**Supplementary table. Literature review of the primary CNS lymphoma with neurotologic findings**

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| **Author (Year)\*** | **Sex/Age** | **Location of tumor** | **Neurotologic findings** | **Other neurologic deficits** |
| Nishimura, et al. (1998) [1] | F/63 | CPA | SN (I) | Mental change |
| Husseini, et al. (2012) [2] | F/59 | CPA, basal ganglia, thalamus | SN (I) | Facial palsy, dysthesia, visual phosphen, blurred vision |
| Itoh, et al. (2001) [3] | F/28 | CPA | SN (I), hearing loss | Papilledema |
| Larner, et al. (1999) [4] | M/73 | CPA | SN (Lt), hearing loss, saccadic hypermetria | Sensory dysthesia, limb dysmetria |
| Matosevic, et al. (2010) [5] | M/60s | Midbrain, bagal ganglia,  corpus callosum | SN (Rt) | Aphasia, apraxia, dysphagia, anosmia, dysarthria, urinary incontinence |
| Lachance, et al. (1991) [6] | F/60 | Unknown | SN (Lt), abducens palsy | Mental change, motor weakness |
| Balmaceda, et al. (1994) [7] | M/65 | Cerebellum, hypothalamus  lateral and 3rd ventricles, | SN (horizontal), impaired upward gaze | Diabetes insipidus, mental change |
| Gijtenbeck, et al. (2001) [8] | M/42 | Temporal and occipital lobes | GEN | Bilateral central scotoma, papilledema |
| Kleopa, et al. (1996) [9] | M/67 | Cerebellum | GEN | Mental change, Seizure, retrograde amnesia, limb dysmetria |
| Marshall, et al. (1998) [10] | M42 | Pons, midbrain, internal capsule, frontal and parietal lobes | GEN | Mental change, impared gag reflex, motor weakness |
| Taieb, et al. (2014) [11] | M/58 | Medulla, pons, midbrain, internal capsule | GEN | Facial palsy, limb dysmetria |
| Toth, et al. (2002) [12] | M/46 | 3rd ventricle | GEN | Confabulation, retrograde amnesia |
| Migita, et al. (2013) [13] | F/53 | Medulla | GEN | Diplopia (not specified) |
| Garth, et al. (1993) [14] | F/68 | CPA | GEN (Brun’s nystagmus) | Dysarthria, Sensory ataxia, absent corneal reflex |
| Finelli, et al. (2006) [15] | F/42 | Pons, Cerebellum | GEN, abducens palsy, torsional nystagmus during vertical gazes | Facial palsy, motor weakness, dysthesia |
| Jaiswal, et al. (2004) [16] | M/36 | CPA, lateral and 3rd ventricles | GEN, abducens palsy, hearing loss | Facial palsy, limb dysmetria |
| McCue, et al. (1993) [17] | M/60 | Medulla, pons, midbrain | GEN, abducens palsy | Dysarthria, dysphagia, limb dysmetria, dysthesia |
| Ruff, et al. (1979) [18] | M/? | 3rd and 4th ventricles | GEN, convergence nystagmus | Mental change, dysarthria |
| Cheung, et al. (2011) [19] | F/63 | Medulla, midbrain, pineal gland, 3rd and 4th ventricles | Pretectal syndrome | Mental change |
| Cachia, et al. (2013) [20] | M/71 | Medulla, Cerebellum | Oculopalatal myoclonus, SN (Rt) | Ataxia, dysarthria |
| Miki, et al. (2014) [21] | M/62 | Pons, midbrain, thalamus | Complete ophthalmoplegia, ptosis | Mental change, motor weakness, limb dysmetria |
| Reiche, et al. (2007) [22] | F/65 | Temporal lobe | INO | Mental change |

C indicates contralesiona; CPA, cerebellopontine angle; GEN, gaze-evoked nystagmus; I, ipsilesional; INO, internuclear ophthalmoplegia; SN, spontaneous nystagmus.

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