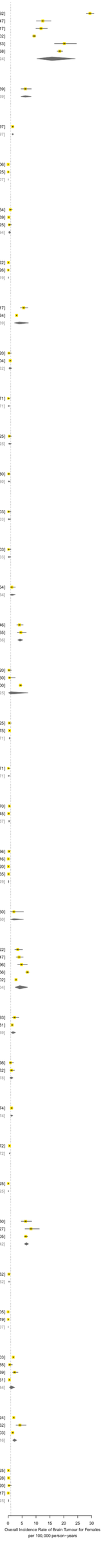| Study | Country | Tumour Main and Subcategory | Incidence Rate | 95% CI |
|---|---|---|---|---|
| **All brain tumors; All** | | | | |
| D'Alessandro, 1995 | Italy | All brain tumors; All | 29.47 | [28.09; 30.92] |
| Dobec-Meic, 2006 | Croatia | All brain tumors; All | 12.50 | [10.10; 15.47] |
| Kuratsu, 2001 | Japan | All brain tumors; All | 11.86 | [ 9.93; 14.17] |
| Ligant, 2000 | Estonia | All brain tumors; All | 9.37 | [ 8.76; 10.02] |
| Poberaskin, 2000 | England | All brain tumors; All | 20.24 | [16.63; 24.63] |
| Wohrer, 2009 | Austria | All brain tumors; All | 18.60 | [17.58; 19.68] |
| Pooled Totals | | | 15.80 | [10.30; 24.24] |
| *Heterogeneity: I²=squared=99.4%, Q=739.3, df=5, p=0.0001* | | | | |
| **All brain tumors; Nonepithelial** | | | | |
| Dobec-Meic, 2006 | Croatia | All brain tumors; Nonepithelial | 6.20 | [ 4.58; 8.39] |
| Pooled Totals | | | 6.20 | [ 4.58; 8.39] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **All brain tumors; NOS** | | | | |
| Wohrer, 2009 | Austria | All brain tumors; NOS | 1.65 | [ 1.38; 1.97] |
| Pooled Totals | | | 1.65 | [ 1.38; 1.97] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Choroid plexus tumors; All** | | | | |
| Lee, 2010 | Korea | Choroid plexus tumors; All | 0.03 | [ 0.01; 0.06] |
| Wohrer, 2009 | Austria | Choroid plexus tumors; All | 0.06 | [ 0.01; 0.25] |
| Pooled Totals | | | 0.03 | [ 0.02; 0.07] |
| *Heterogeneity: I²=squared=0%, Q=0.7, df=1, p=0.4028* | | | | |
| **CNS lymphoma; All** | | | | |
| Elia-Pasquet, 2004 | France | CNS lymphoma; All | 0.80 | [ 0.42; 1.54] |
| Kuratsu, 2001 | Japan | CNS lymphoma; All | 0.27 | [ 0.19; 0.39] |
| Dobec-Meic, 2006 | Croatia | CNS lymphoma; All | 0.40 | [ 0.13; 1.25] |
| Pooled Totals | | | 0.43 | [ 0.20; 0.94] |
| *Heterogeneity: I²=squared=73.7%, Q=8.2, df=2, p=0.0164* | | | | |
| **Germ cell tumors; All** | | | | |
| Kuratsu, 2001 | Japan | Germ cell tumors; All | 0.12 | [ 0.06; 0.22] |
| Wohrer, 2009 | Austria | Germ cell tumors; All | 0.06 | [ 0.01; 0.26] |
| Pooled Totals | | | 0.11 | [ 0.06; 0.19] |
| *Heterogeneity: I²=squared=0%, Q=0.7, df=1, p=0.395* | | | | |
| **Gliomas; All** | | | | |
| Elia-Pasquet, 2004 | France | Gliomas; All | 5.60 | [ 4.37; 7.17] |
| Christensen, 2003 | Denmark | Gliomas; All | 3.06 | [ 2.88; 3.24] |
| Pooled Totals | | | 4.09 | [ 2.26; 7.39] |
| *Heterogeneity: I²=squared=93.4%, Q=213, df=1, p=0.0001* | | | | |
| **Gliomas; Ependymoma** | | | | |
| Dobec-Meic, 2006 | Croatia | Gliomas; Ependymoma | 0.30 | [ 0.07; 1.20] |
| Wohrer, 2009 | Austria | Gliomas; Ependymoma | 0.76 | [ 0.56; 1.04] |
| Pooled Totals | | | 0.62 | [ 0.29; 1.32] |
| *Heterogeneity: I²=squared=38.9%, Q=1.6, df=1, p=0.201* | | | | |
| **Gliomas; Grade I − Pilocytic asstrocytoma** | | | | |
| Elia-Pasquet, 2004 | France | Gliomas; Grade I − Pilocytic asstrocytoma | 0.10 | [ 0.01; 0.71] |
| Pooled Totals | | | 0.10 | [ 0.01; 0.71] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Gliomas; Grade III − Astrocytoma** | | | | |
| Dobec-Meic, 2006 | Croatia | Gliomas; Grade III − Astrocytoma | 0.40 | [ 0.13; 1.25] |
| Pooled Totals | | | 0.40 | [ 0.13; 1.25] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Gliomas; Grade III − Not specified** | | | | |
| Elia-Pasquet, 2004 | France | Gliomas; Grade III − Not specified | 0.20 | [ 0.05; 0.80] |
| Pooled Totals | | | 0.20 | [ 0.05; 0.80] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Gliomas; Grade III − Oligoastrocytomas grade** | | | | |
| Dobec-Meic, 2006 | Croatia | Gliomas; Grade III − Oligoastrocytomas grade | 0.15 | [ 0.02; 1.03] |
| Pooled Totals | | | 0.15 | [ 0.02; 1.03] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Gliomas; Grade III − Oligodendroglioma** | | | | |
| Dobec-Meic, 2006 | Croatia | Gliomas; Grade III − Oligodendroglioma | 0.15 | [ 0.02; 1.03] |
| Pooled Totals | | | 0.15 | [ 0.02; 1.03] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Gliomas; Grade III and IV − Not specified** | | | | |
| Kuratsu, 2001 | Japan | Gliomas; Grade III and IV − Not specified | 1.36 | [ 0.70; 2.64] |
| Pooled Totals | | | 1.36 | [ 0.70; 2.64] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Gliomas; Grade IV − Glioblastoma** | | | | |
| Elia-Pasquet, 2004 | France | Gliomas; Grade IV − Glioblastoma | 4.10 | [ 3.08; 5.46] |
| Dobec-Meic, 2006 | Croatia | Gliomas; Grade IV − Glioblastoma | 4.60 | [ 3.23; 6.55] |
| Pooled Totals | | | 4.29 | [ 3.44; 5.36] |
| *Heterogeneity: I²=squared=0%, Q=0.2, df=1, p=0.6199* | | | | |
| **Gliomas; Grade NOS − Astrocytoma** | | | | |
| Dobec-Meic, 2006 | Croatia | Gliomas; Grade NOS − Astrocytoma | 0.30 | [ 0.07; 1.20] |
| Kuratsu, 2001 | Japan | Gliomas; Grade NOS − Astrocytoma | 0.52 | [ 0.10; 2.60] |
| Wohrer, 2009 | Austria | Gliomas; Grade NOS − Astrocytoma | 4.44 | [ 3.94; 5.00] |
| Pooled Totals | | | 0.98 | [ 0.13; 7.25] |
| *Heterogeneity: I²=squared=93.3%, Q=21, df=2, p=0.0001* | | | | |
| **Gliomas; Grade NOS − Oligodendroglioma** | | | | |
| Dobec-Meic, 2006 | Croatia | Gliomas; Grade NOS − Oligodendroglioma | 0.40 | [ 0.13; 1.25] |
| Wohrer, 2009 | Austria | Gliomas; Grade NOS − Oligodendroglioma | 0.51 | [ 0.35; 0.75] |
| Pooled Totals | | | 0.50 | [ 0.35; 0.71] |
| *Heterogeneity: I²=squared=0%, Q=0.2, df=1, p=0.6922* | | | | |
| **Hemangioblastomas; All** | | | | |
| Elia-Pasquet, 2004 | France | Hemangioblastomas; All | 0.10 | [ 0.01; 0.71] |
| Pooled Totals | | | 0.10 | [ 0.01; 0.71] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Medullo/PNETs; All** | | | | |
| Farinotti, 2000 | Italy | Medullo/PNETs; All | 0.42 | [ 0.25; 0.70] |
| Wohrer, 2009 | Austria | Medullo/PNETs; All | 0.24 | [ 0.13; 0.45] |
| Pooled Totals | | | 0.33 | [ 0.19; 0.57] |
| *Heterogeneity: I²=squared=46.1%, Q=1.9, df=1, p=0.1732* | | | | |
| **Medullo/PNETs; Medulloblastoma** | | | | |
| Alston, 2003 | England | Medullo/PNETs; Medulloblastoma | 0.33 | [ 0.20; 0.56] |
| Kuratsu, 2001 | Japan | Medullo/PNETs; Medulloblastoma | 0.08 | [ 0.04; 0.16] |
| Lee, 2010 | Korea | Medullo/PNETs; Medulloblastoma | 0.14 | [ 0.10; 0.20] |
| Ligant, 2000 | Estonia | Medullo/PNETs; Medulloblastoma | 0.21 | [ 0.13; 0.35] |
| Pooled Totals | | | 0.17 | [ 0.10; 0.29] |
| *Heterogeneity: I²=squared=78.2%, Q=12.8, df=3, p=0.0056* | | | | |
| **Medullo/PNETs; PNETs** | | | | |
| Quoc, 2000 | Vietnam | Medullo/PNETs; PNETs | 2.10 | [ 0.79; 5.60] |
| Pooled Totals | | | 2.10 | [ 0.79; 5.60] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Meningioma; All** | | | | |
| Dobec-Meic, 2006 | Croatia | Meningioma; All | 3.50 | [ 2.35; 5.22] |
| Kuratsu, 2001 | Japan | Meningioma; All | 3.95 | [ 2.85; 5.47] |
| Poberaskin, 2000 | England | Meningioma; All | 4.83 | [ 3.35; 6.96] |
| Wohrer, 2009 | Austria | Meningioma; All | 6.91 | [ 6.31; 7.56] |
| Christensen, 2003 | Denmark | Meningioma; All | 2.85 | [ 2.69; 3.02] |
| Pooled Totals | | | 4.21 | [ 2.52; 7.04] |
| *Heterogeneity: I²=squared=98.5%, Q=263, df=4, p=0.0001* | | | | |
| **Nerve sheath tumors; Cranial Nerve** | | | | |
| Poberaskin, 2000 | England | Nerve sheath tumors; Cranial Nerve | 2.33 | [ 1.38; 3.93] |
| Wohrer, 2009 | Austria | Nerve sheath tumors; Cranial Nerve | 1.46 | [ 1.18; 1.81] |
| Pooled Totals | | | 1.73 | [ 1.11; 2.69] |
| *Heterogeneity: I²=squared=62.1%, Q=2.6, df=1, p=0.1045* | | | | |
| **Nerve sheath tumors; Schwannoma** | | | | |
| Dobec-Meic, 2006 | Croatia | Nerve sheath tumors; Schwannoma | 0.88 | [ 0.39; 1.98] |
| Kuratsu, 2001 | Japan | Nerve sheath tumors; Schwannoma | 1.22 | [ 0.64; 2.32] |
| Pooled Totals | | | 1.08 | [ 0.65; 1.78] |
| *Heterogeneity: I²=squared=0%, Q=0.4, df=1, p=0.5332* | | | | |
| **Nerve sheath tumors; Schwannoma − vestibular** | | | | |
| Frohlich, 1993 | Canada | Nerve sheath tumors; Schwannoma − vestibular | 1.24 | [ 0.89; 1.74] |
| Pooled Totals | | | 1.24 | [ 0.89; 1.74] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Others; Haematopoetic system tumors** | | | | |
| Wohrer, 2009 | Austria | Others; Haematopoetic system tumors | 0.51 | [ 0.36; 0.72] |
| Pooled Totals | | | 0.51 | [ 0.36; 0.72] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Others; Mesenchymal, non meningothelial tumors** | | | | |
| Wohrer, 2009 | Austria | Others; Mesenchymal, non meningothelial tumors | 0.06 | [ 0.01; 0.25] |
| Pooled Totals | | | 0.06 | [ 0.01; 0.25] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Others; Neuroepithelial tumors** | | | | |
| Dobec-Meic, 2006 | Croatia | Others; Neuroepithelial tumors | 6.30 | [ 4.67; 8.50] |
| Poberaskin, 2000 | England | Others; Neuroepithelial tumors | 8.23 | [ 6.01; 11.27] |
| Wohrer, 2009 | Austria | Others; Neuroepithelial tumors | 6.37 | [ 5.76; 7.05] |
| Pooled Totals | | | 6.58 | [ 5.84; 7.42] |
| *Heterogeneity: I²=squared=13.2%, Q=2.4, df=2, p=0.3076* | | | | |
| **Others; Neuronal and mixed neuronal glial tomors** | | | | |
| Wohrer, 2009 | Austria | Others; Neuronal and mixed neuronal glial tomors | 0.31 | [ 0.19; 0.52] |
| Pooled Totals | | | 0.31 | [ 0.19; 0.52] |
| *Heterogeneity: I²=squared=N/a%, Q=0, df=0, p=1* | | | | |
| **Pineal tumors; Parenchymal** | | | | |
| Lee, 2010 | Korea | Pineal tumors; Parenchymal | 0.02 | [ 0.01; 0.05] |
| Wohrer, 2009 | Austria | Pineal tumors; Parenchymal | 0.05 | [ 0.01; 0.19] |
| Pooled Totals | | | 0.03 | [ 0.01; 0.07] |
| *Heterogeneity: I²=squared=16.2%, Q=1.2, df=1, p=0.2745* | | | | |
| **Sellar tumors; Adenoma − pituitary** | | | | |
| Lee, 2010 | Korea | Sellar tumors; Adenoma − pituitary | 1.85 | [ 1.69; 2.03] |
| Dobec-Meic, 2006 | Croatia | Sellar tumors; Adenoma − pituitary | 0.58 | [ 0.22; 1.55] |
| Kuratsu, 2001 | Japan | Sellar tumors; Adenoma − pituitary | 2.34 | [ 1.53; 3.59] |
| Ligant, 2000 | Estonia | Sellar tumors; Adenoma − pituitary | 0.44 | [ 0.32; 0.61] |
| Pooled Totals | | | 1.06 | [ 0.46; 2.44] |
| *Heterogeneity: I²=squared=96%, Q=74.4, df=3, p=0.0001* | | | | |
| **Sellar tumors; All** | | | | |
| Lee, 2010 | Korea | Sellar tumors; All | 2.05 | [ 1.88; 2.24] |
| Poberaskin, 2000 | England | Sellar tumors; All | 4.26 | [ 2.78; 6.52] |
| Wohrer, 2009 | Austria | Sellar tumors; All | 1.66 | [ 1.36; 2.03] |
| Pooled Totals | | | 2.27 | [ 1.63; 3.16] |
| *Heterogeneity: I²=squared=87.2%, Q=15.6, df=2, p=0.0004* | | | | |
| **Sellar tumors; Craniopharyngioma** | | | | |
| Kuratsu, 2001 | Japan | Sellar tumors; Craniopharyngioma | 0.15 | [ 0.09; 0.25] |
| Lee, 2010 | Korea | Sellar tumors; Craniopharyngioma | 0.21 | [ 0.16; 0.28] |
| Dobec-Meic, 2006 | Croatia | Sellar tumors; Craniopharyngioma | 0.30 | [ 0.07; 1.20] |
| Ligant, 2000 | Estonia | Sellar tumors; Craniopharyngioma | 0.07 | [ 0.03; 0.17] |
| Pooled Totals | | | 0.16 | [ 0.10; 0.25] |
| *Heterogeneity: I²=squared=53.8%, Q=6.4, df=3, p=0.0918* | | | | |