**Supplementary table 2: Comparison of clinical features between adult-onset and childhood-onset vanishing white matter disease from previous studies**

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| --- | --- | --- | --- |
| **Author/year/country** | **Adult-onset** | **Childhood-onset** | **Remarks** |
| **Fogli et al., 2004,1 France** | **n=2****CF: Both had only motor manifestations****Genes: *eIF2B5*** | **n=81****CF: motor manifestations (n=76), episodic worsening (n=34), cognitive and behavioral features (n=4), headache (n=1)****Genes: *eIF2B2*, *eIF2B3*, *eIF2B4*, *eIF2B5*** | **Risk of rapid disease evolution and death was higher in patients with younger age at onset** |
| **Ohlenbusch et al.,2 2005, Germany** | **n=1****CF: motor signs, cognitive signs****Genes: *eIF2B2*** | **n=14****CF: motor signs (n=11), cognitive signs (n=4), episodic worsening (n=9)****Genes: *eIF2B1*, *eIF2B2*, *eIF2B3*, *eIF2B4*, *eIF2B5*** |  |
| **Labauge et al., 2009,3 France** | **n=16****CF: Cerebellar ataxia (n=9), cognitive decline (n=8), ovarian failure (n=8), spastic paraplegia or tetraplegia (n=7), seizures (n=7), stress induced worsening (n=6), psychiatric symptoms (n=2), subcortical gait (n=1)****Genes: *eIF2B2*, *eIF2B5*** | **-** |  |
| **Robinson et al., 2014,4 Canada** | **n=1****CF: migraine, ataxia, hemiparesthesia, encephalopathy, episodic worsening (pregnancy triggered)****Genes: *eIF2B3*** | **n=4****CF: spasticity (n=4), ataxia (n=4), episodic worsening (n=3), cognitive changes (n=1), headache (n=1)****Genes: *eIF2B2*, *eIF2B3*, *eIF2B5*** |  |
| **Turon-Vilas et al., 2014,5 Spain** | **-** | **n=21****Spasticity (n=21), ataxia (n=16), seizures (n=9), cognitive impairment (n=12), hemiparesis (n=1), dystonia (n=1), ptosis (n=1), optic atrophy (n=4), macrocephaly (n=3), episodic deterioration (n=21)****Genes (n=16): *eIF2B3*, *eIF2B4*, *eIF2B5*** |  |
| **Zhang et al., 2015,6 China** | **-** | **n=34****CF: Progressive motor deterioration (n=34), episodic aggravation (n=24), seizures (n=16)****Genes: *eIF2B1*, *eIF2B2*, *eIF2B3*, *eIF2B4*, *eIF2B5*** |  |
| **Hamilton et al., 2018,7 multicenter** | **n=38****CF: episodic worsening (n=17)****Genes: *eIF2B3*, *eIF2B5*** | **n=258****CF: episodic worsening (n=195)****Genes: *eIF2B2*, *eIF2B3*, *eIF2B5*** | **Age at onset was an important factor determining the disease course, time to loss of ambulation, and mortality.** |
| **Gungor et al., 2020,8 Turkey** | **-** | **n=11****CF: Gait disturbance (n=5), seizures (n=2), developmental delay (n=2), speech disturbance (n=1), dystonia (n=1)****Genes: *eIF2B1*, *eIF2B3*, *eIF2B4*, *eIF2B5*** |  |
| **Bindu et al., 2020,9 India**  | **-** | **n=5****CF: episodic regression/ encephalopathy (n=5), seizures (n=5), spasticity & ataxia (n=3)****Genes: *eIF2B2*, *eIF2B3*, *eIF2B4*** |  |

‘CF’: clinical features

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