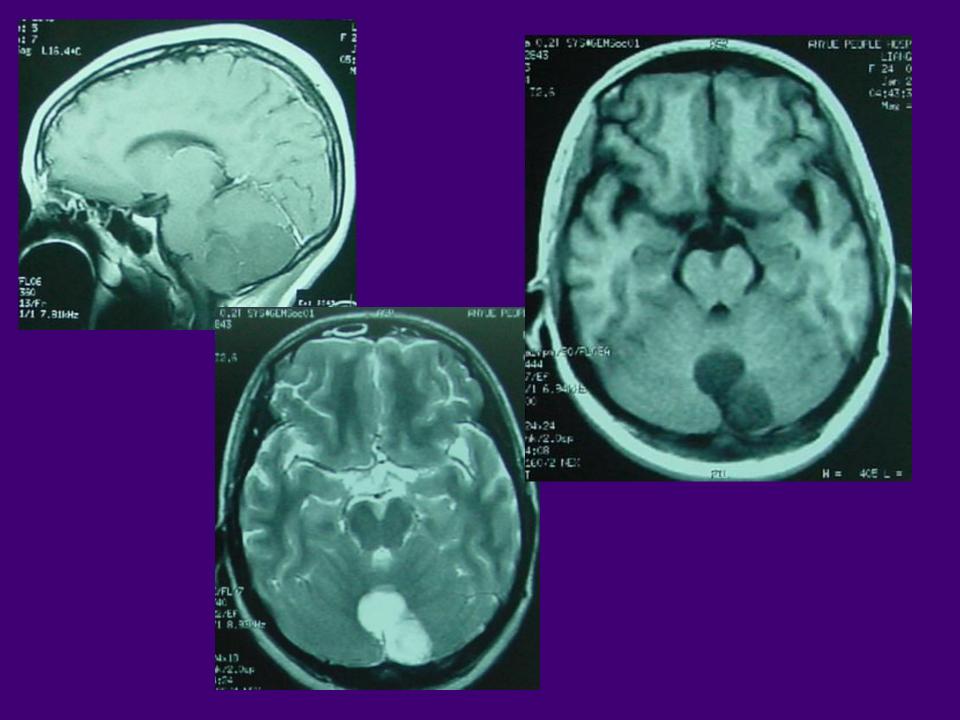
胶质母细胞瘤



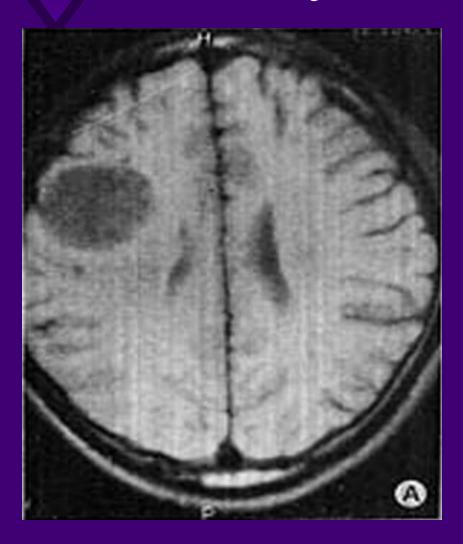


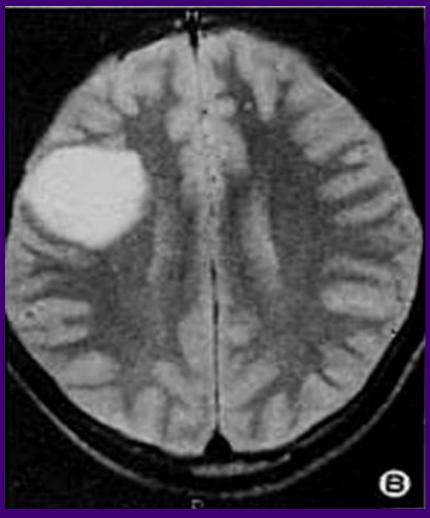


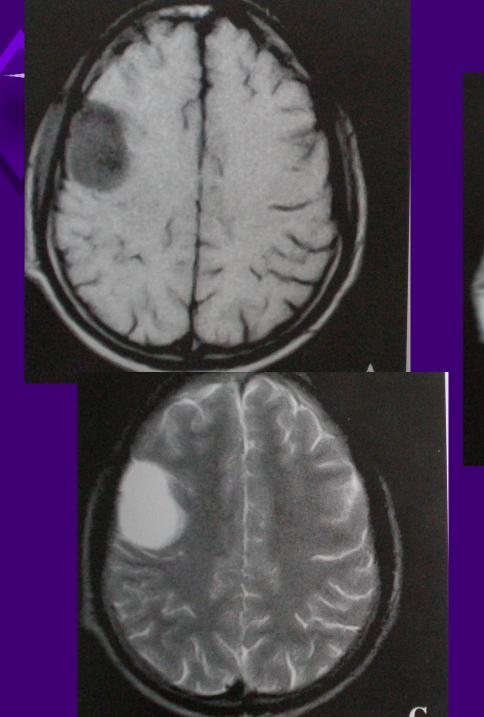


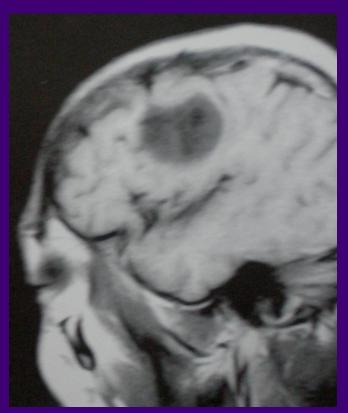


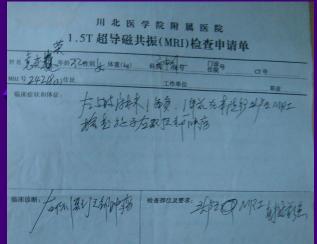
Astrocytoma-MRI findings

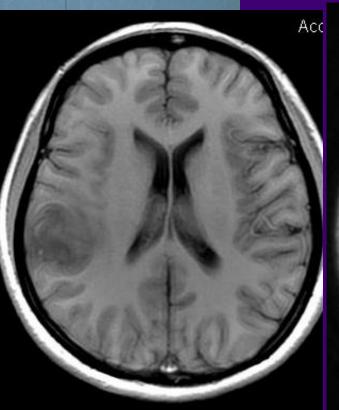


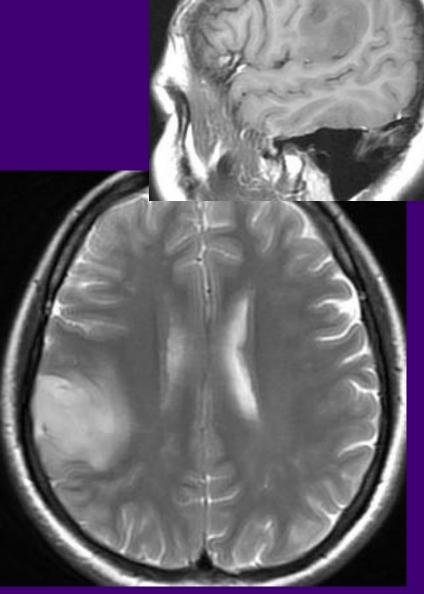




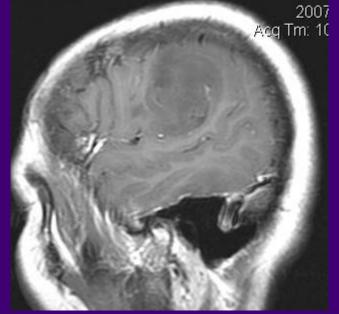


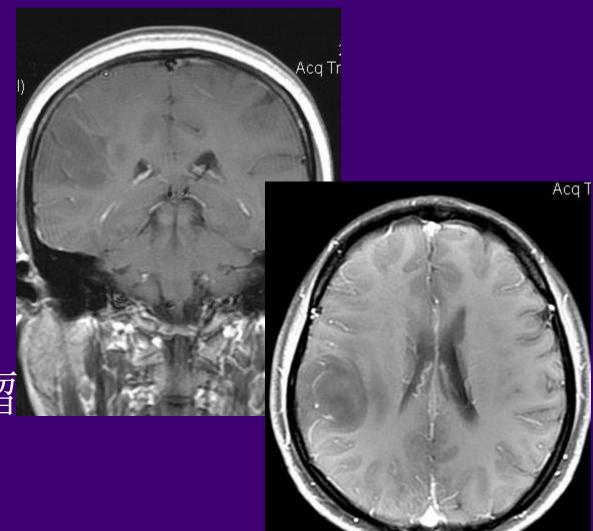




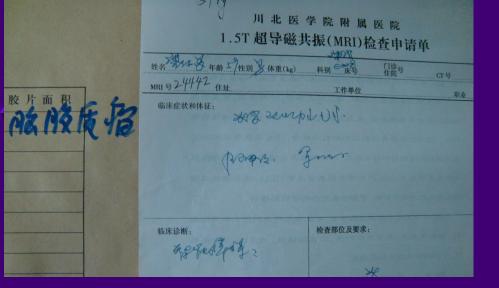


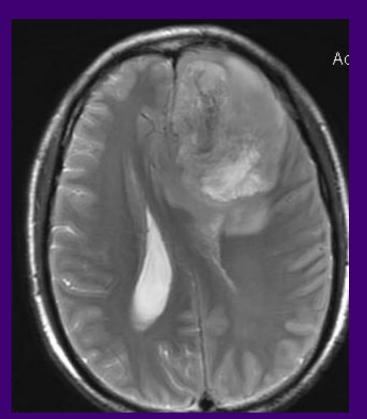
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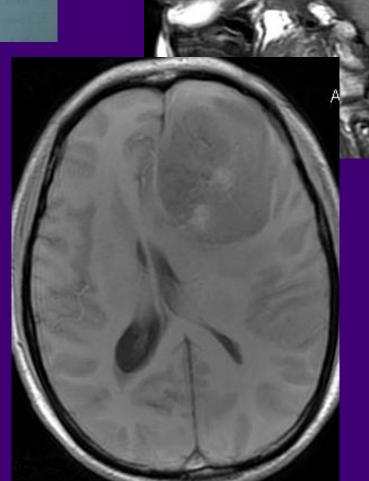




II级胶质瘤

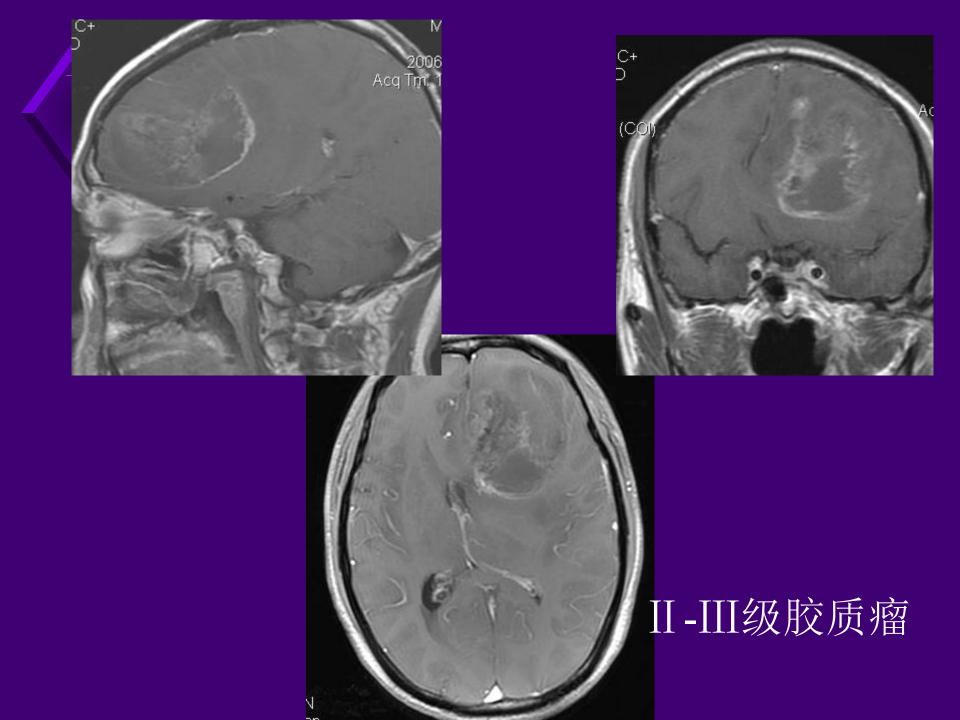


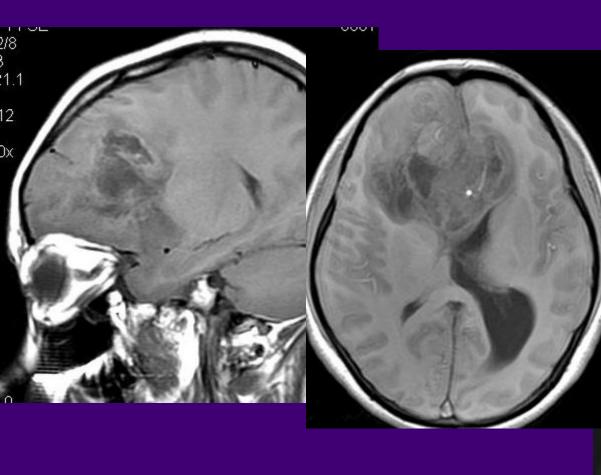


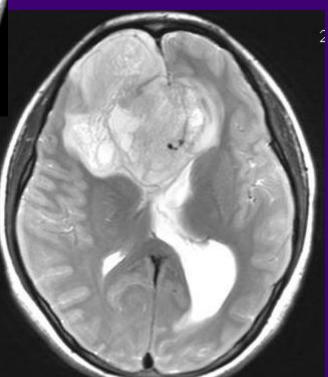


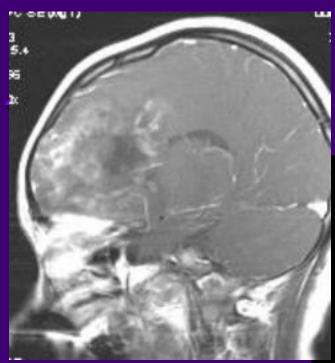
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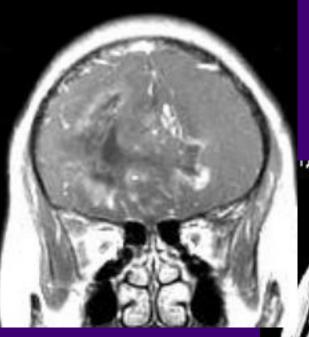
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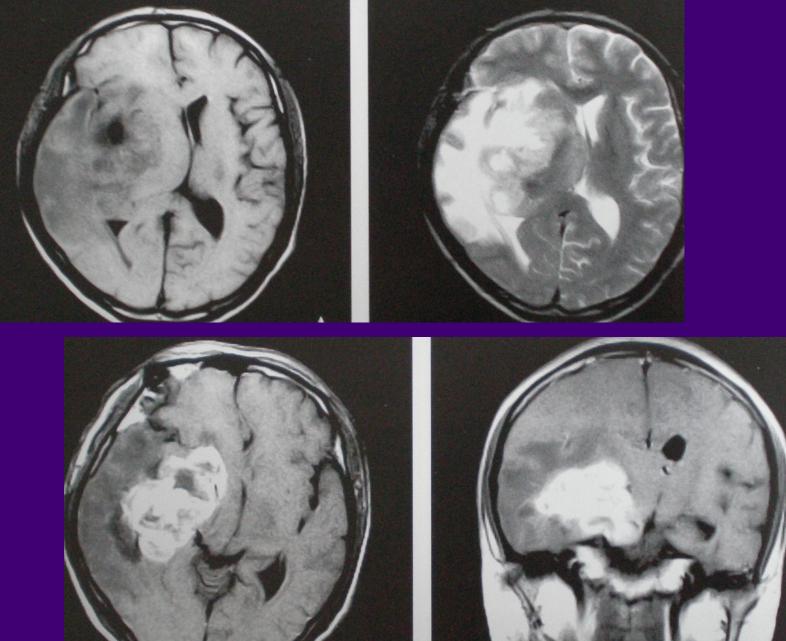


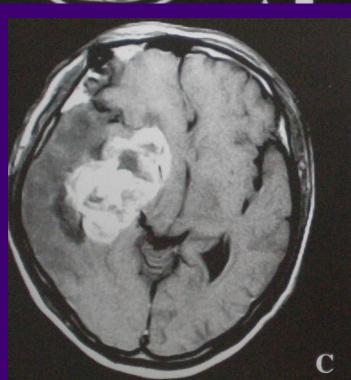


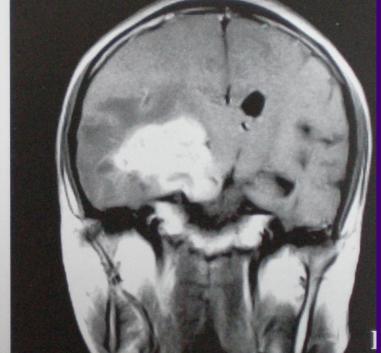


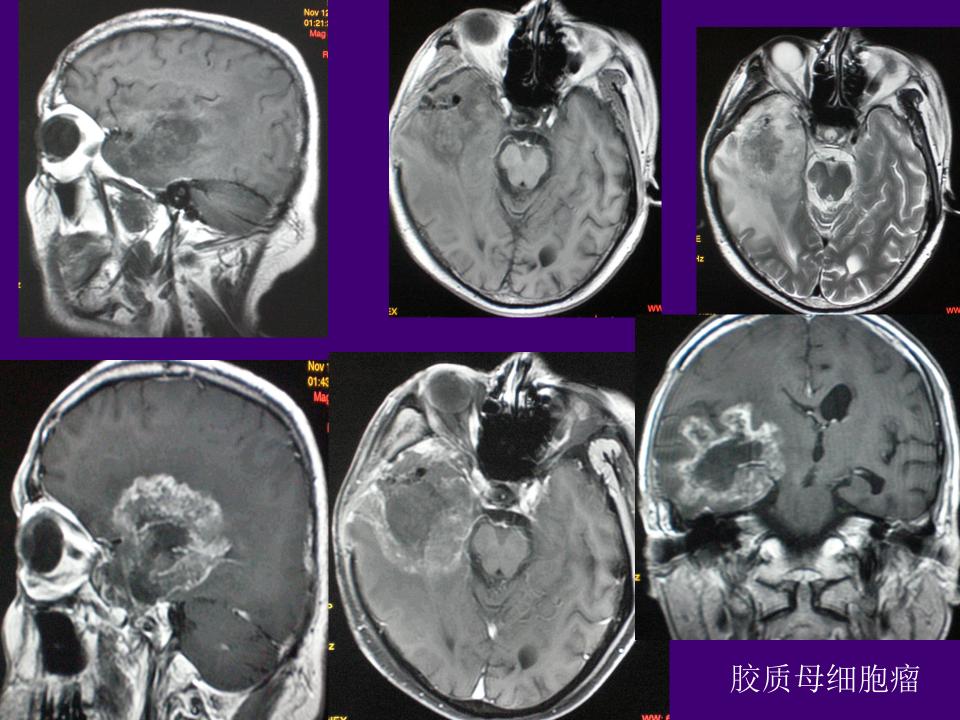








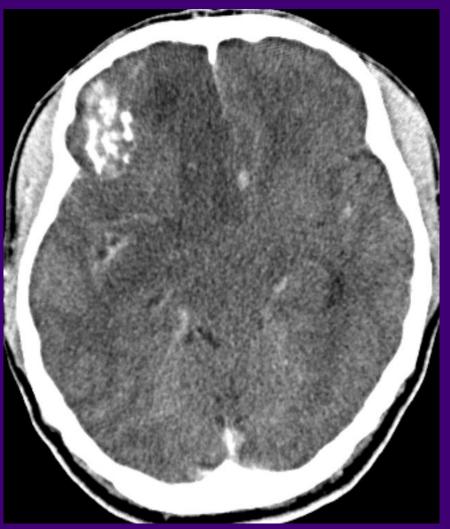




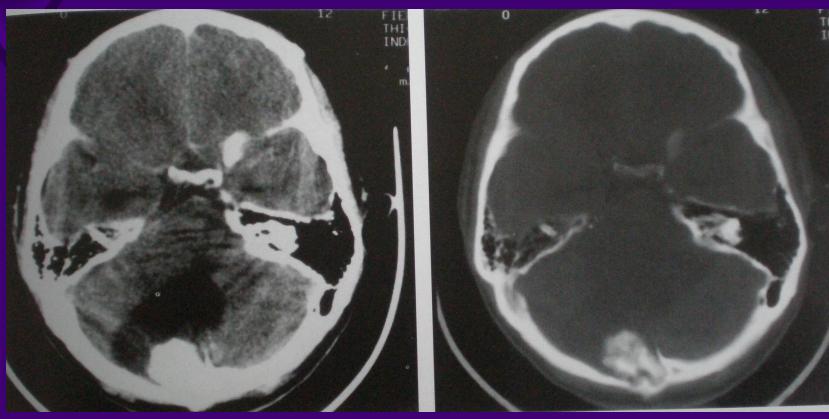


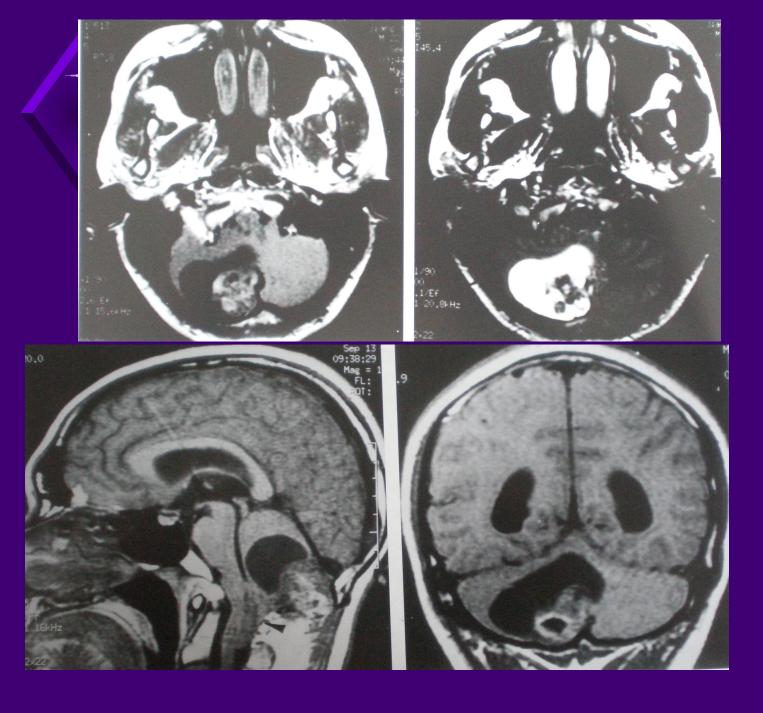
少枝胶质瘤











髓母细胞瘤medulloblastoma

占颅内肿瘤的1.84~6.54%。占胶质瘤的4-8%。主要发生于小儿(20岁以内),其次为成人。 男女发病比例2-3:1。

髓母细胞瘤一CT表现



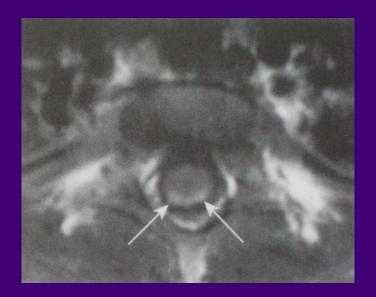


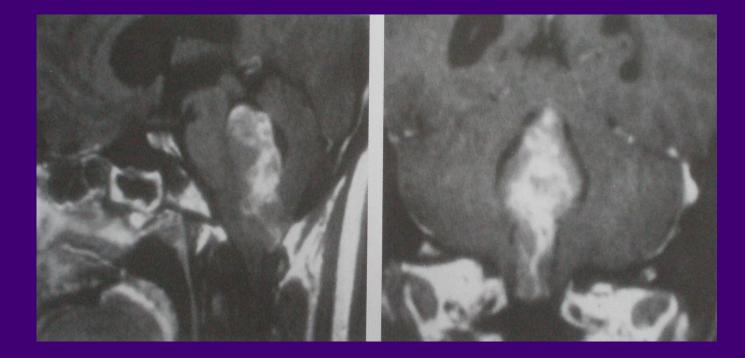
髓母细胞瘤一MRI表现

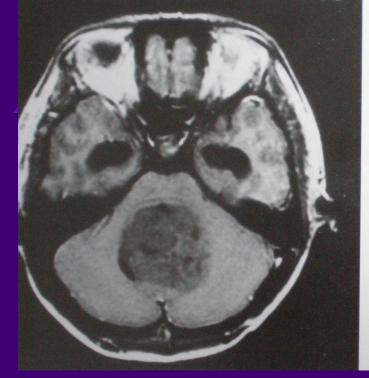
T1WI肿瘤为低信号 T2WI为等或高信号 Gd-DTPA可强化



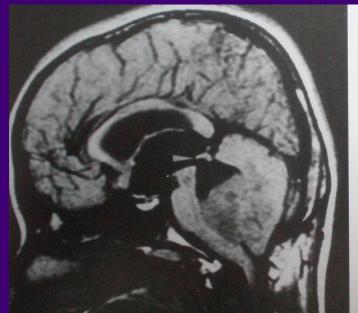


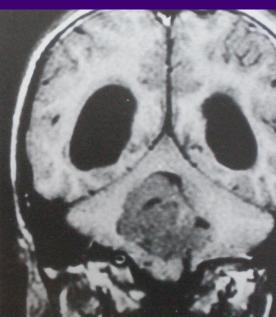


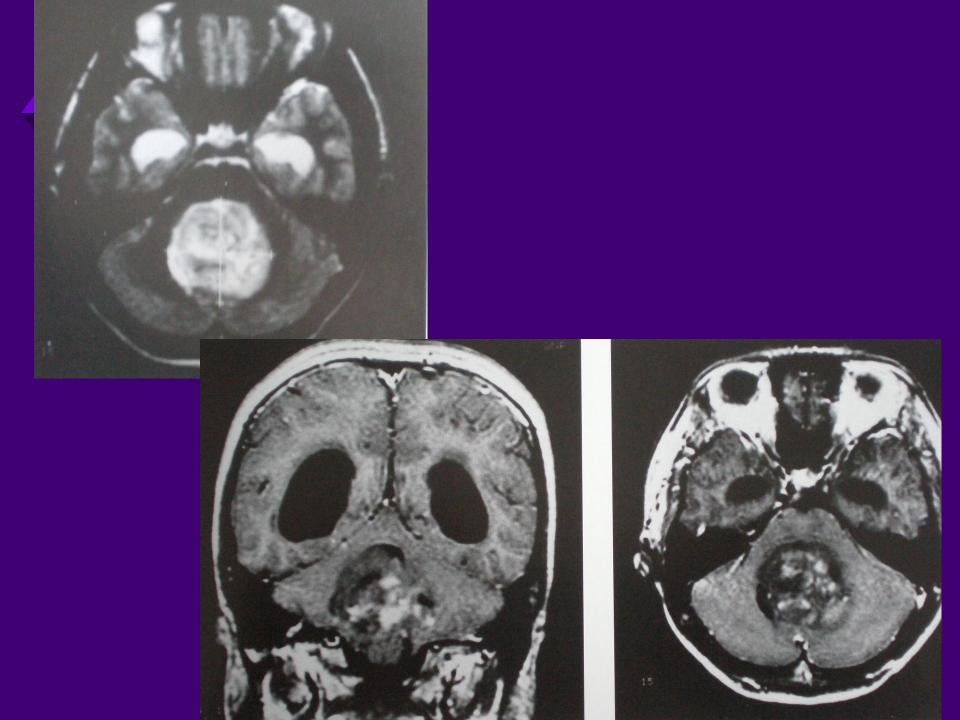












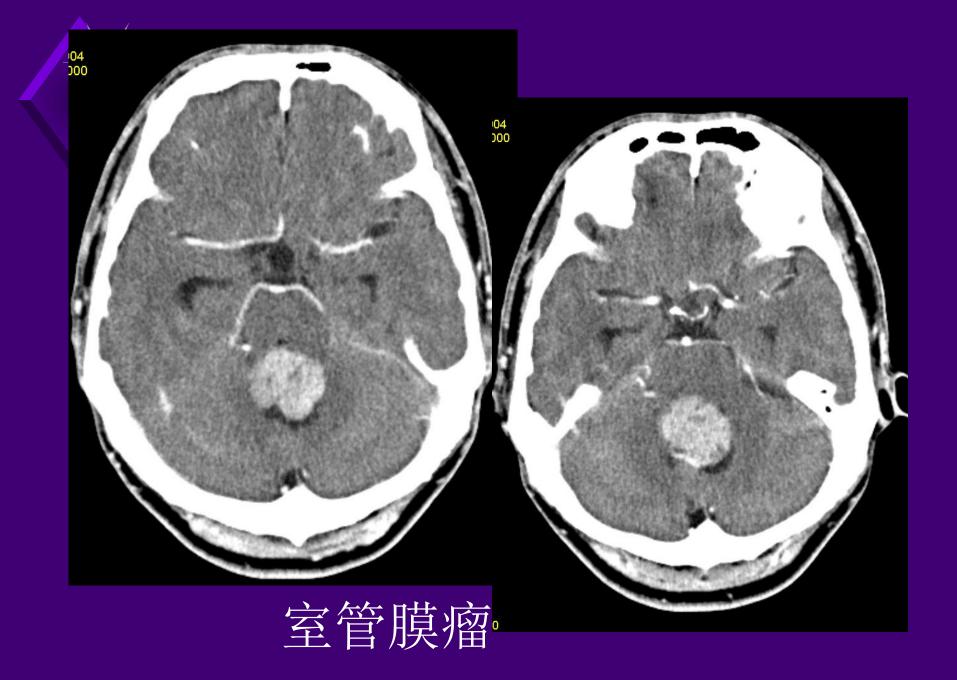
室管膜瘤ependymoma

是一类起源于室管膜细胞的肿瘤。占颅内肿瘤的5.19%,占胶质瘤的12.2%。可发生于脑室系统的任何部位,以第四脑室最多见占45.36%。

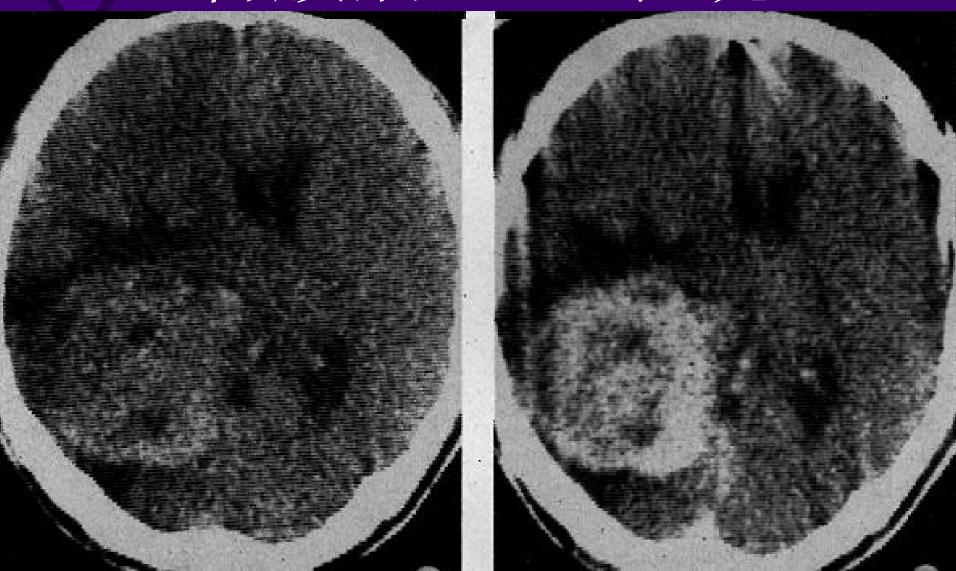
主要见于小儿和青少年,6~15岁。







室管膜瘤一CT表现





室管膜瘤平和



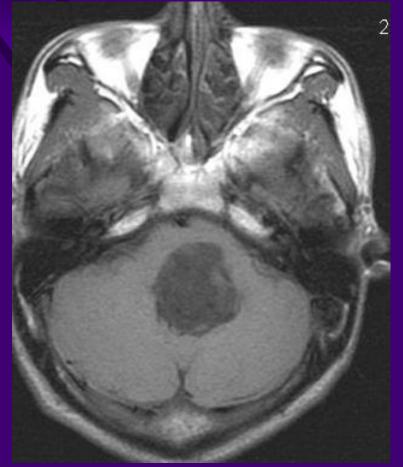
室管膜瘤增强表现

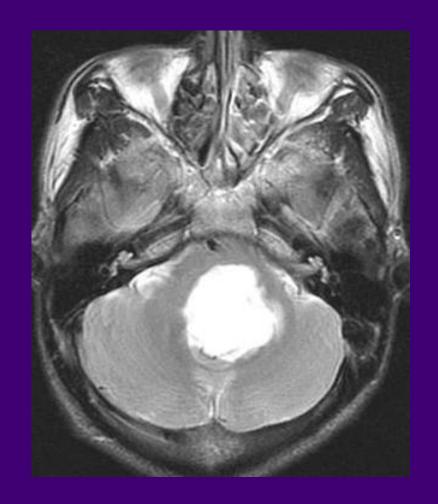
室管膜瘤一MRI表现

脑实质内 室管膜瘤 -MRI表现















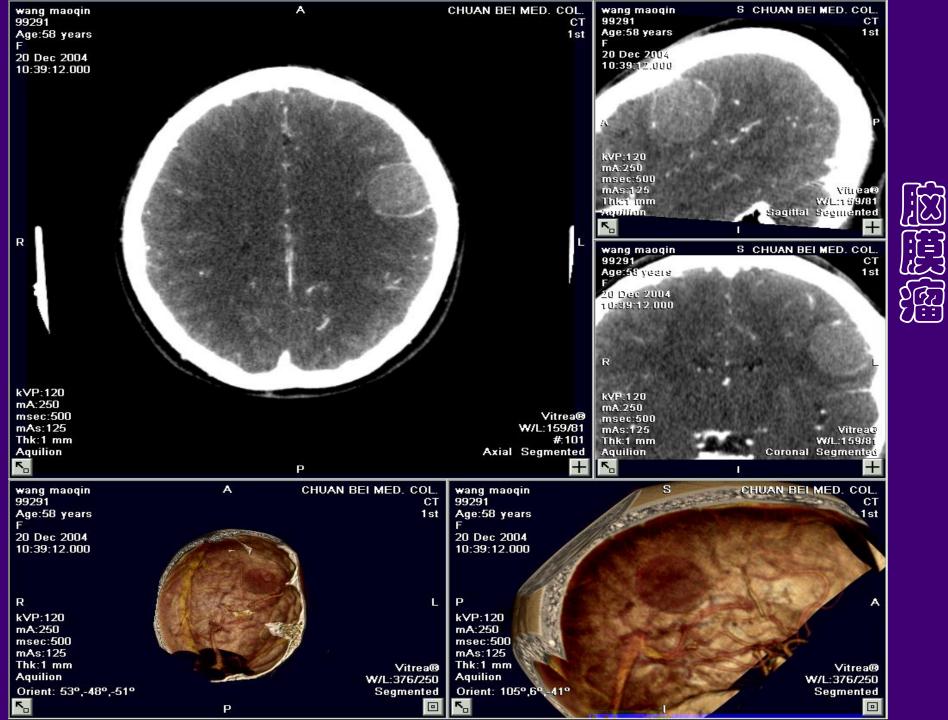


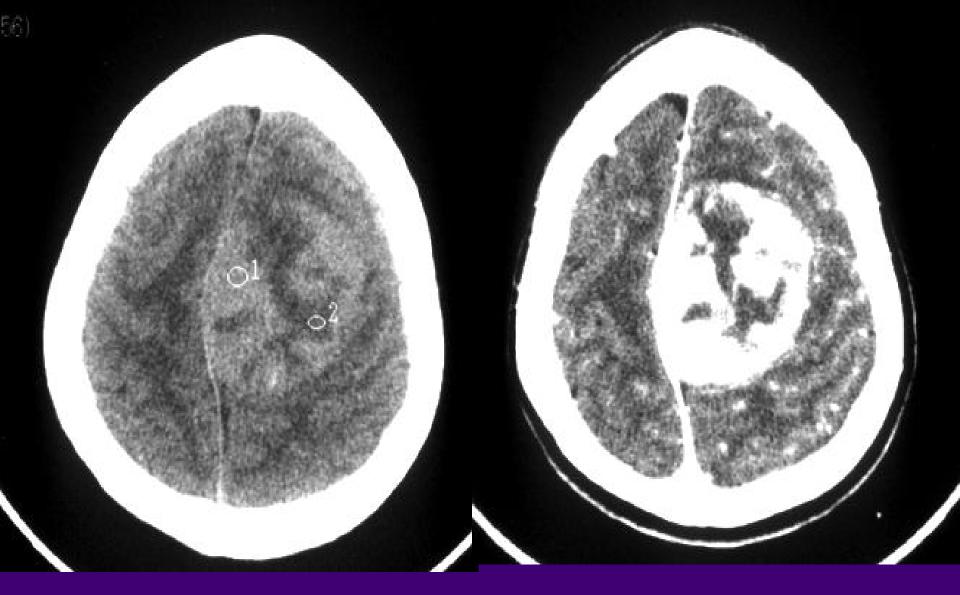
脑膜瘤meningioma

- (1)、临床表现轻微,神经系统受损的表现不定,多见于女性;
- (2)、CT表现为平扫等密度或稍高密度团块影,边缘清楚,密度均匀为主,增强 后病灶明显均匀性强化;
 - (3)、脑外肿瘤的征象;

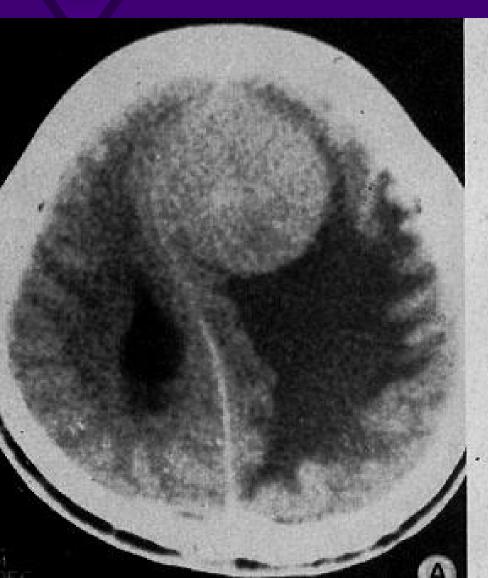
※ 脑膜瘤

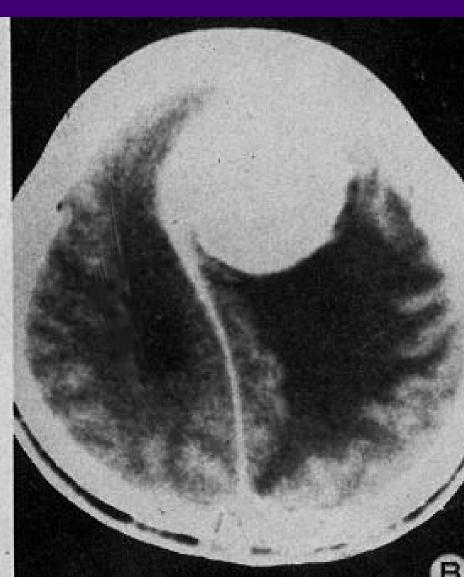
- (4)、MRI上T1加权像肿瘤多 为等或稍低信号,T2像为稍高或 等信号,增强为明显强化;
- (5)、血管造影可见血管移位、 肿瘤染色、脑膜瘤血循环晚于脑 循环等特点,同时可显示肿瘤供 血血管。

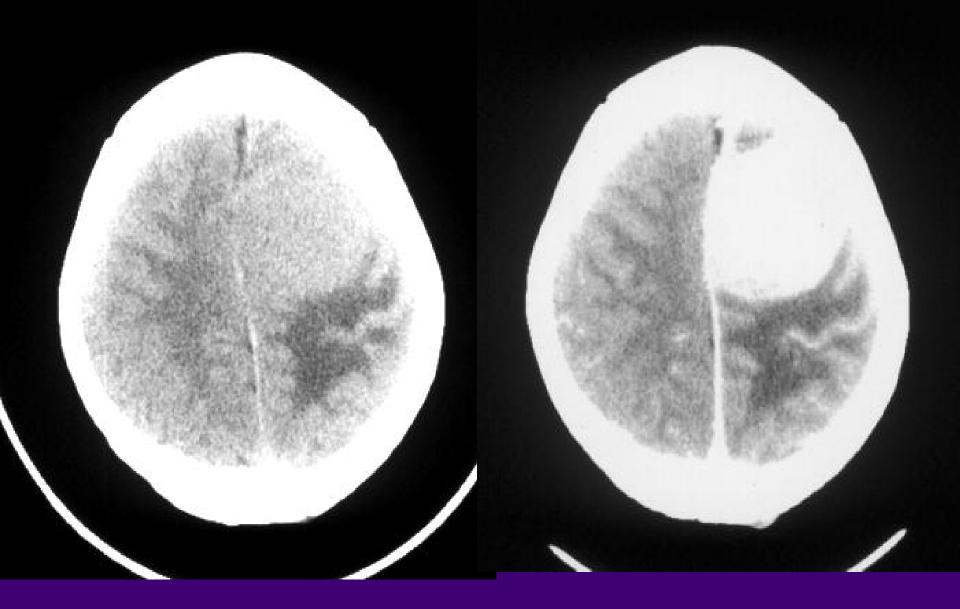


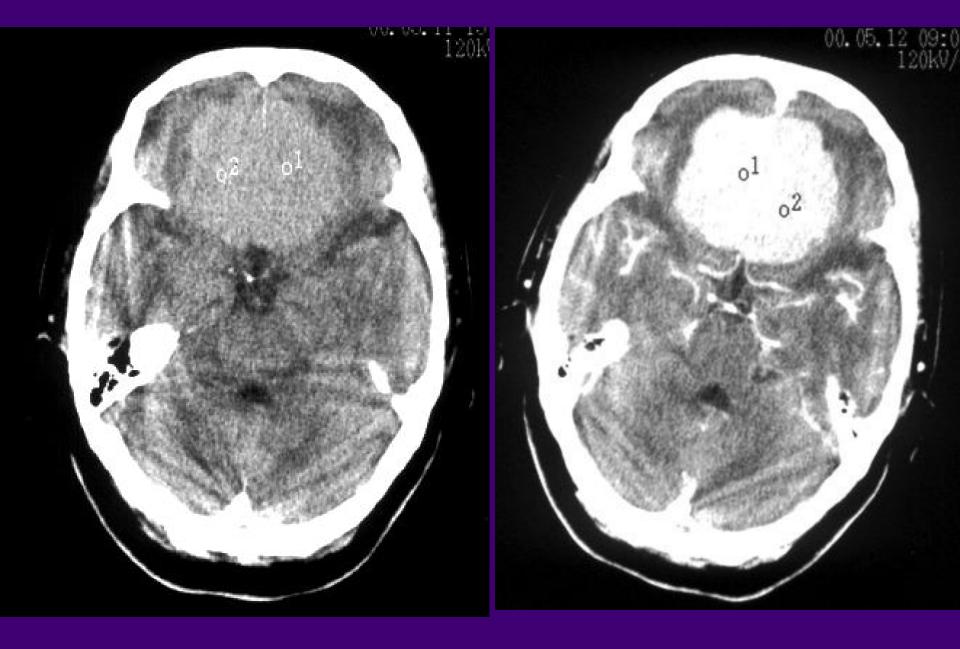








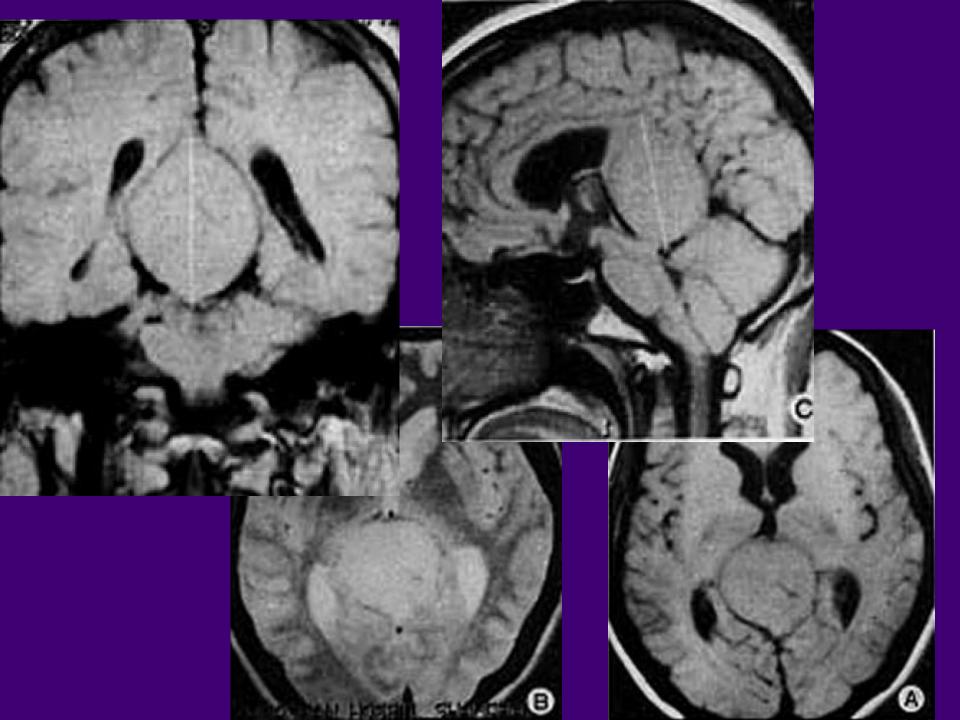


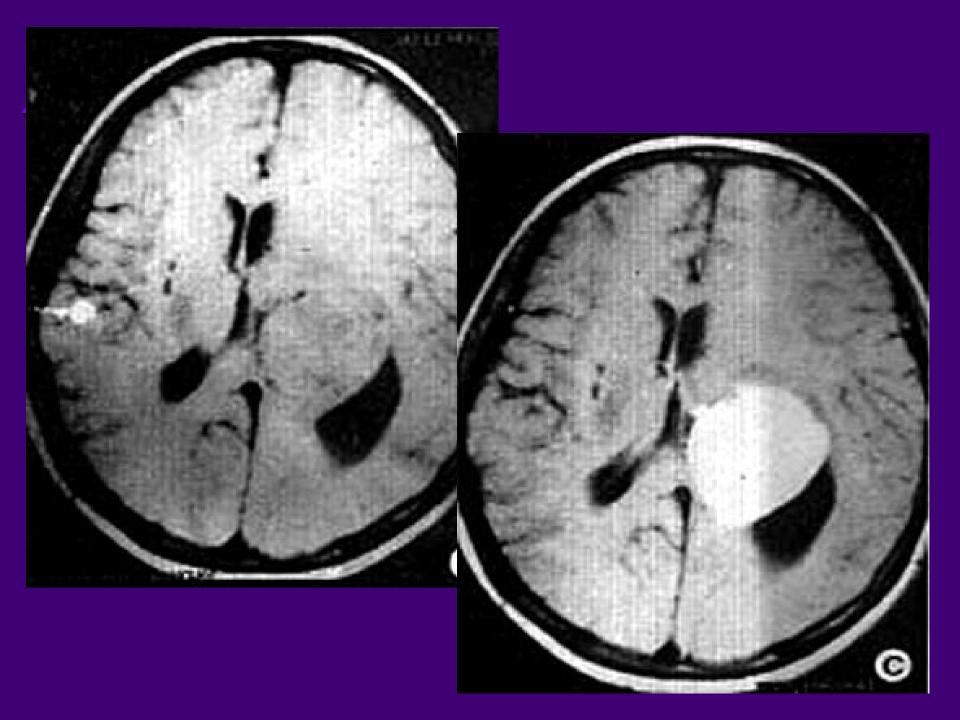


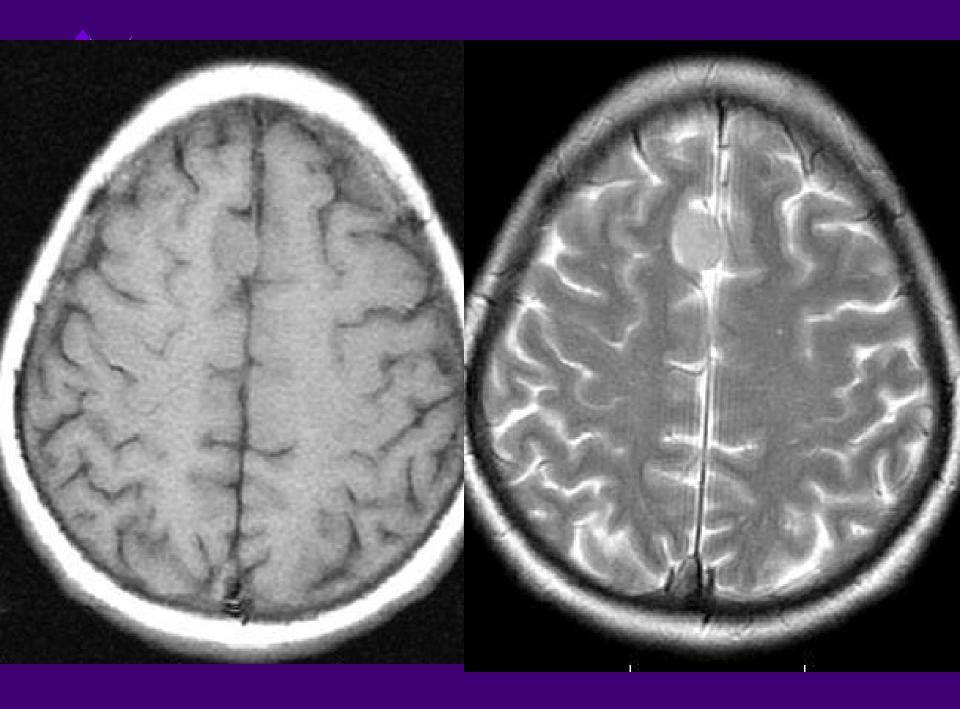


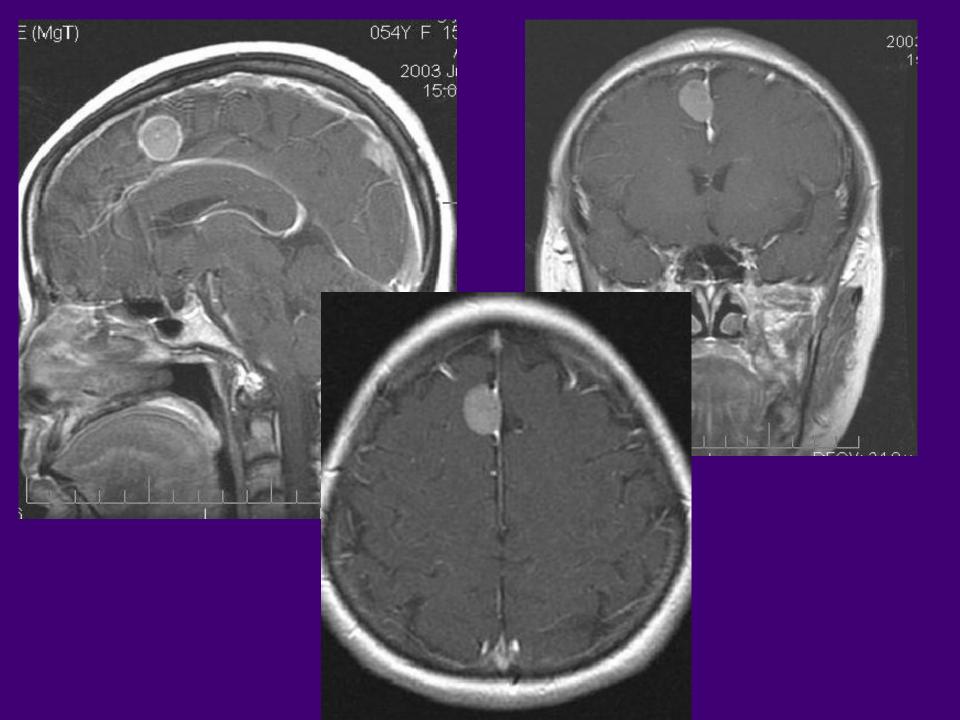


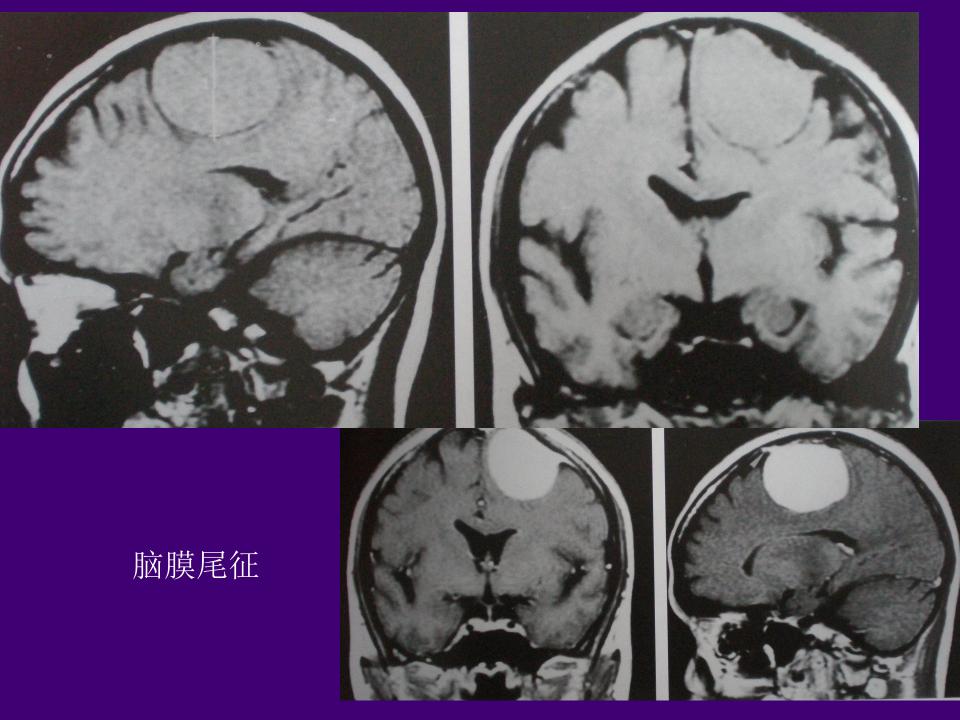


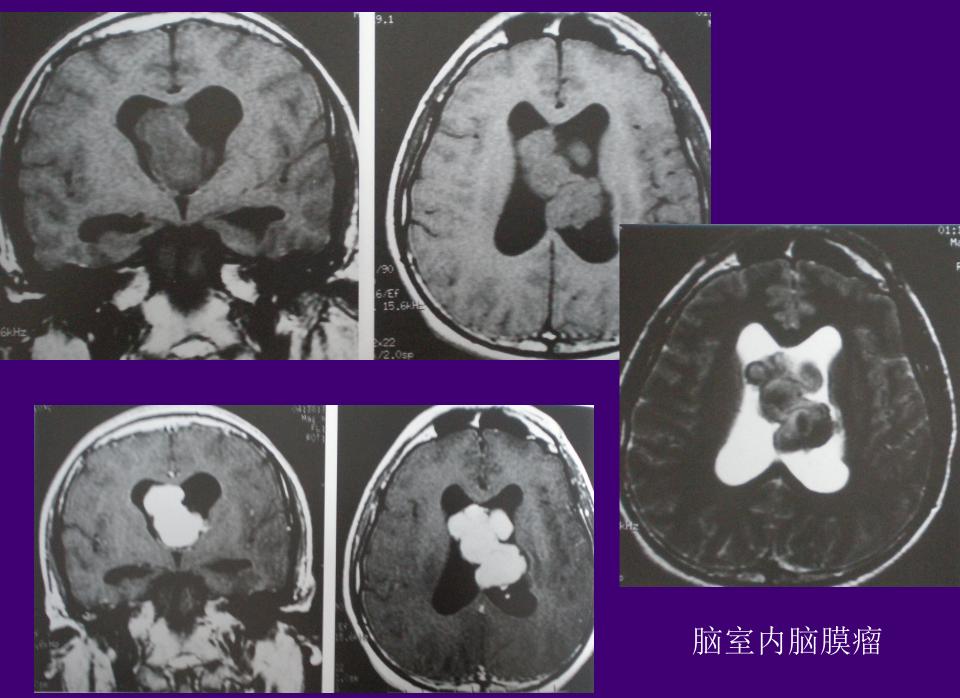












新武松打虎

*垂体瘤一病理

垂体瘤

分泌性腺瘤

无分泌性腺瘤

营养性激素腺瘤 促激素性腺瘤

HGH腺瘤

ACTH腺瘤

TSH腺瘤

JnH腺瘤

垂体瘤一临床表现

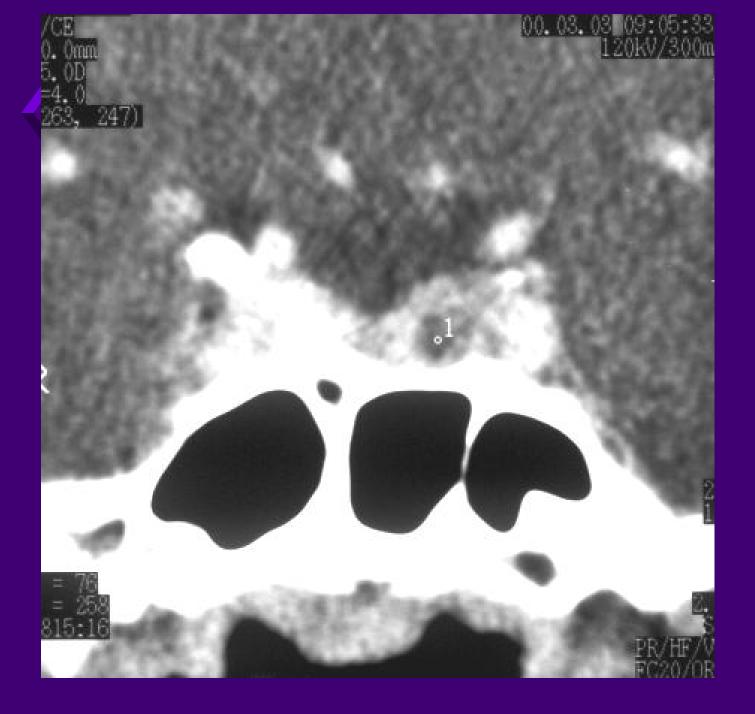
垂体瘤最具特征的症状为内分泌症状,特别是内分泌亢进的症状。

泌乳闭经综合征一PRL腺瘤 肢端肥大症和巨人症一HGH腺瘤 Cushin氏综合征—ACTH腺瘤 常见症状:头痛、压迫视交叉,视力 障碍。

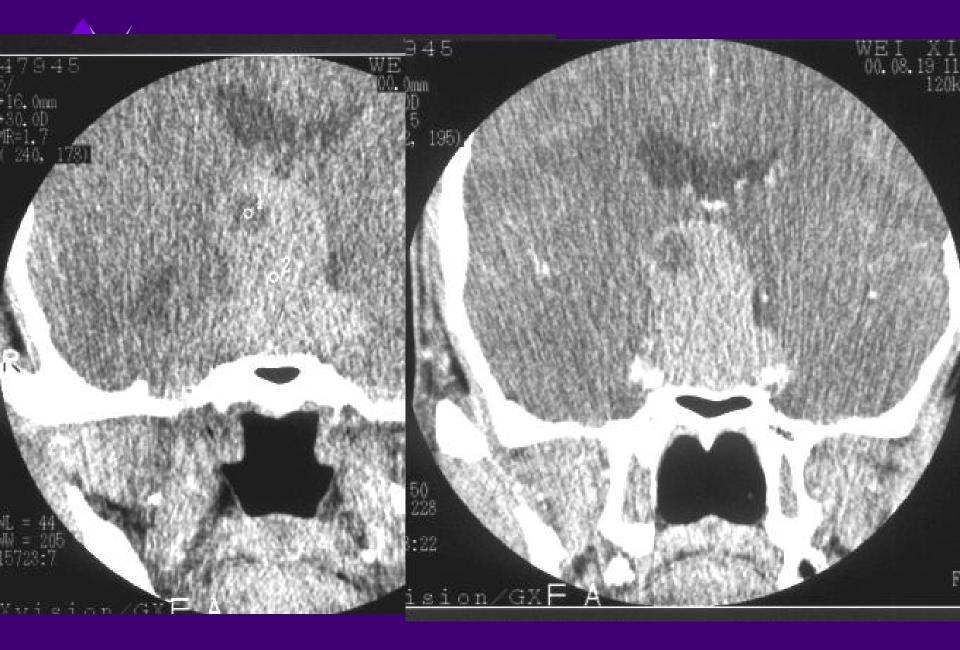


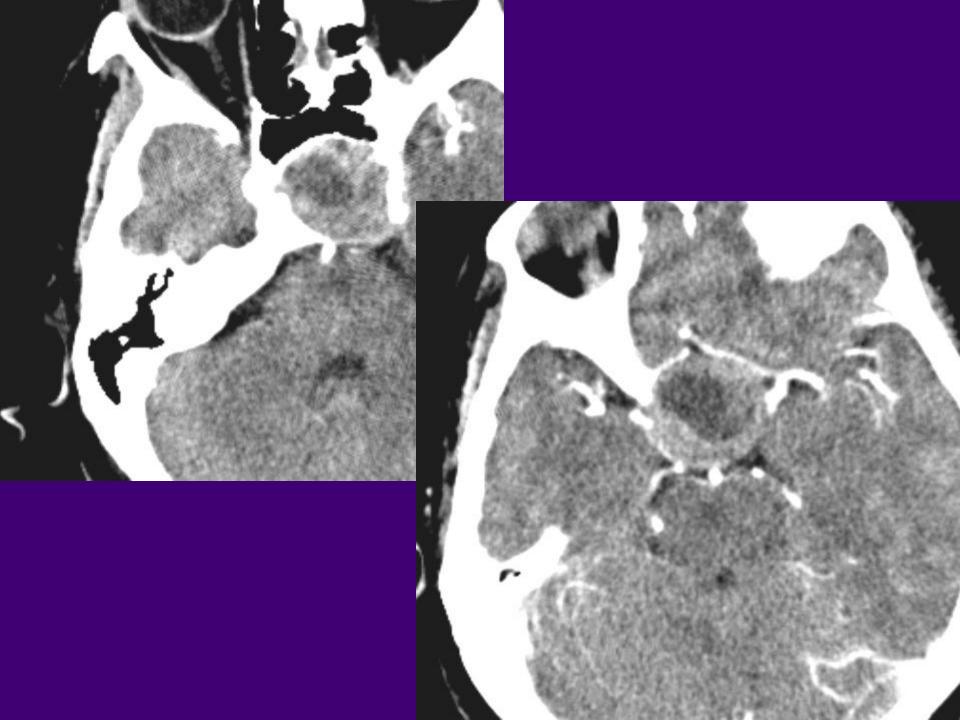
垂体瘤—CT表现

- (1)、较特征的临床表现;
- (2)、垂体微腺瘤CT增强早期表现为小结节状稍低密度灶,MRI上则呈稍长T1稍长T2强化不明显灶;
- (3)、大腺瘤表现为鞍区团块影,临 近结构受压变形;
- (4)、X线片可见垂体窝扩大,骨质 吸收等改变。

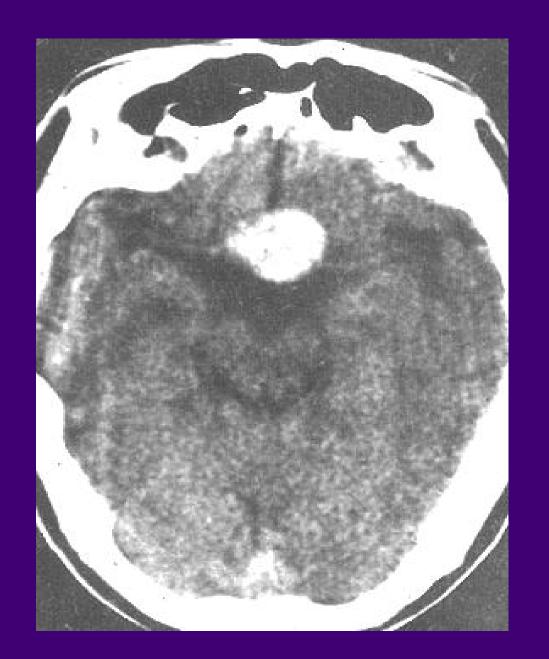




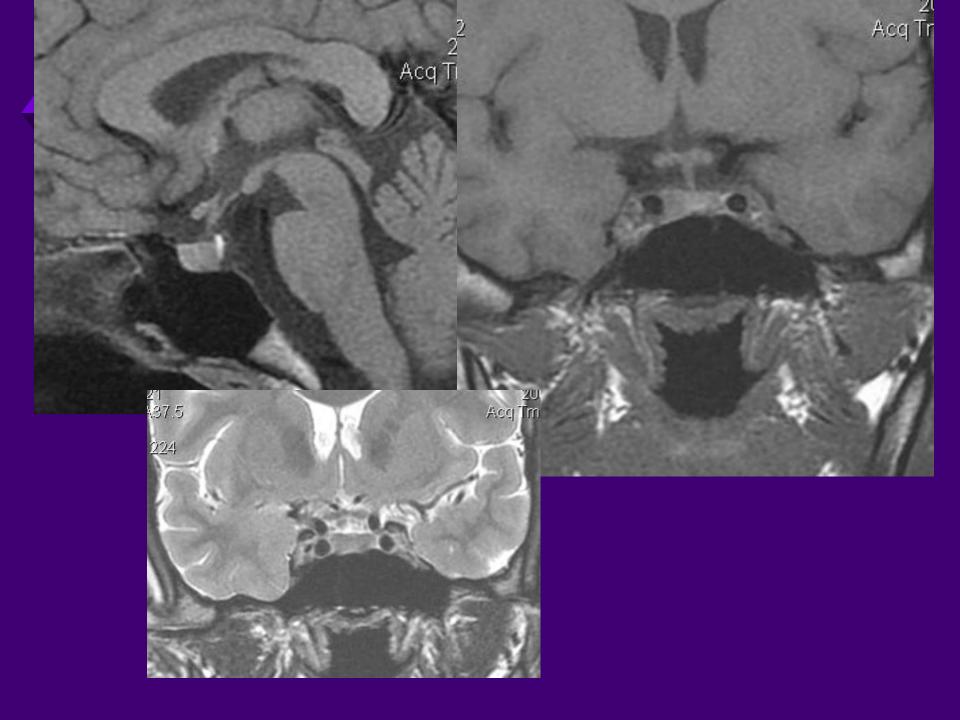




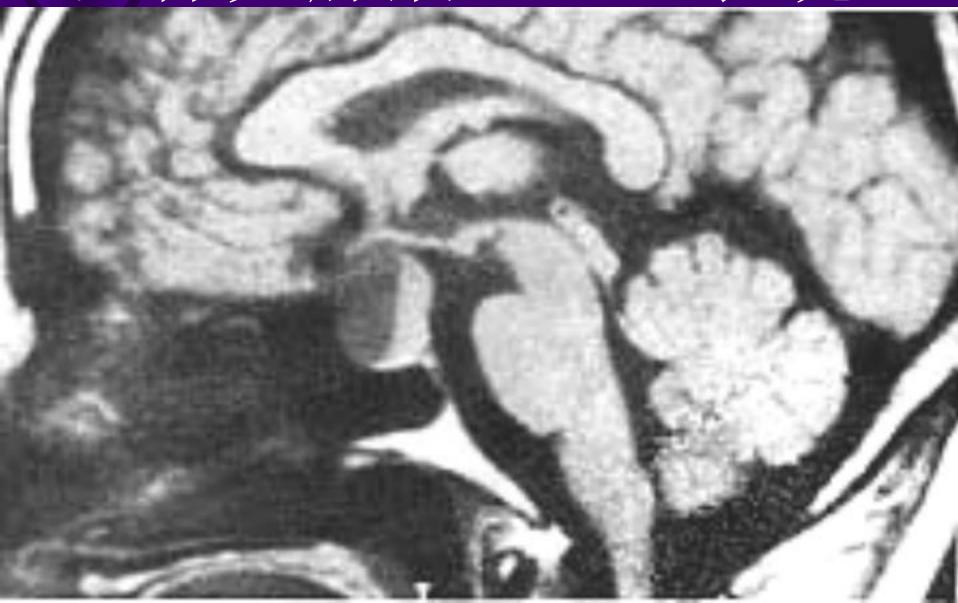




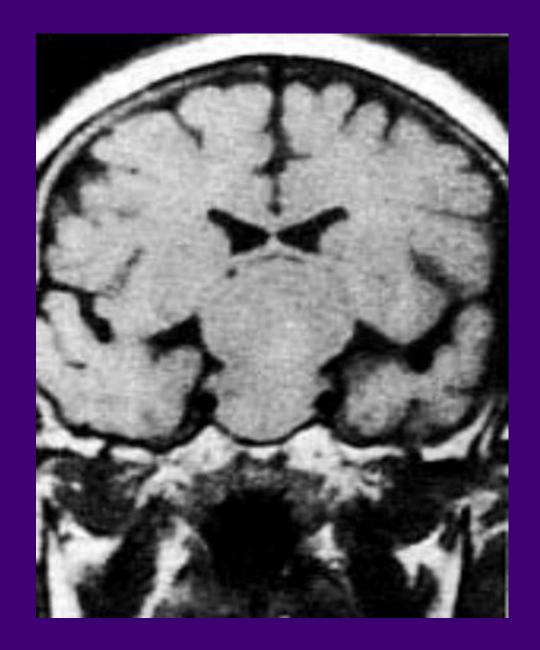
垂体瘤卒中

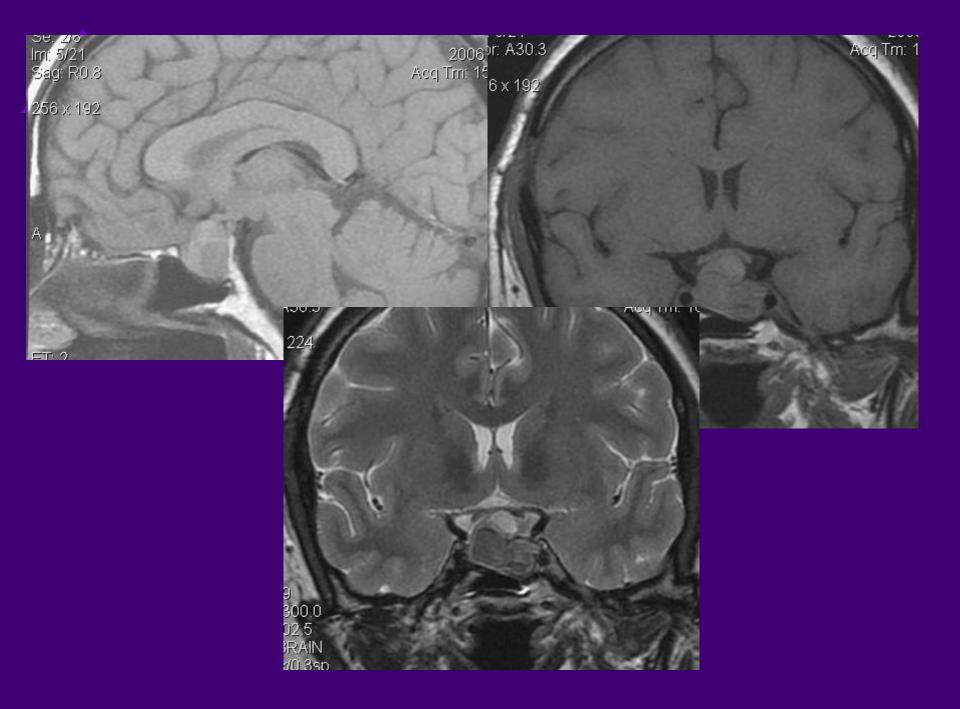


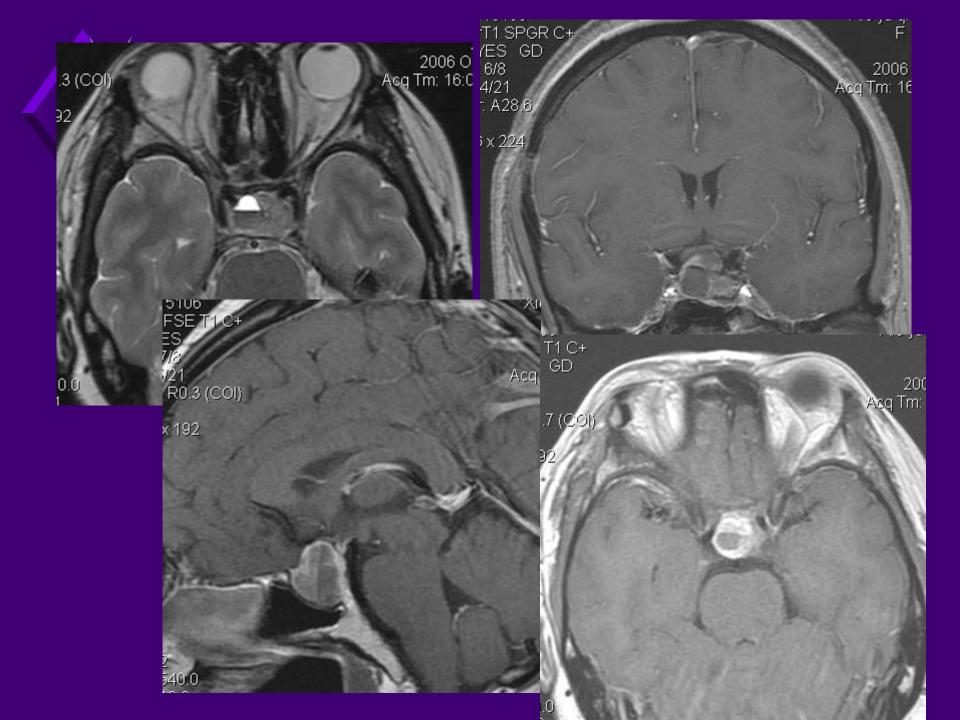
進体大腺瘤一MRI表现

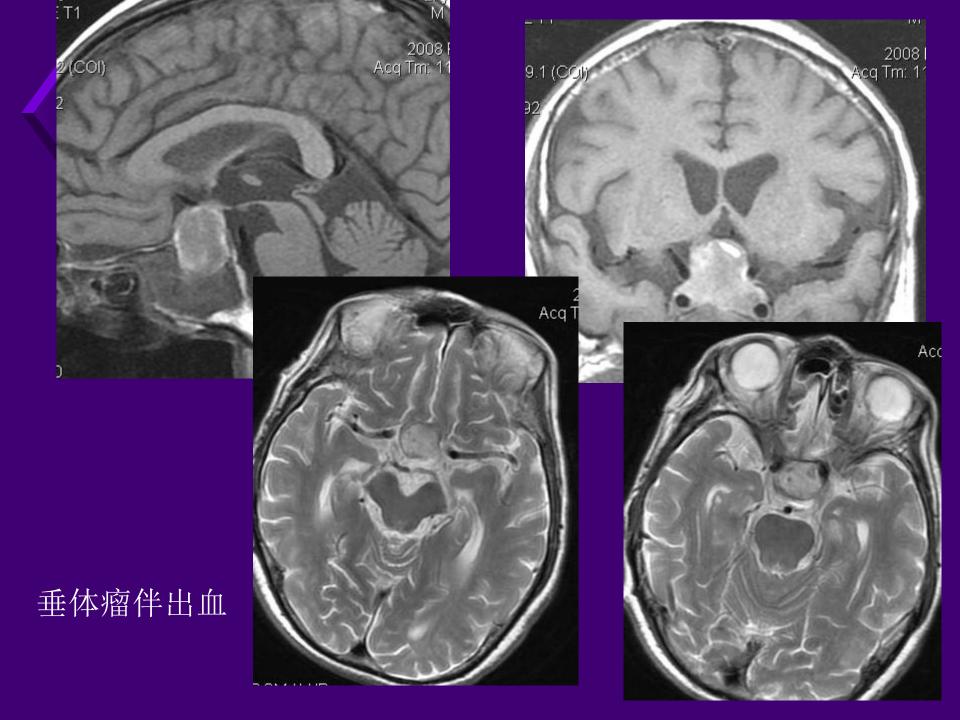










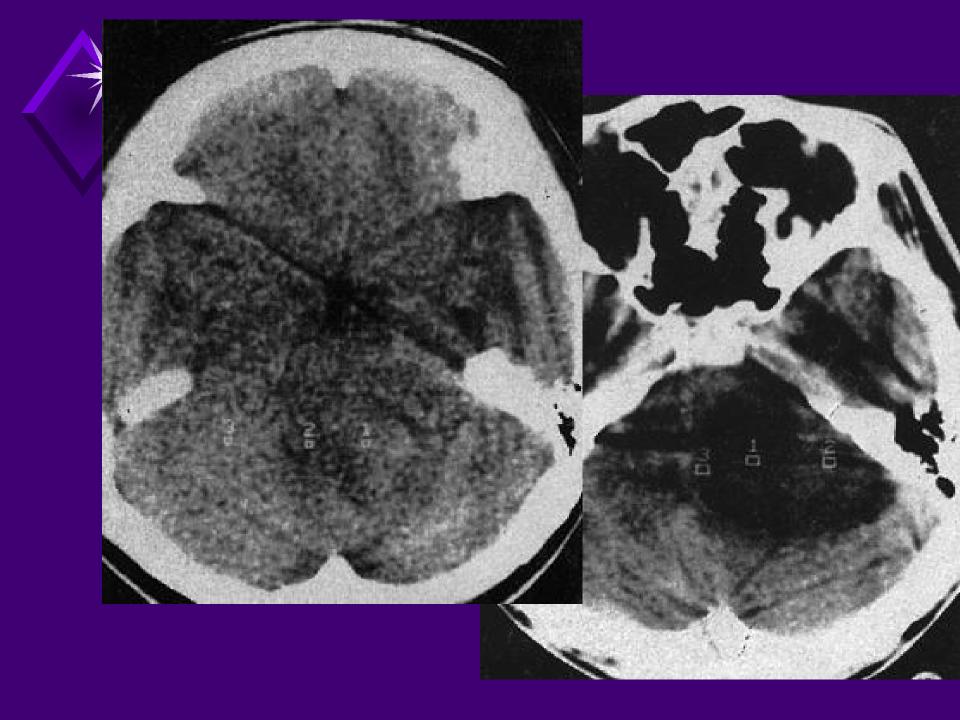


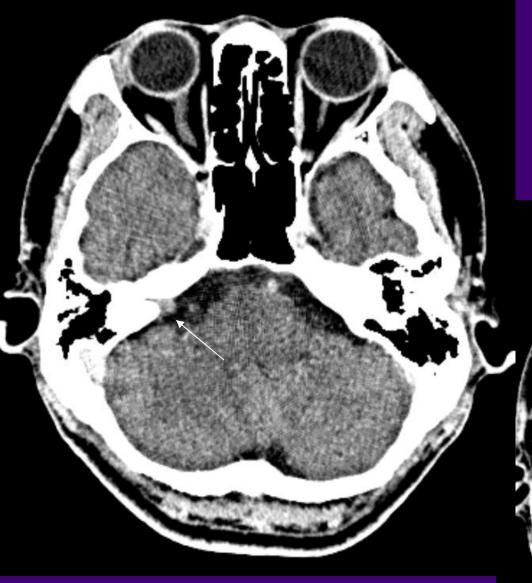




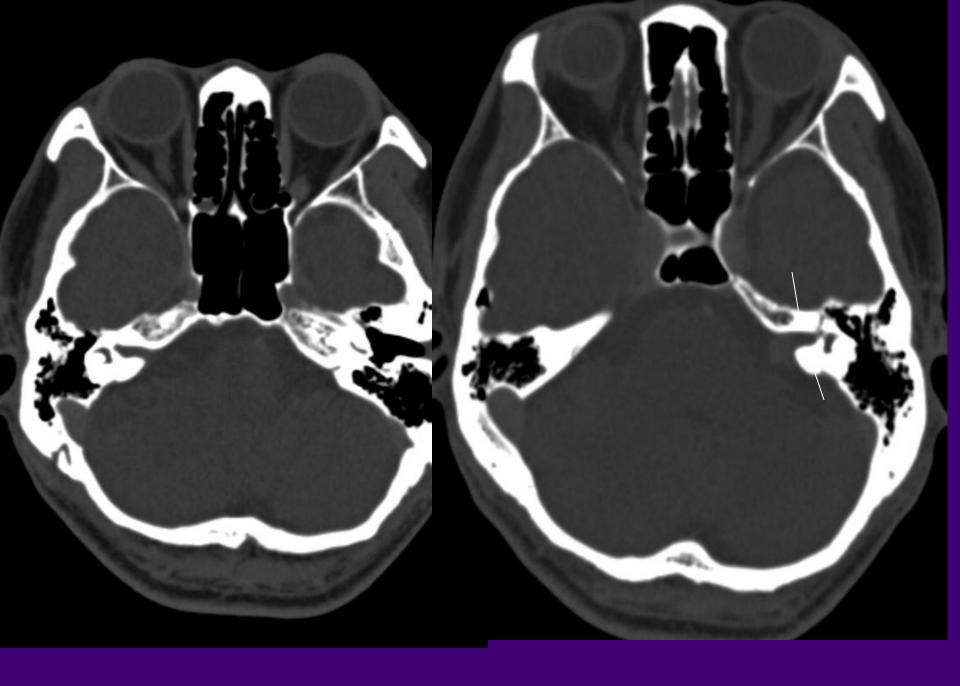
听神经瘤

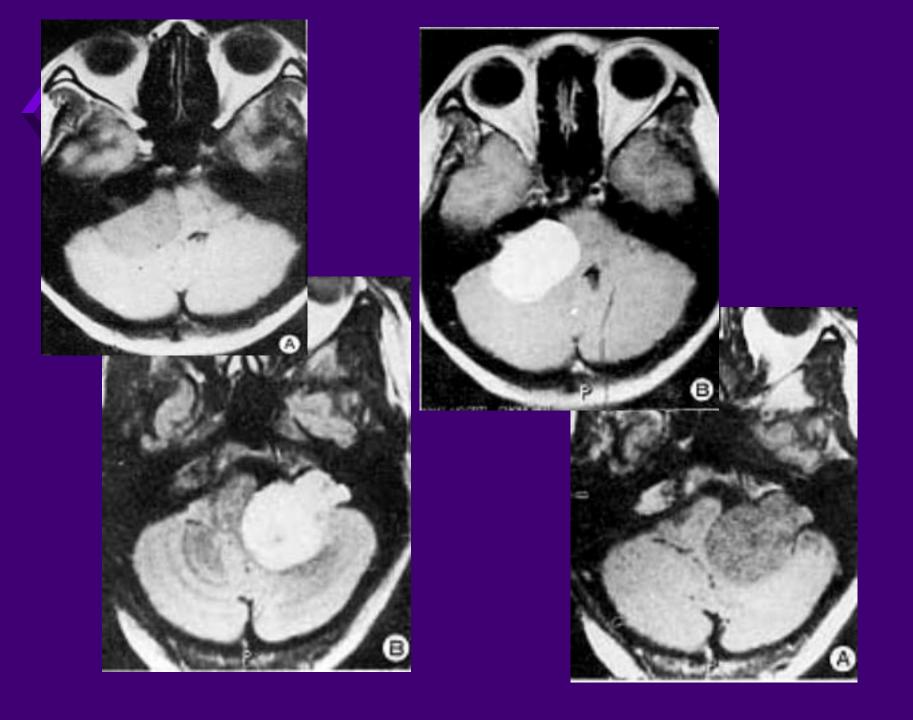
- (1)、临床常有听力下降表现
 - (2)、病变位于桥小脑角;
- (3)、CT或MRI表现为囊实性 团块影;增强实质部分有强化 (4)、常见内听道扩大。



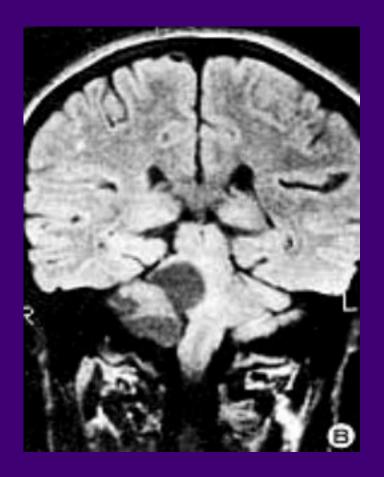


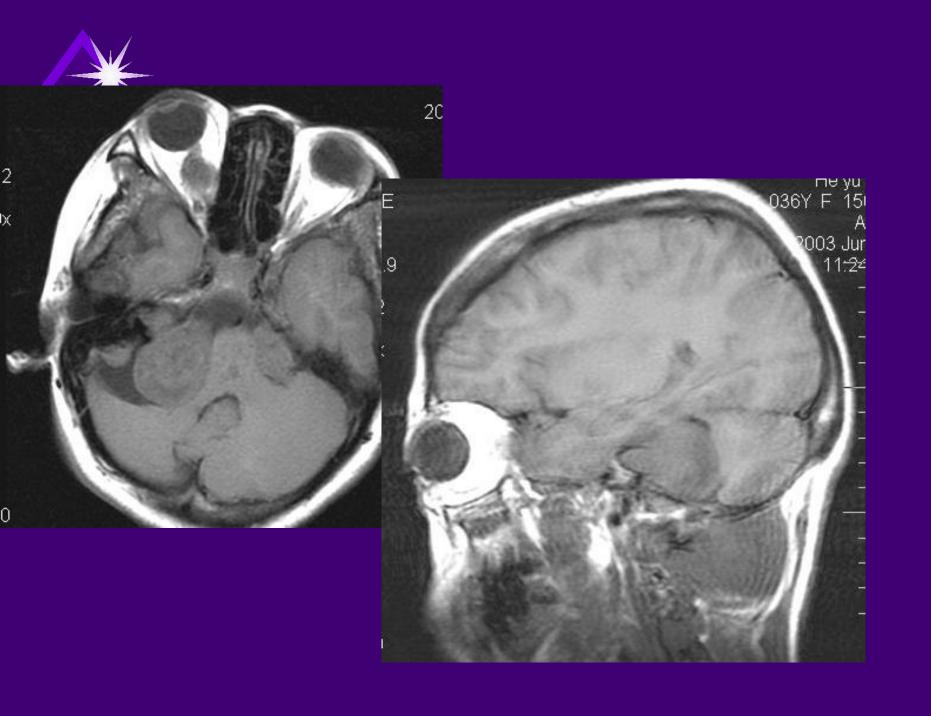
微小听神经瘤



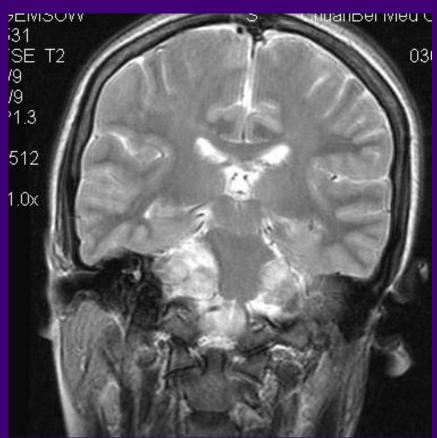


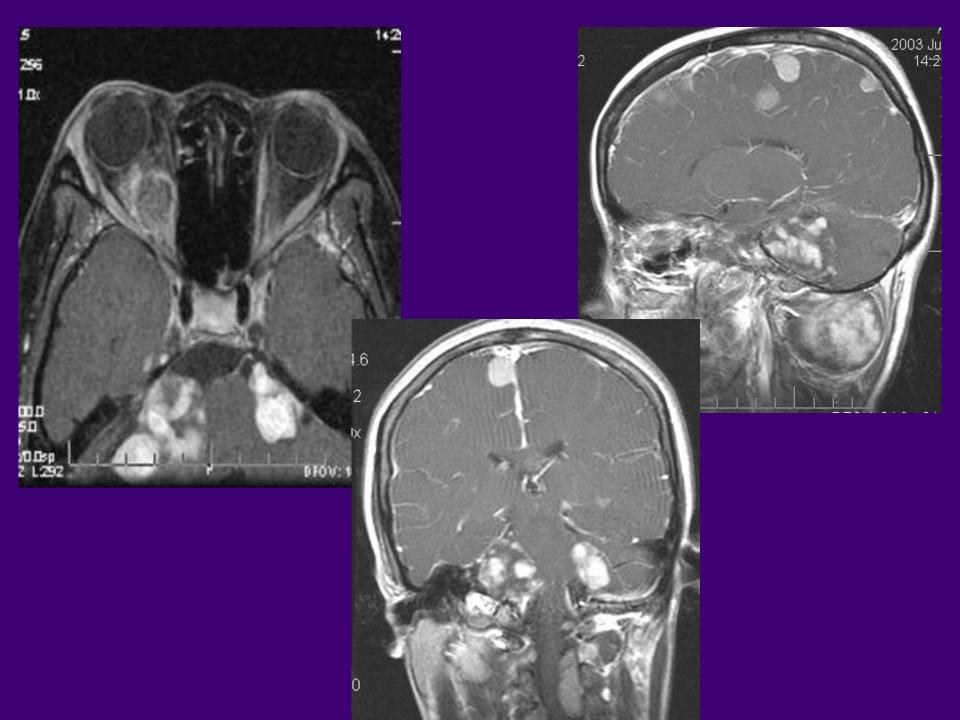












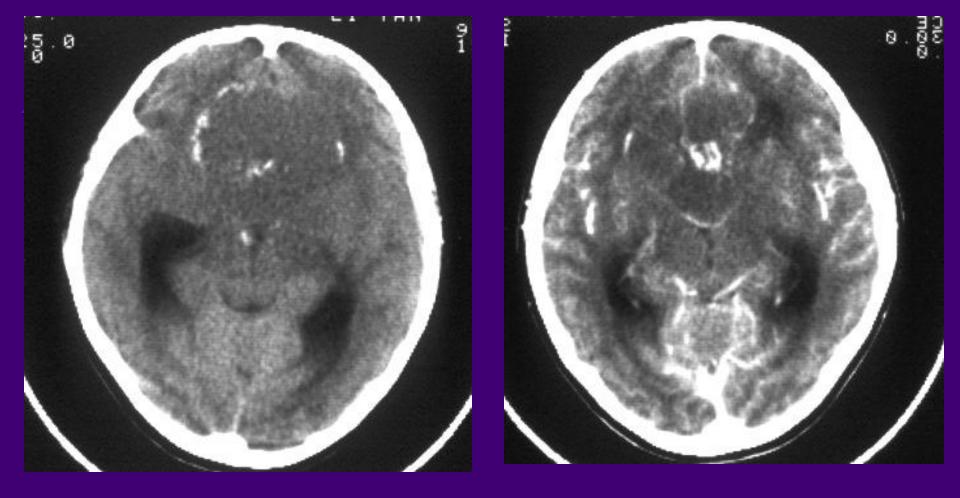


颅咽管瘤

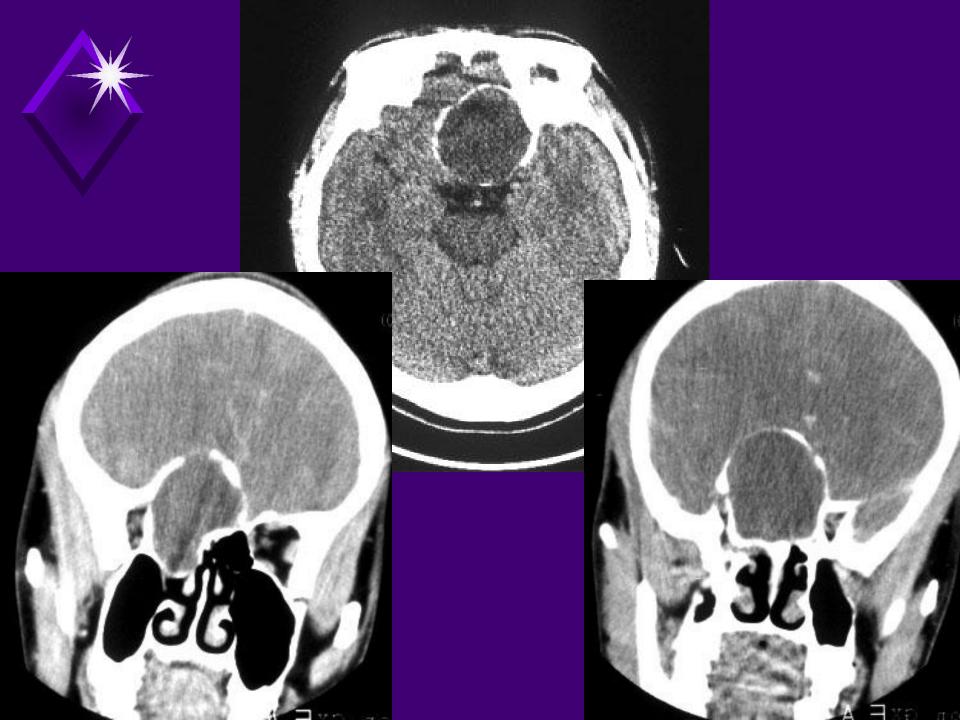
- (1)、儿童多见,颅内高压、内分泌改变如早熟等改变;
- (2)、多数病灶位于鞍上池内

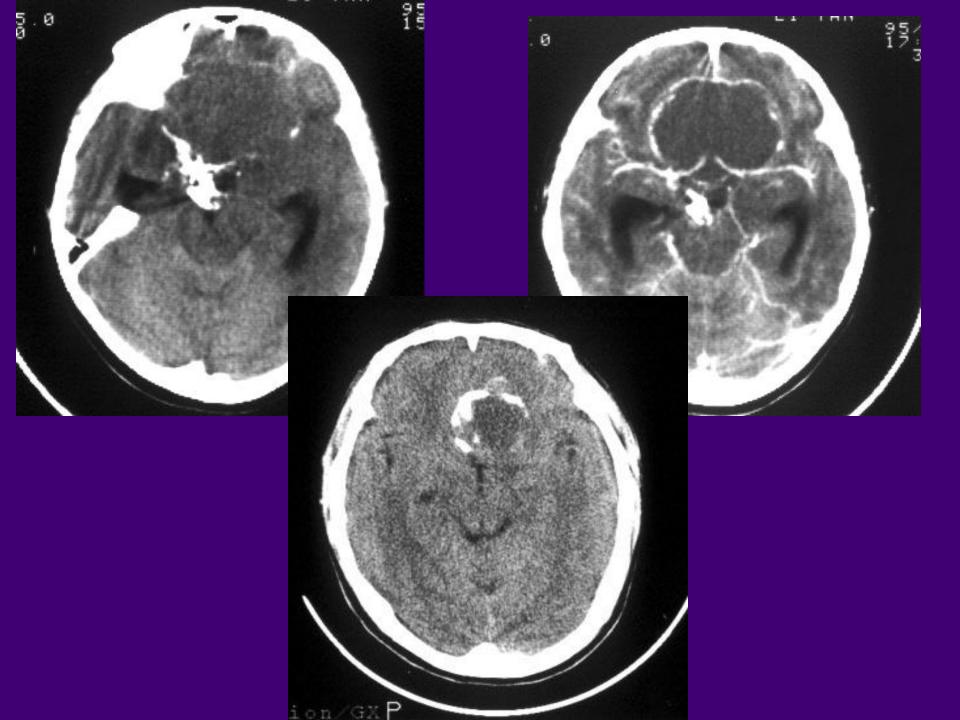
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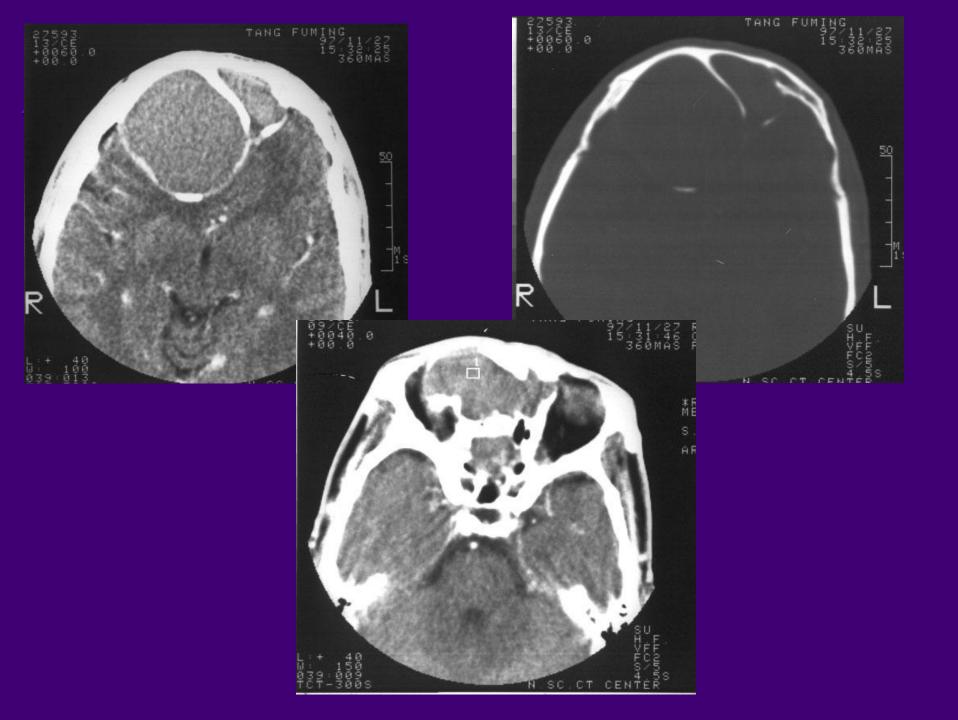
- (3)、CT以囊性病灶伴边缘不同形式的钙化为特点:
- (4)、因CT可显示钙化,故CT 在诊断本病时优于MRI。

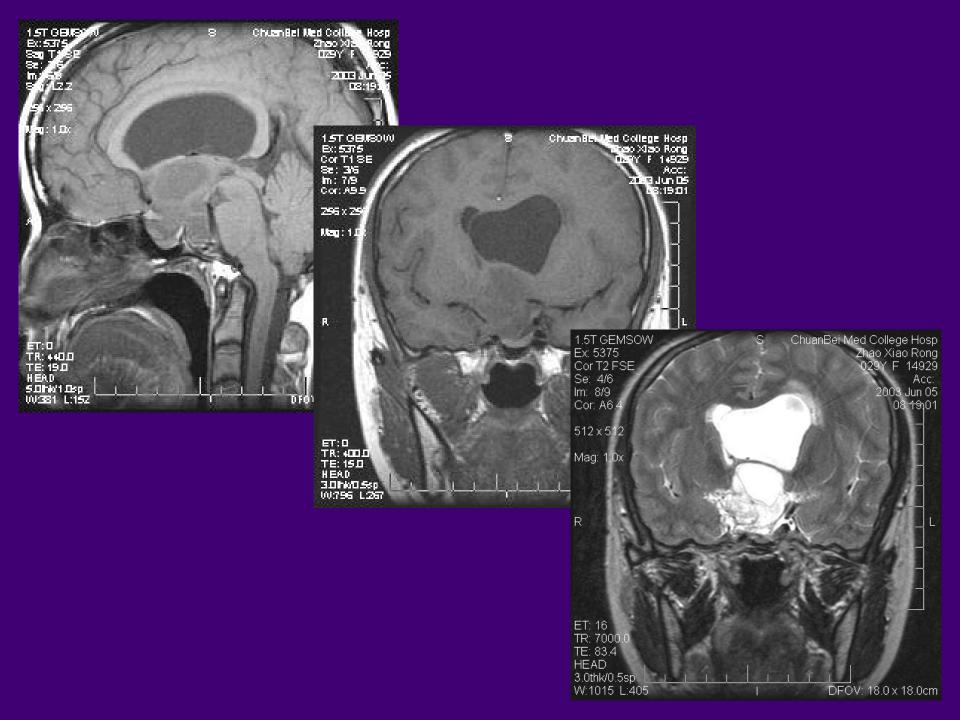


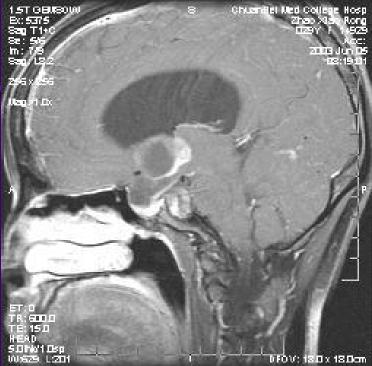
颅咽管瘤CT平扫和增强

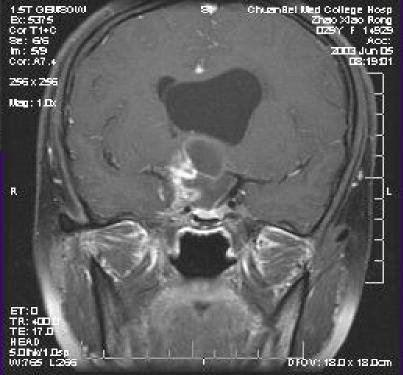






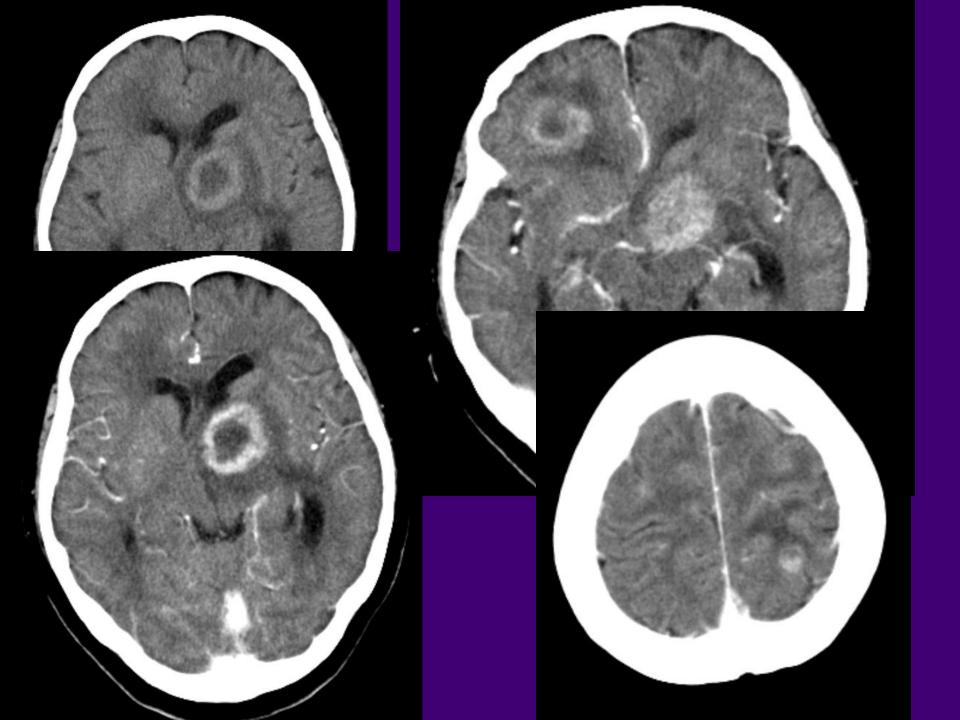


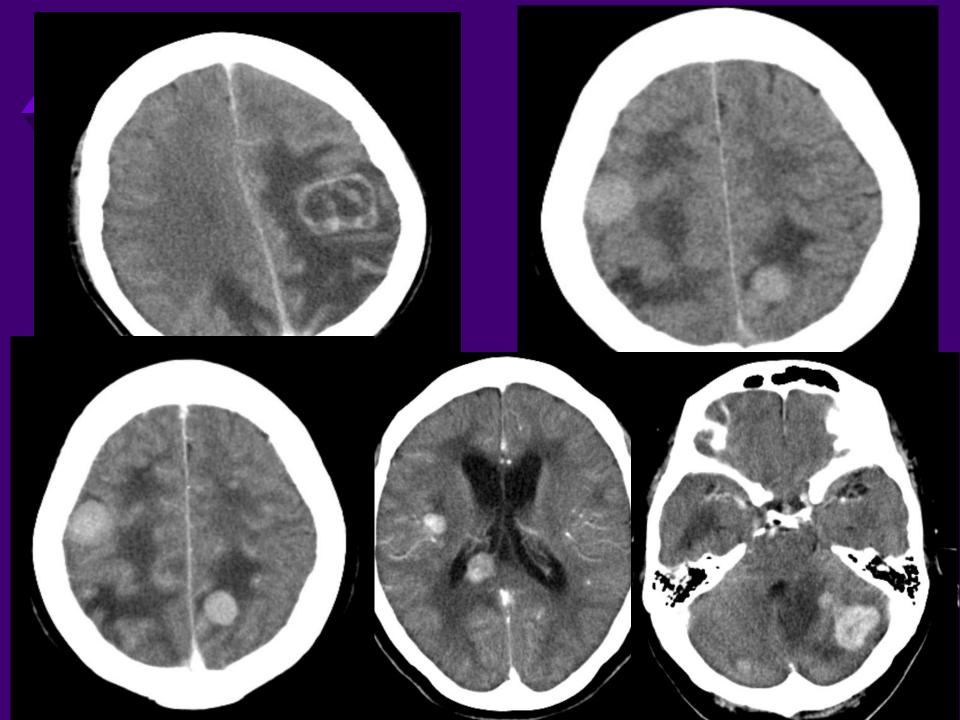


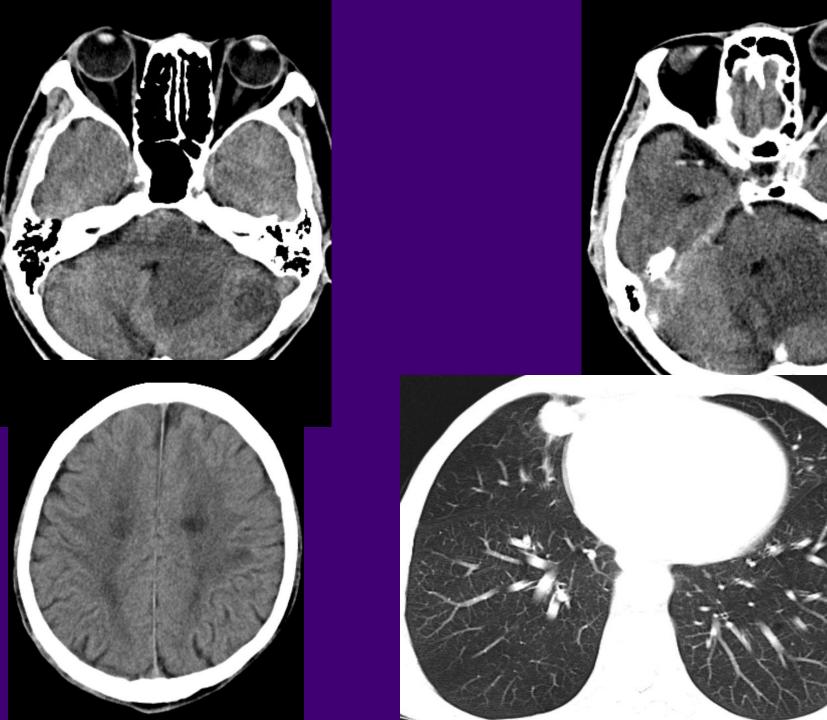


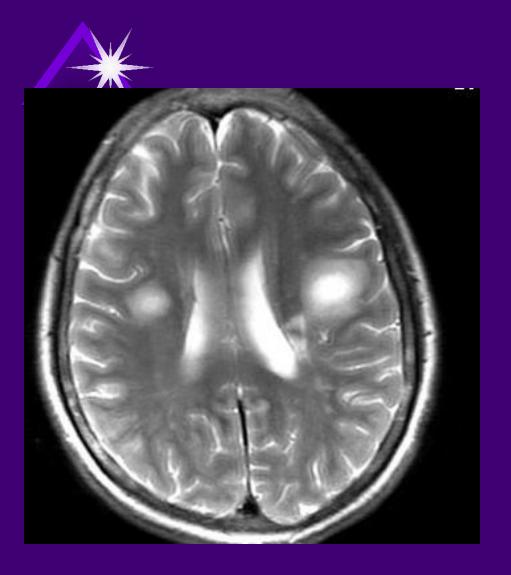
转移瘤

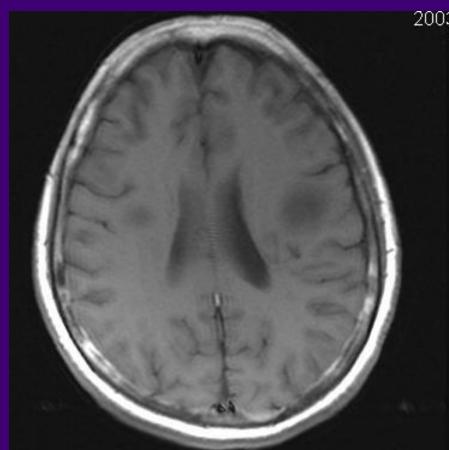
- (1)、中老年为主;
- (2)、病变多发,且位置表浅;
- (3)、影像学表现多种多样,如等密度结节、花环,斑片状低密度等
 - (4)、小结节大水肿是其主要特点

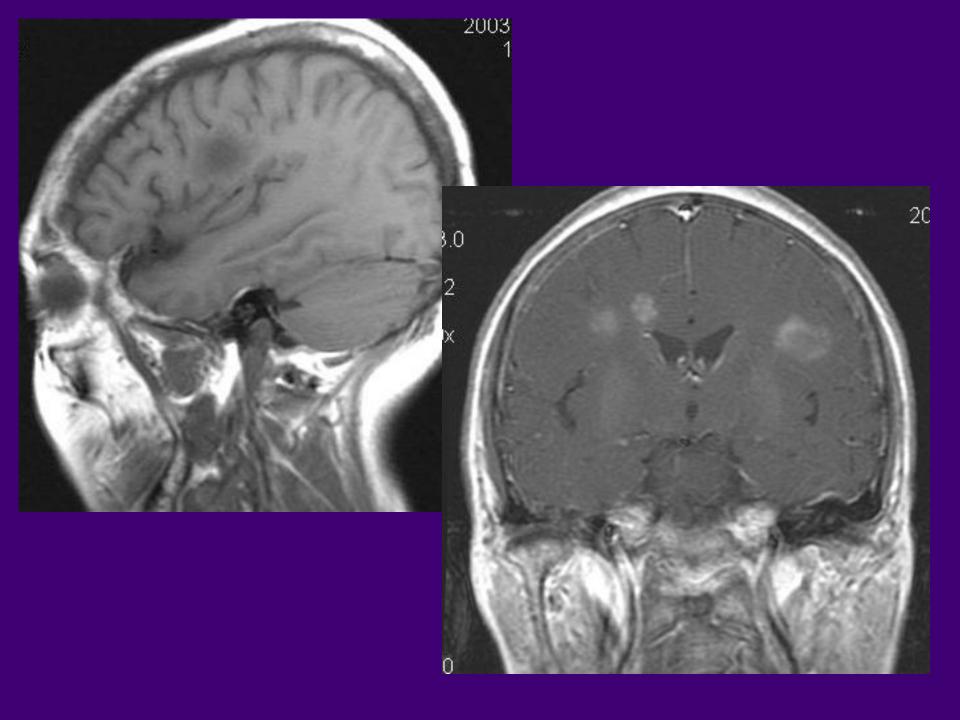


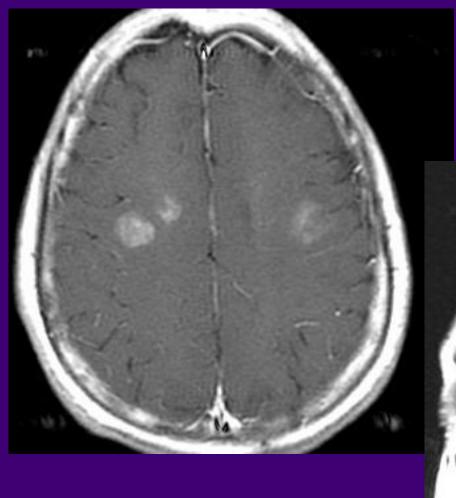


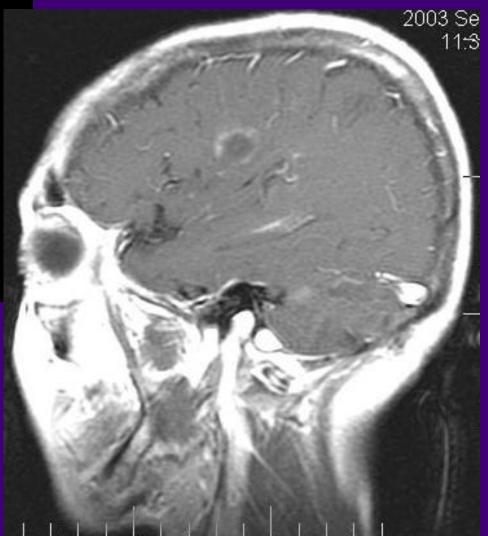












鉴别诊断要点

- 1、年龄在鉴别诊断中的价值:
- (1)、青少年多以室管膜瘤、髓母细胞瘤、颅咽管瘤及松果体瘤为主;
 - (2)、中老年多以星形胶质细胞瘤、脑膜瘤、听神经瘤及转移瘤常见;
 - (3)、脑膜瘤多见于女性,其余肿瘤以男性为主。

※2、位置在鉴别诊断中的价值:

- ◆(1)、小脑半球:儿童以星形胶质细胞瘤常见,成人以转移瘤为主;少见肿瘤有血管母细胞瘤、神经纤维瘤等。
- ◆(2)、桥小脑角区:以听神经瘤最常见, 其次为脑膜瘤、表皮样囊肿。
- ◆(3)、四脑室及其临近区域:四脑室内以室管膜瘤多见,后方则以髓母细胞瘤为主。

位置在鉴别诊断中的价值

(5)、鞍上池及其临近区域: 鞍上池内常见病变为垂体瘤、颅咽管瘤、脑膜瘤、动脉瘤等, 鞍旁以脑膜瘤、动脉瘤为主。

(6)、四叠体池区:以松果体瘤、生殖细胞瘤为主。生殖细胞瘤可异位到三脑室前份

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位置在鉴别诊断中的价值

- ◆(7)、脑实质内:以星形胶质细胞瘤 、转移瘤、淋巴瘤为常见。
- ◆(8)、脑表面:以脑膜瘤为最常见。
- ◆(9)、侧脑室:主要以室管膜瘤、脑膜瘤及脉络膜乳头状瘤常见。
- ◆(10)、大脑镰、血窦旁: 脑膜瘤为主

