

HELAGO-CZ, s.r.o. Commercial Register maintained by the Regional Court in Hradec Králové Section C, File 17879 Kladská 1082 500 03 Hradec Králové 3

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Fax: 495 220 154 GSM gate: 602 123 096 E-mail: info@helago-cz.cz Web: http://www.helago-cz.cz MP2014 - Astrocytoma
Order code: 4003.MP2014



Cena bez DPH 278,00 Eur
Price with VAT 336,38 Eur

Parameters

Quantitative unit ks

## **Clinical History**

A 73-year-old female was admitted with new left-sided hemiplegia. On further questioning she revealed a 3-month history of headaches, nausea and deteriorating balance. CT brain revealed an inoperable brain tumour. She died 1 week after being admitted.

## **Pathology**

This brain specimen is a coronal section. In the right temporal lobe, a poorly demarcated tumour is present. There is enlargement of the hemispheres and flattening of the gyral pattern. From the posterior aspect of the specimen subfalcine herniation\* is appreciated and the tumour appear less well differentiated with haemorrhagic and necrotic foci. Histology of this tumour showed an astrocytoma, Grade III/IV. \*In subfalcine (or cingulate) herniation, the most common type of brain herniation, the innermost part of the frontal lobe is pushed under part of

the falx cerebri, between the two hemispheres of the brain.

## **Further Information**

Gliomas are the second most common cancer of the central nervous system after meningiomas. The term "glioma" refers to tumours that are histologically similar to normal glial cells i.e. astrocytes, oligodendrocytes and ependymal cells. They arise from a progenitor cell that differentiates down one of the cell lines. Astrocytomas develop from the astrocyte lineage of glial cells. Tumours are staged according to histological differentiation and range from diffuse astrocytoma (Grade II/IV) to anaplastic astrocytoma (Grade III/IV) to glioblastoma (Grade IV). Histological features include the prominent eosinophilic cytoplasm in some astrocytic tumour cells (gemistocytes) as well as a fibrillary background. Astrocytomas occur most commonly between the fourth and sixth decades of life. Tumours usually occur in the cerebral hemispheres but may also occur in the cerebellum, brainstem or spinal cord. They most commonly present with seizures, headaches, nausea and focal neurological deficits depending on area involved. Without treatment Grade III median survival is 18 months. Treatment includes surgical resection, radiotherapy, chemotherapy or a combination thereof, depending on the clinical context.