



Editorial Note on Types of Brain Cancer

Sarilla Gowthami*

Department of Biochemistry, Osmania University, Telangana, India

EDITORIAL NOTE

Brain tumors have quite 120 differing types, consistent with the National brain tumour Society. Some brain tumors, like a glioblastoma multiforme, are malignant and should be fast-growing. Other sorts of brain tumors, like a meningioma, could also be slow-growing and benign.

Primary brain tumors form in brain cells and are categorized by the sort of cell or where within the brain they first develop. as an example, astrocytomas form in star-shaped cells called astrocytes. Pituitary tumors are found within the pituitary at rock bottom of the brain. the foremost common primary brain tumors are called gliomas, which originate within the glial (supportive) tissue. About one-third of all primary brain tumors and other systema nervosum tumors form from glial cells.

Aside from tumors within the brain, cancer may begin in, or spread to, other areas of the central systema nervosum (CNS), like the medulla spinalis or column, or the peripheral nerves. Cancer that develops within the medulla spinalis or its surrounding structures is named spinal cancer. Most tumors of the spine are metastatic tumors, which have spread to the spine from another location within the body.

Astrocytomas, which are the foremost common CNS tumor, arise anywhere within the brain or medulla spinalis, and develop from small, star-shaped cells called astrocytes. In adults, astrocytomas most frequently occur within the cerebrum, the most important a part of the brain. The cerebrum uses sensory information to inform us what's happening around us and the way the body should respond. The cerebrum also controls speech, movement and emotions, also as reading, thinking and learning.

Brain stem gliomas are a kind of astrocytoma that forms within the brain stem, which controls many vital functions, like blood heat , vital sign , breathing, hunger and thirst. The brain stem also transmits all the signals to the body from the brain. The brain stem is within the lowest a part of the brain and connects the brain and medulla spinalis . Tumors during this area are often difficult to treat. Most brain stem gliomas are high-grade astrocytomas.

Glioblastoma multiforme, also referred to as glioblastoma, GBM or grade IV astrocytoma, may be a fast-growing, aggressive sort of CNS tumor that forms on the supportive tissue of the brain. Glioblastoma is that the commonest grade IV brain cancer. Glioblastomas may appear in any lobe of the brain, but they develop more commonly within the frontal and temporal lobes. Glioblastomas usually affect adults.

Meningioma develop within the cells of the membrane that surround the brain and medulla spinalis . Meningiomas (also called meningeal tumors) account for about 15 percent of all intracranial tumors. Most of those tumors are benign (non-cancerous and slow-growing). Meningiomas are typically removed with surgery. Some meningiomas might not need immediate treatment and should remain undetected for years. Most meningiomas are diagnosed in women between 30 and 50 years old.

Aside from astrocytomas, there are variety of various primary brain tumors and other systema nervosum tumors that form from glial cells. They include:

Ependymomas, which usually occur within the lining of the ventricles, or spaces within the brain and round the medulla spinalis . Although ependymomas may develop at any age, these brain cancer tumors are commonest in children and adolescents. Ependymomas also are a standard medulla spinalis tumor.

Oligodendrogliomas develop within the cells that produce myelin, the fatty covering that protects nerves within the brain and medulla spinalis . These tumors are very rare, and typically occur within the cerebrum. they're slow-growing and usually don't spread into surrounding brain tissue. These brain tumors occur most frequently in middle-aged adults. they typically have more favorable outcomes than astrocytomas.

Mixed gliomas have two sorts of tumor cells: oligodendrocytes and astrocytes. this sort of brain tumour most frequently forms within the cerebrum..

Pituitary tumors are lumps that form within the pituitary, alittle gland about the dimensions of a pea that sits inside the skull, slightly below the brain and above the nasal passages. The pituitary produces hormones that control the amount of other

*Correspondence to: Sarilla Gowthami, Department of Biochemistry, Osmania University, India.

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hormones secreted by endocrine glands throughout the body, giving it a crucial role in controlling key body functions and therefore the hormonal system.

The pituitary is formed from four parts: the anterior (front) lobe and posterior (back) lobe, which function independently of every other, also because the intermediate area between the 2 lobes and therefore the stalk that connects the pituitary to the interbrain (which includes the thalamus, hypothalamus and epithalamus). Most pituitary tumors form within the anterior lobe. They very rarely develop within the posterior lobe. Pituitary tumors represent 9 to 12 percent of all primary brain tumors.

The overwhelming majority of pituitary tumors are pituitary adenomas, benign growths that don't spread beyond the skull. albeit these tumors aren't cancerous, they often cause other medical issues because they're located near the brain and should cause the pituitary to supply excess hormones.

Pituitary cancers, called pituitary carcinomas, are very rare—only a couple of hundred are documented within the us , consistent with the American Cancer Society. Because pituitary cancers and benign adenomas look very similar under a microscope, the carcinomas are often diagnosed only they spread to other parts of the body.

Craniopharyngiomas develop within the area of the brain near the pituitary (the main endocrine that produces hormones that control other glands and lots of body functions, especially growth) near the hypothalamus. These brain tumors are usually

benign. However, they'll sometimes be considered malignant because they'll create pressure on, or damage, the hypothalamus and affect vital functions (such as blood heat , hunger and thirst). These tumors occur most frequently in children and adolescents, or adults over age 50.

Germ cell tumors arise from developing sex (egg or sperm) cells, also referred to as germ cells. the foremost common sort of reproductive cell tumor within the brain is that the germinoma. apart from the brain, germinomas can form within the ovaries, testicles, chest and abdomen. Most reproductive cell tumors occur in children.

Pineal region tumors occur in or round the pineal body , a little organ located within the center of the brain. The pineal body produces melatonin, a hormone that plays a crucial role within the sleep-wake cycle. These brain cancer tumors are often slow growing (pineocytoma) or fast growing (pineoblastoma). Since the pineal region is extremely difficult to succeed in , it requires a high level of surgical expertise to get rid of these tumors.

Medulloblastomas are fast-growing brain tumors that develop from the neurons of the cerebellum. The cerebellum is that the lower back of the brain and controls movement, balance and posture. These tumors are usually found in children or young adults.

Primary CNS lymphomas develop in lymph tissue of the brain or medulla spinalis . this sort of brain tumour is typically found in people whose immune systems are compromised.