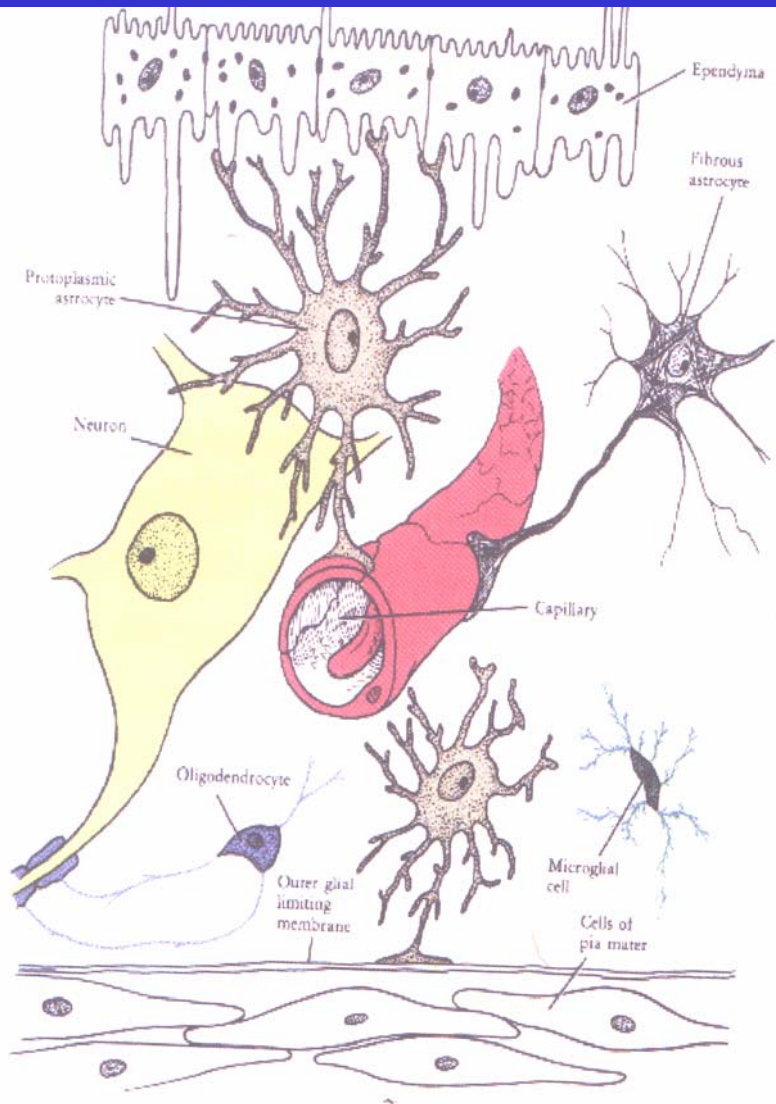


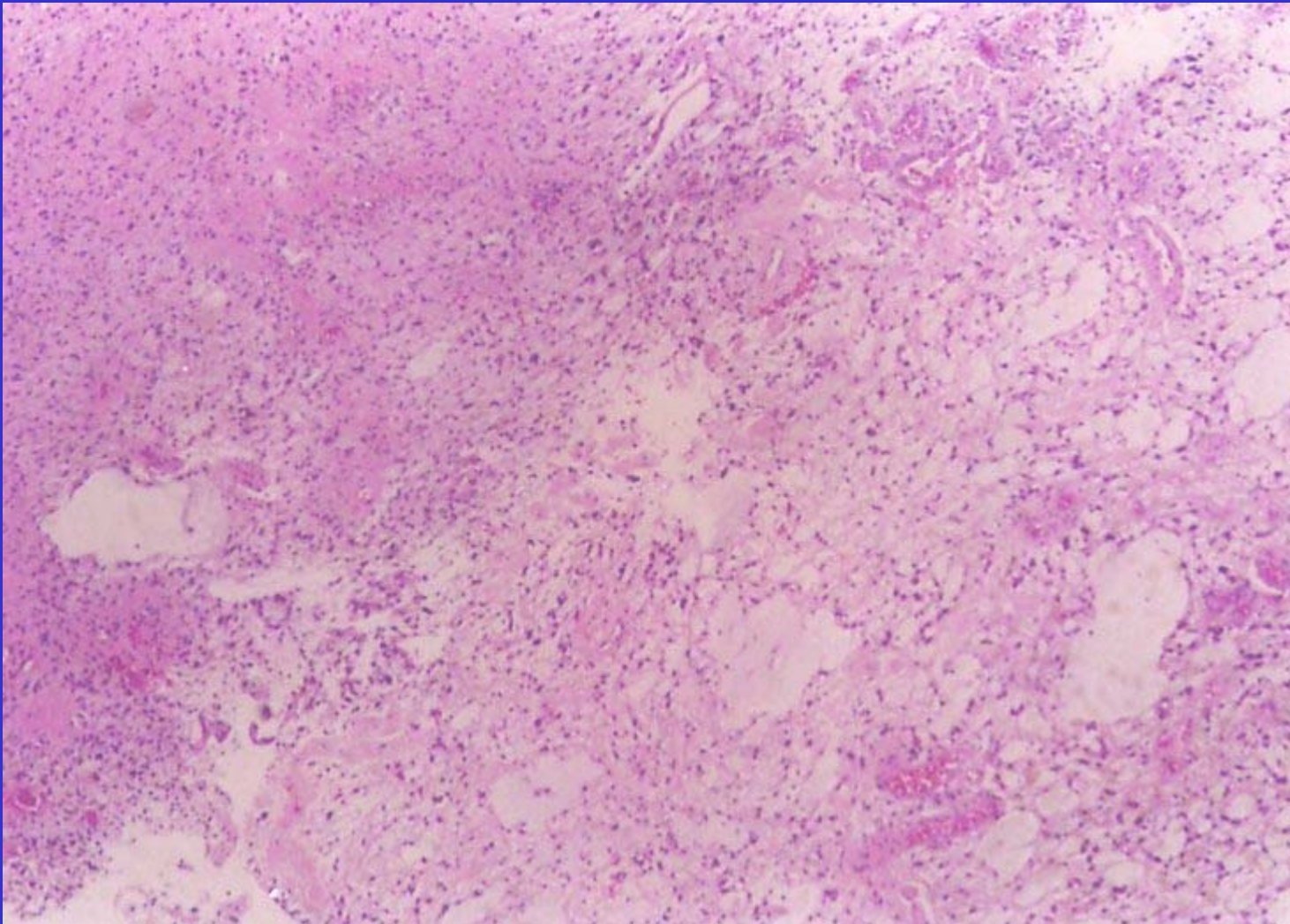
# Recurrent Astrocytoma

Prof. Nadia Mokhtar

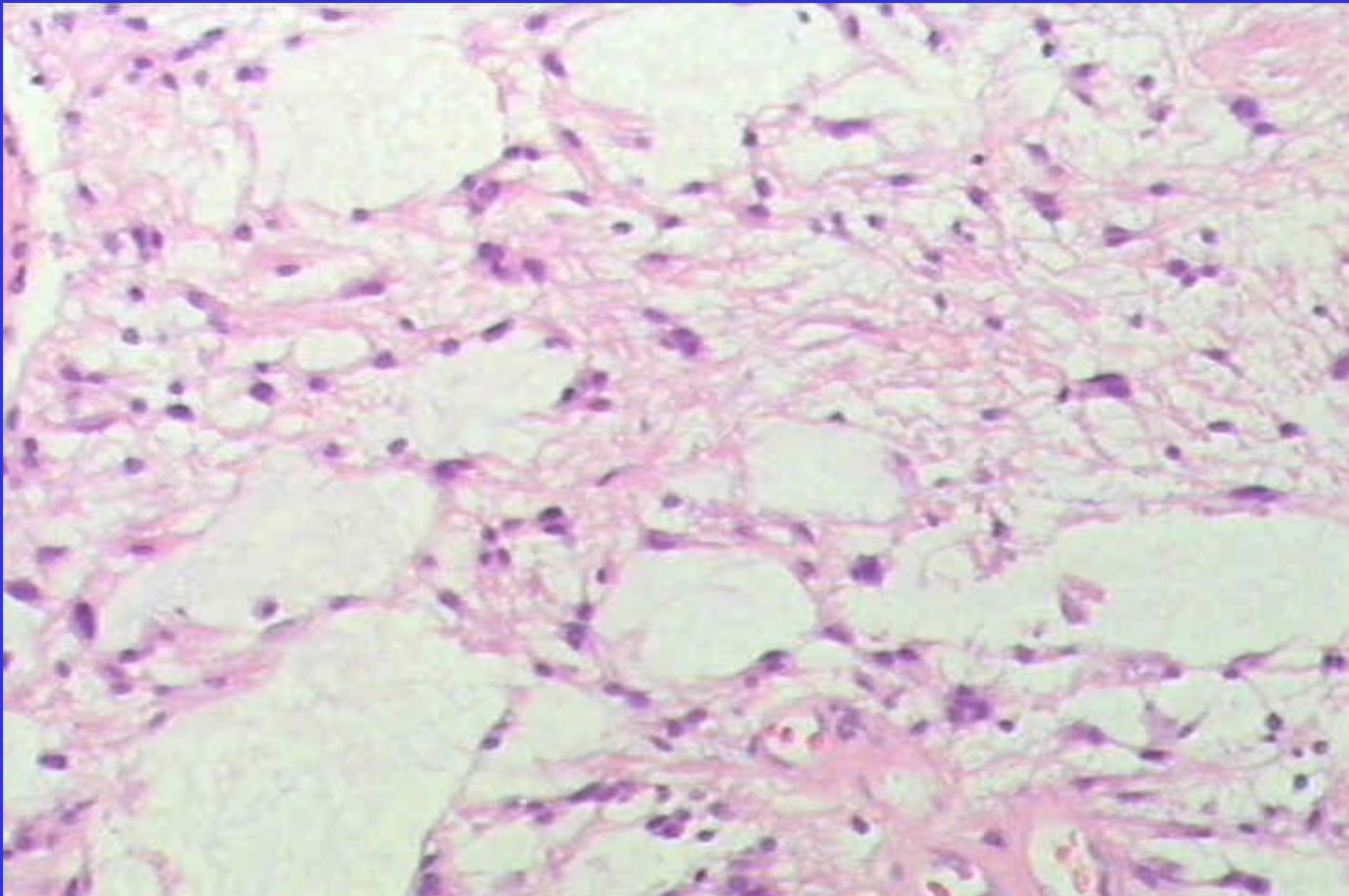


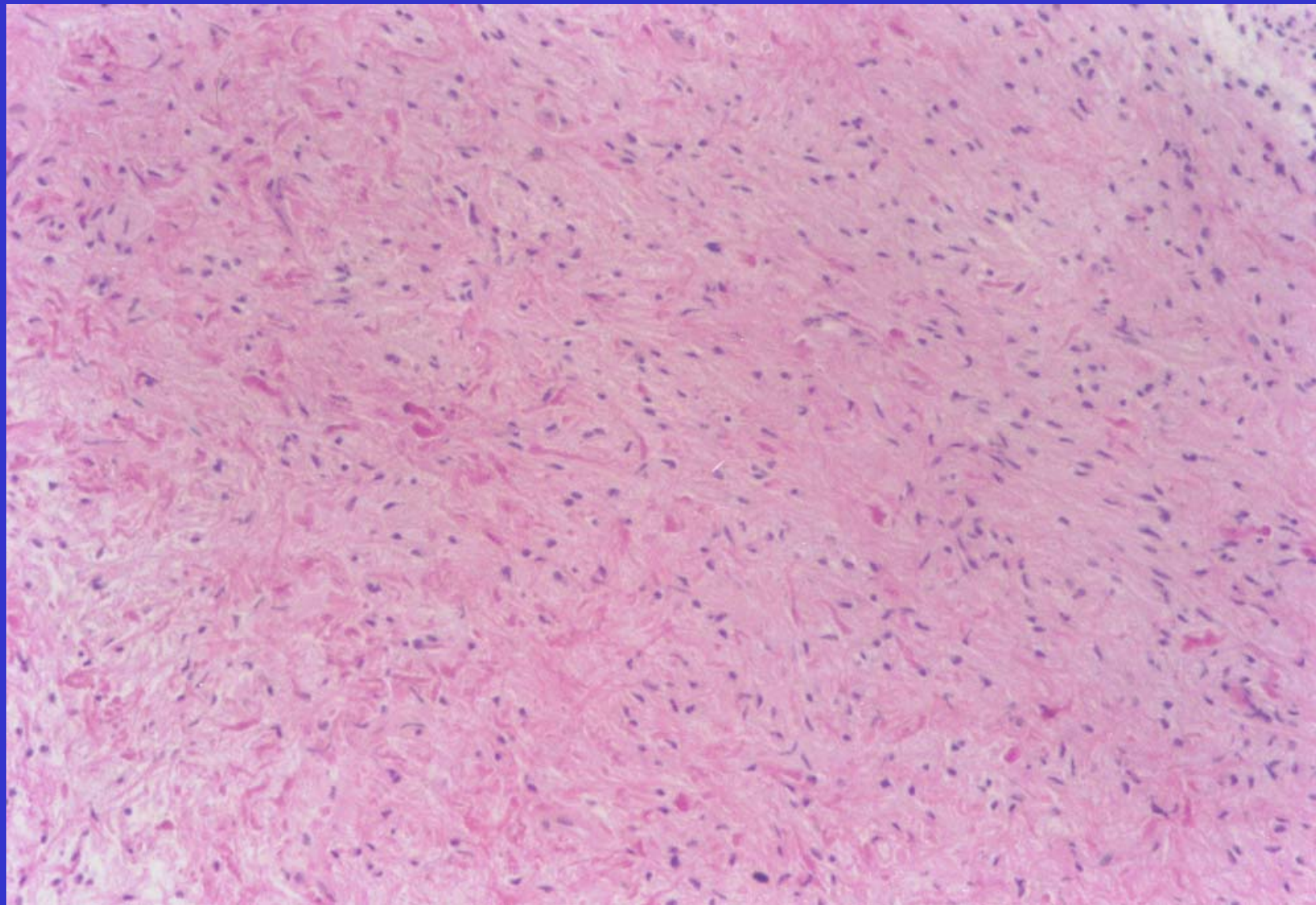
# Classification & GRADING (WHO, 2000)

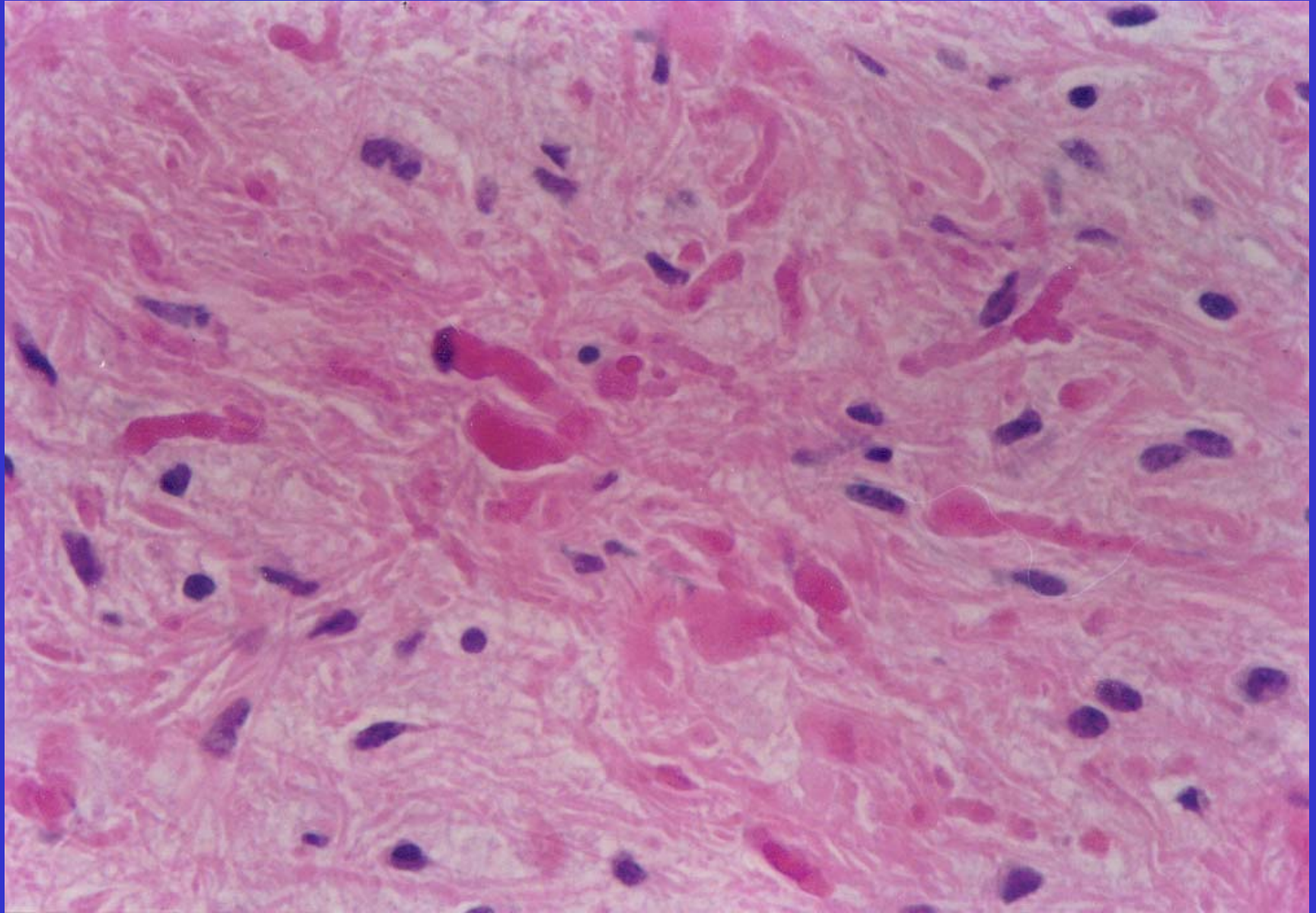
- Grade I: Pilocytic astrocytoma
- Grade II: Astrocytoma
  - \* Fibrillary
  - \* Protoplasmic
  - \* Gemistocytic
- Grade III: Anaplastic astrocytoma
- Grade IV: Glioblastoma multiforme & gliosarcoma

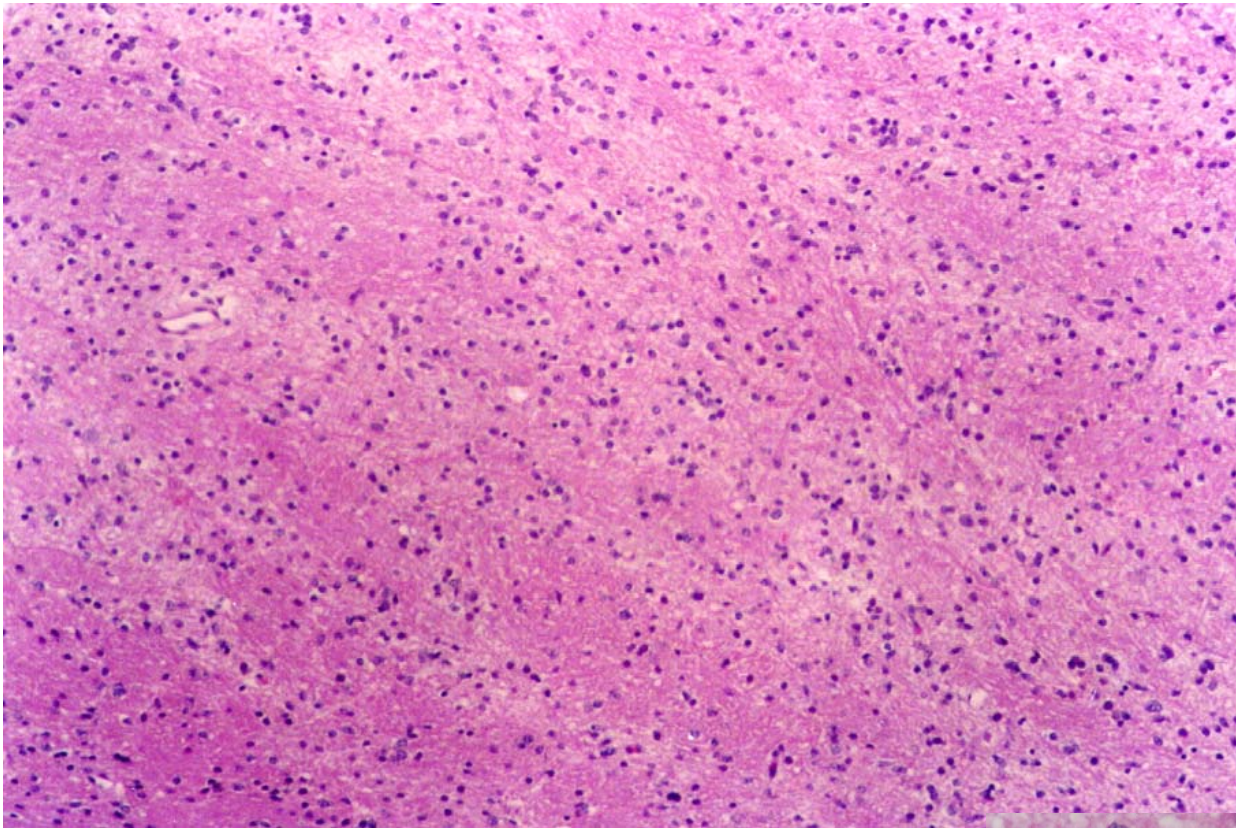


Pilocytic astrocytoma

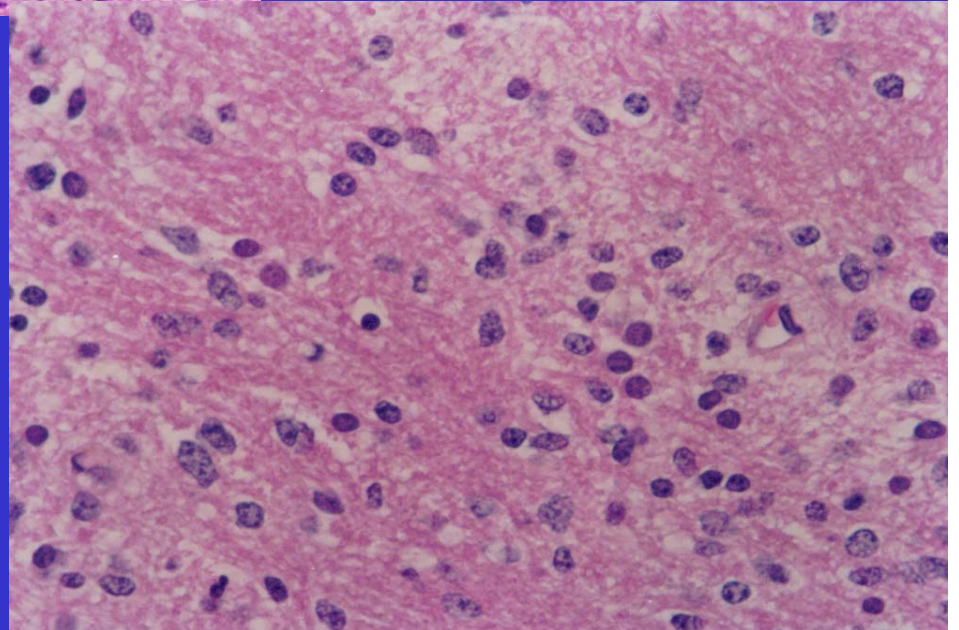


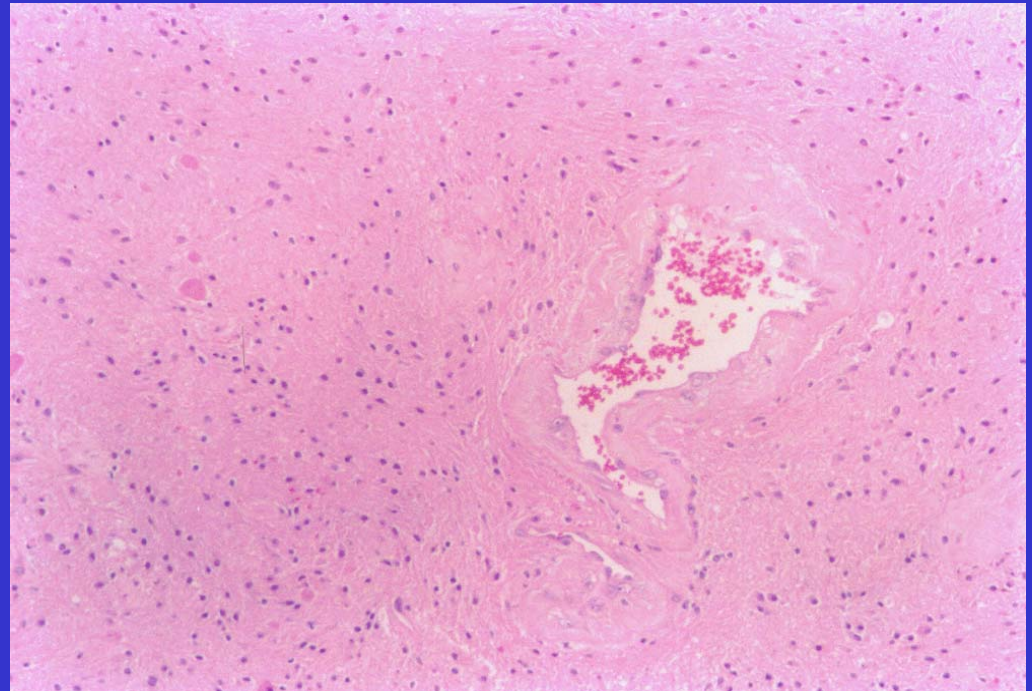
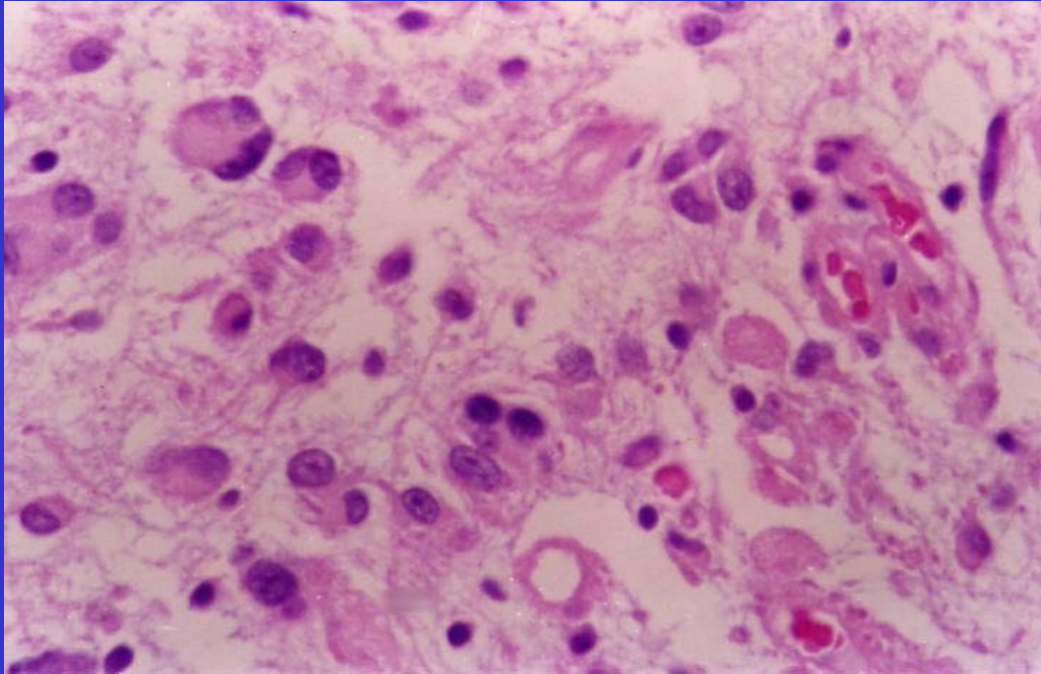


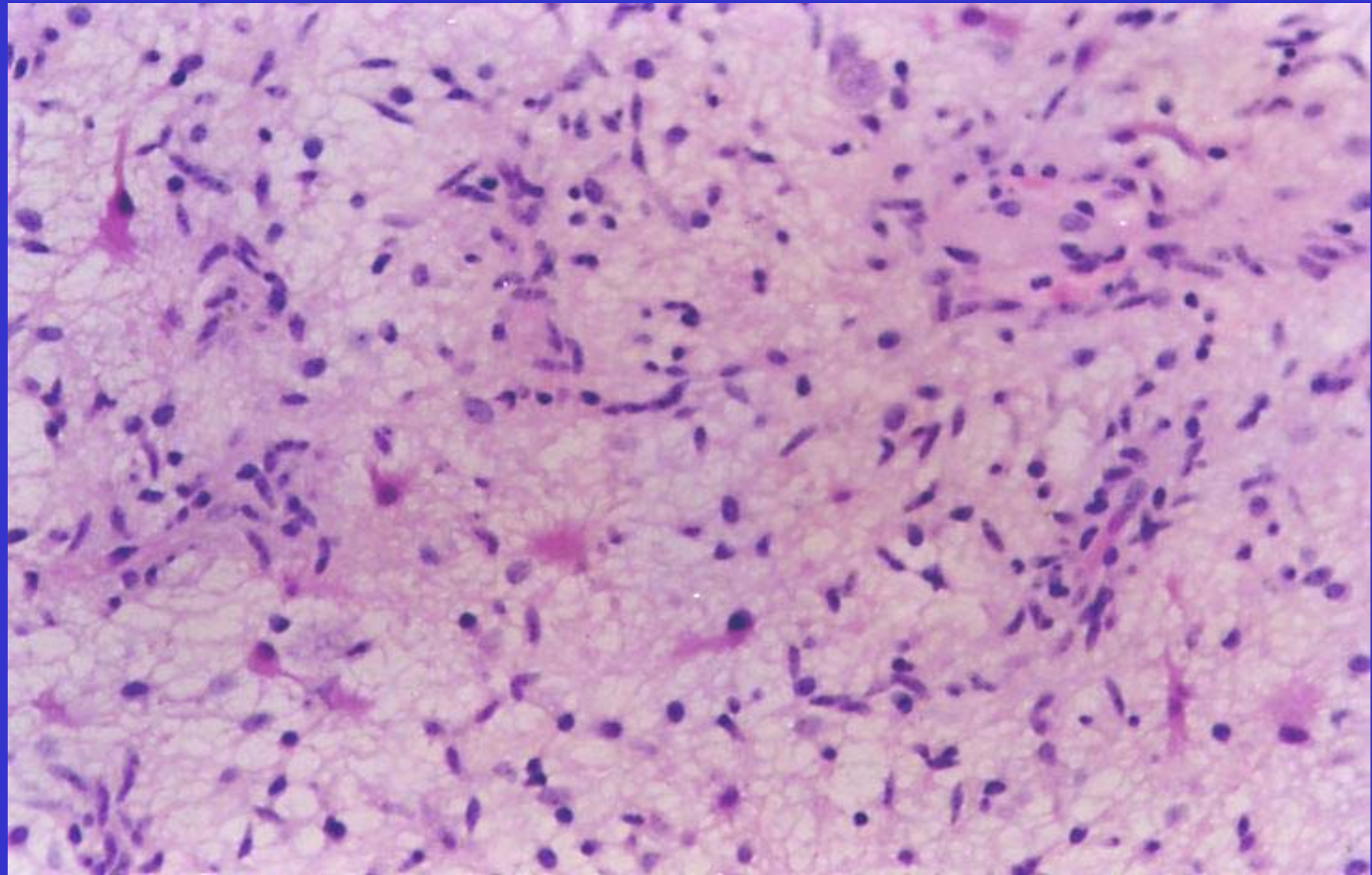


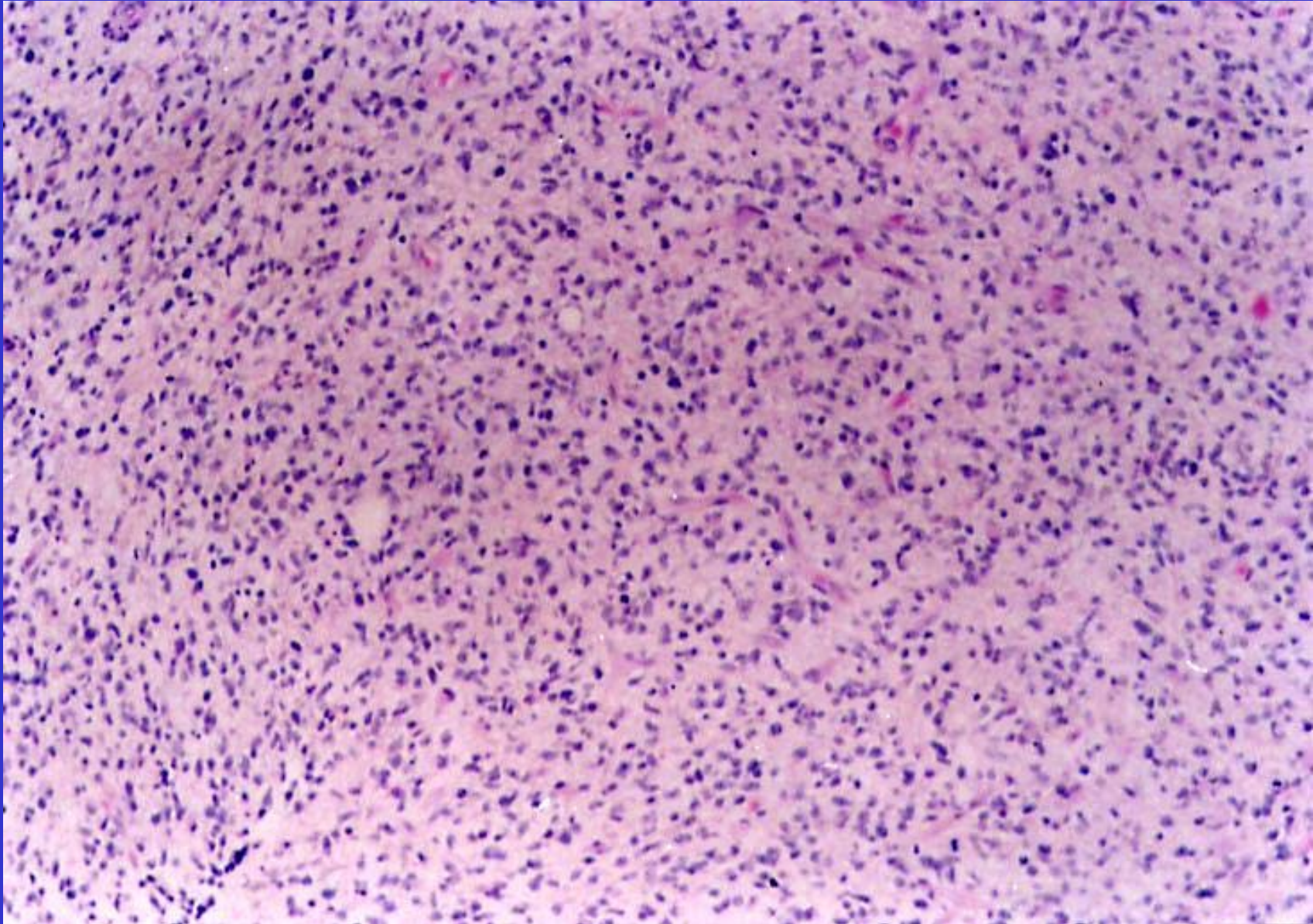


Diffuse astrocytomas  
Grade II  
High cellularity

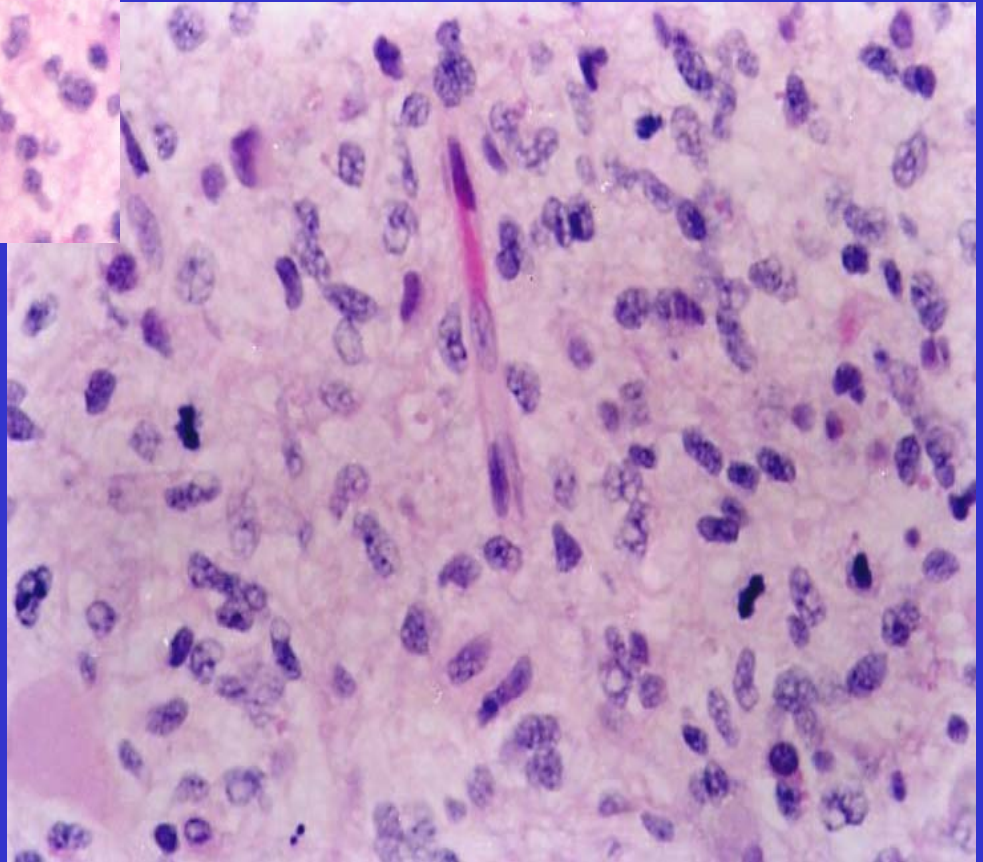
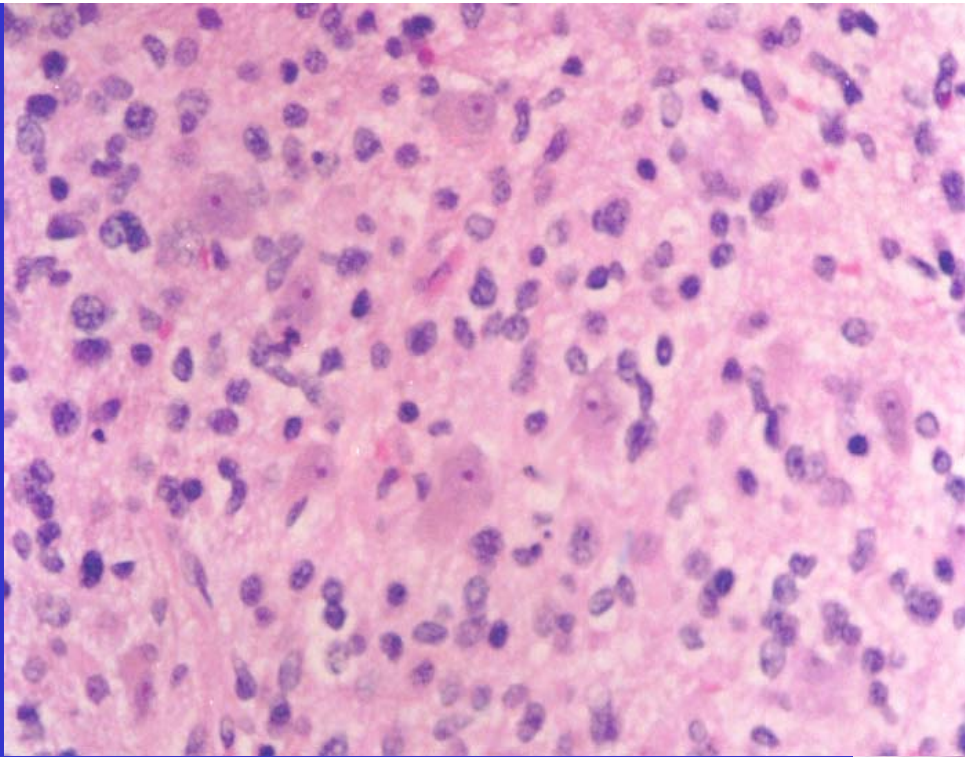


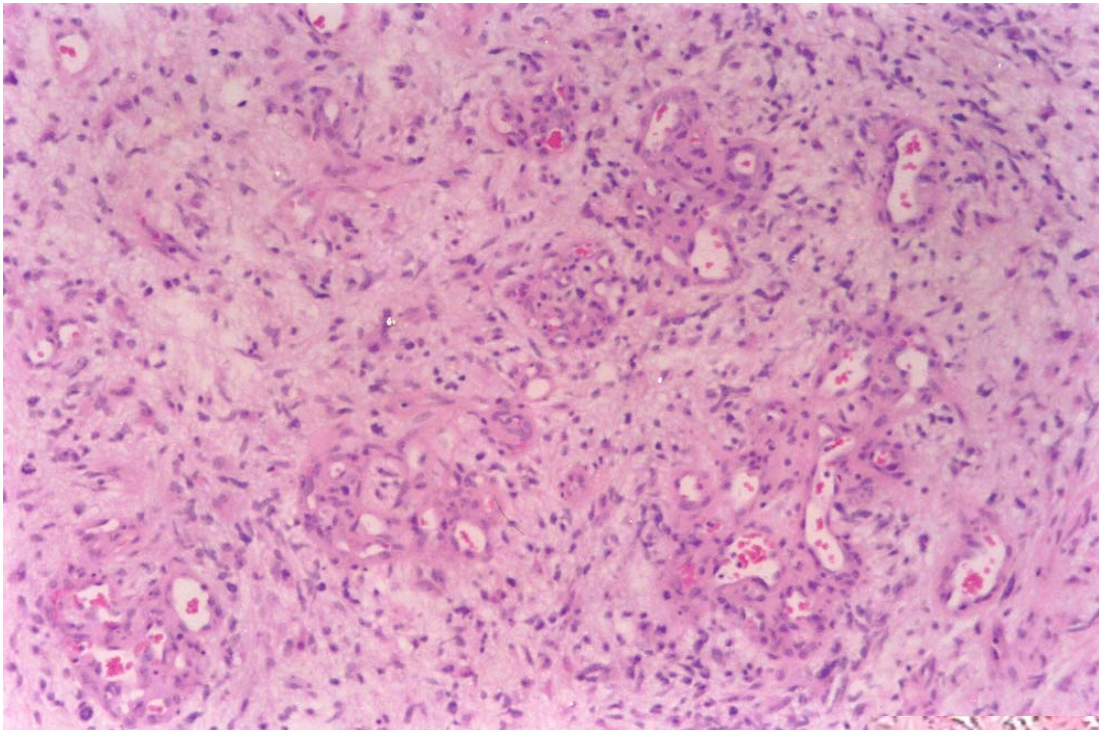




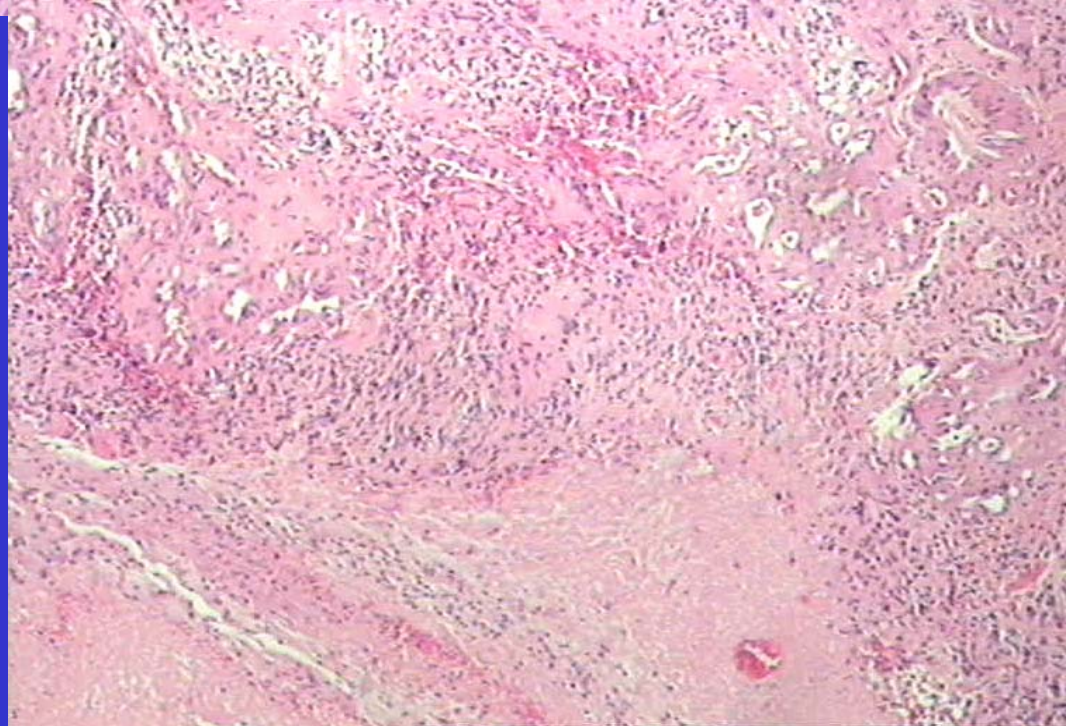


Anaplastic astrocytoma, grade III

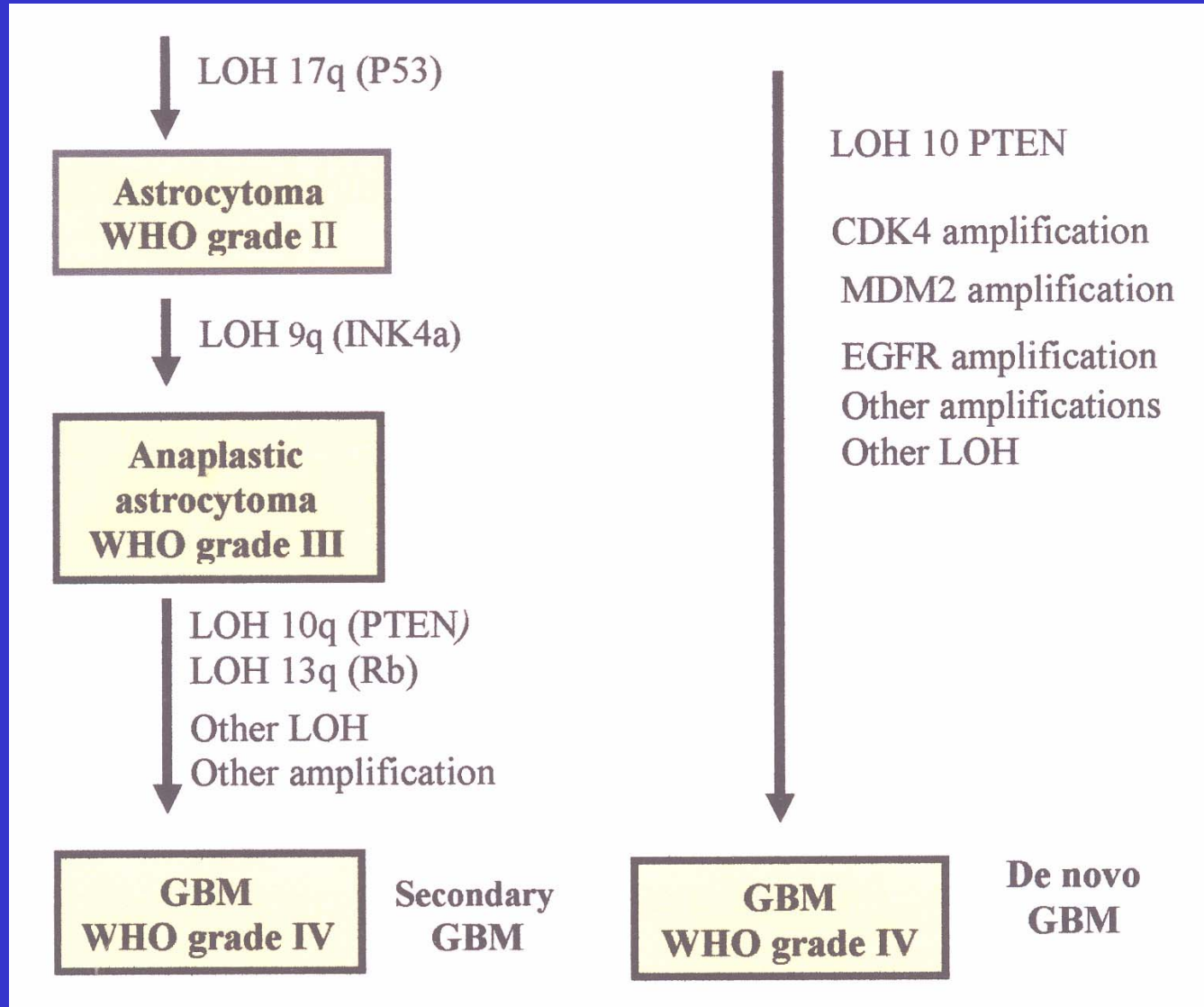




Glioblastoma multiforme  
Grade IV



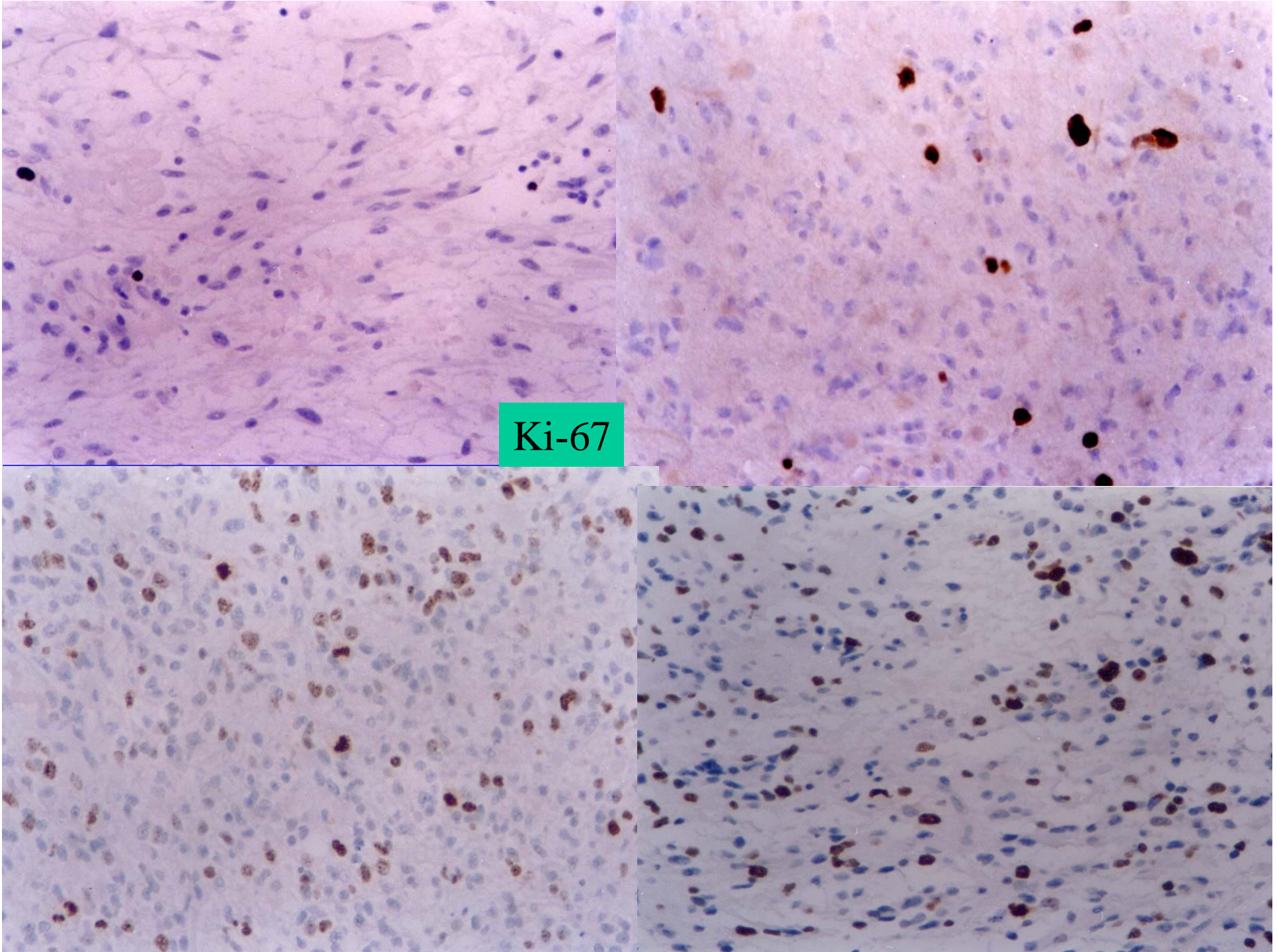
# Molecular Pathogenesis Of Astrocytomas



# Prognostic Factors

## **I: Tumor-related factors:**

- **Histologic grade**
- **Tumor size**
- **Tumor site: pons tumors carry worse prog**
- **Necrosis**
- **Proliferation**
- **Genetic alterations**



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# Prognostic Factors (cont)

## II Host-related Factors

- **Age: younger age**
- **Pre-operative status: performance status**

## III Treatment-related Factors

- **Extent of resection**
- **Adjuvant therapy**