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| Syndrome | CNS tumor | Other neoplasms |
| von Hipple-Lindau | hemangioblastoma |  |
| Tuberous sclerosis | Subependymal giant cell astrocytoma (SEGA) |  |
| Neurofibromatosis type I | Optic glioma, astrocytoma, neurofibroma |  |
| Neurofibromatosis type II | Acoustic neuroma, meningioma, ependymoma, astrocytoma |  |
| Turcot syndrome | GBM, AA, medulloblastoma, pineoblastoma | Multiple colorectal neoplasms (carcinoma or benign adenomatous polyps) |
| Li-Fraumeni (AD) | Astrocytoma, PNET | Sarcoma, osteosarcoma, breast cancer |
| Cowden | Meningiomas  |  |
| Lhermitte-Duclos |  |  |