

On-line Table 1: Patient clinical characteristics in 7 cases of DL-GNT

Case/Demographics	Clinical Presentation	Spinal Cord			Brain			Genetic Examination	
		Lepto-meningeal Thickening	Cystic-appearing Lesions	Solid Parenchymal Mass	Lepto-meningeal Thickening	Cystic-appearing Lesions	Hydro-cephalus		Distribution of Leptomeningeal Spread (supra- and infratentorial)
Case 1 (14-year-old male adolescent)	Chronic headache	Present	Absent	Absent	Present	Absent	Present	Both	Ip Deletion/KIAA1549-Codeletion/BRAF Fusion/Total Examinations Performed
Case 2 (4-year-old boy)	Chronic headache	Absent	Absent	Present	Absent	Present	Present	Absent	Absent/Absent/Absent
Case 3 (10-year-old boy)	New onset seizure	Absent	Absent	Absent	Present	Absent	Present	Infratentorial	Absent/Absent/Absent
Case 4 (8-year-old boy)	Chronic headache	Present	Present	Absent	Present	Present	Absent	Both	Absent/Absent/Absent
Case 5 (3.5-year-old boy)	Chronic headache	Present	Present	Absent	Present	Present	Absent	Both	Absent/Absent/Absent
Case 6 (5-year-old boy)	Gait imbalance	Present	Absent	Present	Absent	Absent	Present	Absent	Present/Present/Present
Case 7 (3-year-old boy)	New onset gaze abnormality and seizure	Present	Absent	Absent	Present	Absent	Present	Both	Present/Absent/Present

On-line Table 2: Comprehensive review of MR imaging characteristics of all DL-GNT cases published in the last 20 years

Study	n	Demographics	Imaging Characteristics							Genetic Examination
			Spinal Cord			Brain				
			Lepto-meningeal Thickening	Cystic-appearing Lesions	Solid parenchymal Mass	Lepto-meningeal Thickening	Cystic-appearing Lesions	Hydro-cephalus	Distribution of Leptomeningeal Sprea (Supratentorial/ Infratentorial/Both (su- pra- and infratentorial))	
Rodriguez et al ⁸	36	24 male/12 female (median age = 5 years)	18/36	8/36	7/36	25/36	10/36	8/36	5/4/16	8/3/0/15
Deng et al ¹¹	15*	9 male/6 female (median age = 5 years)	7/15	14/15	0/15	7/15	5/15	0/15	0/0/7	10/5/0/15
Schniederjan et al ²	9	4 male/5 female (median age = 4 years)	9/9	0/9	2/9	9/9	6/9	7/9	0/0/9	0/9/0/9
Aguilera et al ³	7	4 male/3 female (median age = 3 years)	7/7	7/7	0/7	6/7	6/7	0/7	0/0/6	0/0/0/7
Chiang et al ⁵	5	3 male/2 female (median age = 13 years)	0/5	0/5	5/5	0/5	0/5	0/5	0/0/0	4/0/4/4
Gardiman et al ⁴	4	2 male/2 female (median age = 3 years)	3/4	3/4	1/4	4/4	4/4	3/4	0/0/4	1/0/0/4
Preuss et al ¹⁴	4	4 male/0 female (median age = 3 years)	4/4	4/4	0/4	4/4	4/4	4/4	0/0/4	0/0/0/4
Cho et al ¹⁵	3	3 male/0 female (median age = 22 years)	1/3	0/3	0/3	3/3	0/3	0/3	0/2/1	0/0/0/0
Schwetye et al ⁶	2	2 male/0 female (median age = 8 years)	2/2	0/2	0/2	2/2	0/2	2/2	0/1/1	1/0/0/2
Pellerino et al ⁷	1	31-year-old man	1/1	1/1	0/1	1/1	1/1	1/1	0/0/1	0/0/0/1
Lyle et al ⁶	1	14-year-old female adolescent	1/1	1/1	1/1	1/1	1/1	1/1	0/0/1	0/0/0/1
Karlowee et al ²	1	17-year-old male	1/1	0/1	1/1	1/1	0/1	1/1	0/0/1	1/0/0/1
Yamasaki et al ¹⁷	1	22-year-old man	1/1	0/1	0/1	1/1	0/1	0/1	0/1/0	0/0/0/1
Fiaschi et al ¹⁸	1	36-year-old woman	0/1	0/1	0/1	1/1	1/1	0/1	0/1/0	0/0/0/1
Tiwari et al ⁹	1	3-year-old girl	1/1	1/1	1/1	1/1	1/1	0/1	0/1/0	0/0/0/0
Total	91	56/91 (62%) 39/91 (43%) 18/91 (20%)	39/91 (62%)	39/91 (43%)	18/91 (20%)	66/91 (73%)	39/91 (43%)	26/91 (29%)	5/10/51	25/17/4/65

* Comprehensive imaging description was available for only 15 of 30 patients with DL-GNT.