

# Glioma Timeline

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1846	Bigelow and Morton	general surgical anesthesia
1861	Broca	speech localisation
1867	Lister	antiseptic surgery
1870	Fritsch and Hitzig	electrical stimulation of the cortex in animals
1873	Ferrier	motor localisation in animals
1874	Bartholow	cortical localisation using electrical stimulation in man
1884	Bennett and Godlee	first glioma removed using cerebral localisation
1893	Horsley	external cranial decompression for tumours
1905	Cushing	subtemporal decompression for tumours
1908	Cushing	local anesthesia for removal of glioma
1911	Cushing	silver clips for hemostasis
1918	Dandy	ventriculography
1919	Weed and McKibben	hypertonic saline (anti-edema)
1920	Frazier; others	brachytherapy for intracranial tumours
1926	Bailey and Cushing	glioma classification based on histology and prognosis
1926	Bailey and Cushing; others	external beam radiotherapy for gliomas
1927	Moniz	arteriography
1928	Bovie and Cushing	Bovie electrocautery
1928	Dandy	hemispherectomy for glioma
1936	McKenzie	dural closure in glioma surgery
1937	Putnam and Merritt	phenytoin (anticonvulsant)
1937	Penfield and Boldrey	motor and sensory homunculus in man
1940	Scherer	secondary structure of malignant glioma
1949	Kernohan	four-level pathological classification of gliomas
1950	Ringertz	grading scheme using necrosis to define glioblastoma
1958	Javid	urea (anti-edema)
1961	Galicich and French	corticosteroids (anti-edema)
1961	Wise and Chater	mannitol (anti-edema)
1969	Yasargil	microneurosurgery
1973	Hounsfield	CAT scan images
1978	Brain Tumor Study Group	randomised trial - benefit of radiation for glioma
1978	Brain Tumor Study Group	randomised trial - benefit of BCNU for glioma
1980	Andrew; others	magnetic resonance brain images
1980	Hochberg and Pruitt	shift from whole brain to local radiation for malignant glioma
1986	Kelly	computer-aided stereotactic resection of tumours
1988	Cairncross and Macdonald	chemotherapy for oligodendroglioma
1995	Brem	randomised trial - local chemotherapy using polymer wafers
2005	EORTC and NCIC	randomised trial - concomitant radiotherapy and temozolomide with adjuvant temozolomide for malignant glioma