**Table 1. Reported cases of intracranial collision tumors in world literature**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Sl no*** | ***Author*** | ***Country*** | ***Number of cases*** | ***Age (Years)*** | ***Gender*** | ***Location of tumor*** | ***Components*** |
| 1 | Kim et al.1997 **[1]** | South Korea | 1 | 18 | Female | CP angle mass extending to left middle cranial fossa | Schwannoma and meningioma |
| 2 | Chahlavi et al. 2005 **[2]** | USA | 1 | 67 | Male | Right posterior frontal dural-based lesion | Renal cell carcinoma and meningioma |
| 3 | Jun et al.2006 **[3]** | USA | 1 | 56 | Female | Right frontal bilobed mass, two regions of interest, on the anterior and posterior lobes of the lesion | Typical meningioma and metastatic breast carcinoma |
| 4 | Nestler et al. 2007 **[4]** | Germany | 3 | 68 | Female; | Left cerebellar mass lesion together with a small left occipital meningioma | Glioblastoma WHO IV and meningioma |
|  |  |  |  | 72 | Female | Left parasagittal meningioma in close vicinity to a contrast-enhancing mass lesion | Transitional meningioma WHO I ˚ and glioblastoma WHO IV |
|  |  |  |  | 49 | Male | Left frontal mass lesion, two tumors in close vicinity to each other | Fibrous meningioma WHO I˚ and aglioblastoma WHO IV |
| 5 | Palka et al. 2008 **[5]** | USA | 1 | 54 | Female | Solitary left frontal lobe lesion | Melanoma with metastatic small-cell lung cancer |
| 6 | Dewan et al.2009 **[6]** | USA | 1 | 72 | Male | Left cerebellar hyperdense mass | Heterogeneous collision tumor composedof both metastatic esophageal carcinoma and prostatecarcinoma |
| 7 | Binello et al. 2010 **[7]** | USA | 1 | 40 | Male | Right frontal convexity tumor | Collision tumor:hemangiopericytoma andmeningioma |
| 8 | Gkekas et al.2012 **[8]** | Greece | 1 | 63 | Male | Right frontal lobe | Anaplastic oligodendroglioma with meningothelial-fibrousmeningioma |
| 9 | Aisner et al. 2013 **[9]** | USA | 3 | 20 | Male | Right anterior cranial fossa | PXA with low-grade glioneuronal tumor |
|  |  |  |  | 24 | Female | Left frontal lobe mass | Papillaryglioneuronal tumor with PXA |
|  |  |  |  | 22 | Female | Left parieto-occipital tumor | PXA with glioneuronal tumor |
| 10 | Silveira et al. 2024 **[10]** | USA | 1 | 67 | Male | Right frontal lobe mass | Glioblastoma, isocitrate dehydrogenase wild type with subependymoma. |
| 11 | Sundarakumar et al. 2014 **[11]** | USA | 1 | 26 | Male | Posteromedialright occipital lobe, | Metastatic choriocarcinomaas a collision metastasis to the AVM. |
| 12 | Ruiz et al. 2015 **[12]** | Spain | 2 | 86 | Male | Right frontal mass | WHO grade IV glioblastoma with meningioma |
|  |  |  |  | 22 | Female | Right frontal cortico-subcortical infiltratingtumor | WHO grade III anaplastic astrocytoma with WHO grade I secretory meningioma |
| 13 | Zhang et al. 2015 **[13]** | China | 1 | 45 | Male | An intraventricular lesion, located in the left lateral ventricle trigone; | Mixed glioma (oligodendrocytes-astrocytoma) (WHO class II) and malignant meningioma(WHO class II) |
| 14 | Kochanski et al.2016 **[14]** | USA | 1 | 79 | Female | Mass in the right parietooccipital region with apparentinvasion of the underlying right parietal brain parenchyma |  Papillary meningioma, WHO Grade III with anaplastic meningioma, WHO Grade III. |
| 15 | Muzumdar et al.2015 **[15]** | India | 1 | 46 | Female | Cerebellopontine angle tumor, images suggestive of a vestibular schwannoma, a second lesion was seen in the right cerebellum | Vestibular schwannoma and tuberculoma |
| 16 | Dubovoy et al.2017 **[16]** | Russia | 1 | 63 | Female | Right frontal region | Meningioma (meningotheliomatous variant of the structure, Grade I) and vascular cavernous malformation. |
| 17 | Kearney et al. 2017 **[17]** | Ireland | 1 | 61 | Male | Left temporal, parietal, and occipital lobes. | Anaplastic oligodendroglioma (WHO grade III) and intraventricular fibroblastic meningioma (WHO grade I). |
| 18 | Naik et al. 2018 **[18]** | India | 1 | 36 | Male | Two different locations. Subcorticalregion of the right frontal lobe and sellar and suprasellar region. | Anaplasticastrocytoma, grade III (WHO, 2007) and pituitaryadenoma with apoplexy |
| 19 | Paolini et al. 2018 **[19]** | USA | 1 | 17 | Male | Left posterior quadrant mass abutting the dura | Atypical meningioma (WHO grade II) and CAPNON |
| 20 | Syed et al. 2018 **[20]** | USA | 2 | 71 | Male | Right parieto-occipital mass |  Intraventricular meningioma component as well as a glioblastoma |
|  |  |  |  | 61 | Male | Right-sided parasagittal mass | Meningioma with intra-tumoral metastasis of patient’s adenocarcinoma (Primary lung tumor) |
| 21 | Tourne et al. 2018 **[21]** | France | 1 | 44 | Female | Right intra-axial frontal mass | Diffuse Astrocytoma and Pleomorphic Xanthoastrocytoma grade III |
| 22 | Yan et al.2018 **[22]** | China | 1 | 50 | Male | Left-frontal cerebral falx | Extranodal NK/T cell lymphoma, nasal type colliding with meningioma |
| 23 | Zhang et al. 2018 **[23]** | China | 1 | 66 | Female | Rightcerebral hemisphere | Meningioma(WHO I) and glioblastoma (GBM) |
| 24 | D’Agostino et al.2019 **[24]** | Lebanon | 1 | 16 | Male | Right-sided non-enhancing lesion of the lateral ventricle at the foramen of Monro | Sub-ependymoma and the other DNET |
| 25 | Malli et al.2019 **[25]** | Greece | 1 | 64 | Male | Suprasellar, not well-delineated tumor expanded into the third ventricle | Pilocytic Astrocytoma and Prolactinoma |
| 26 | Chamberlin et al.2021 **[26]** | USA | 1 | 42 | Female | Left parieto-occipital periventricular region | Glioblastoma (WHO grade IV) and a meningioma (WHO grade I) |
| 27 | Merrill et al. 2021 **[27]** | USA | 1 | 78 | Female | Right sphenoid wing lesion. | Metastatic uterine papillary serous carcinoma and meningioma |
| 28 | Ashizawa et al. 2021 **[28]** | Japan | 1 | 46 | Female | Vermis of the cerebellum | Collision tumor of SFT/HPC and meningioma |
| 29 | Matyja et al. 2021 **[29]** |  | 1 | 31 | Female | Petro-clival region | Consisting of chordoma and meningioma |
| 30 | Lin et al.2022 **[30]** | Taiwan | 1 | 56 | Female | Large left frontal brain mass | Clear cell atypical meningioma (WHO grade II) with IDH-mutantglioblastoma |
| 31 | Zacharewski et al.2022 **[31]** | USA | 1 | 72 | Female | Left parasagittal region, posterior frontoparietal and occipital areas | De Novo Glioblastoma with Meningioma |
| 32 | Nedeljkovic et al.2023 **[32]** | Serbia | 1 | 17 | Male | Right frontal lobe closely related to dura | Ganglioglioma (WHO gr-I) and supratentorial ependymoma (WHO gr-III) |
| 33 | Sobstyl et al. 2023 **[33]** | Poland | 1 | 64 | Male | Right hemisphere | GB, IDH-wildtype, CNS WHO G4 with meningothelial meningioma, CNS WHO G1 |

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