**Table e-1.** Clinical phenotypes, cancer associations and final diagnosis of 90 non-confirmed EUROLINE PNS 12 Ag (Euroimmun).

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| --- | --- | --- | --- |
| Non-confirmed staining (n) | Clinical presentation (n, %) | Cancer\* (n) | Final diagnosis (n) |
| Yo (41) | Cerebellar syndrome (5; 12.2%) | No | Creutzfeldt-Jakob disease (1)Post-infectious cerebellitis (1)Cerebellar multisystem atrophy (1)Alcoholic cerebellar degeneration (1)Barbiturates overdose (1) |
| Various phenotypes (36; 87.8%) | Lung adenocarcinoma (1) | Stroke |
| No (35) | Polyneuropathies (7)Other neuromuscular disorders (3)Stroke (2)Epilepsy (3)Infectious meningoencephalitis (3)Degenerative dementia/parkinsonism (3) ALS (3)Metabolic-toxic CNS disorders (3)Brain primary tumors (2)MS (1)Acute transverse myelitis (1)Bickerstaff´s encephalitis (1)Anti-NMDAR encephalitis (1)Transient diplopia after ocular surgery (1)Drug reaction with eosinophilia and systemic symptoms (1) |
| Ma2 (17) | Encephalitis with brainstem, diencephalic and limbic involvement (0) |  |  |
| Various phenotypes (17, 100%) | Lung adenocarcinoma (1) | Meningeal carcinomatosis |
| SCLC (1) | Attention deficit |
| No (15) | Polyneuropathies (4)Degenerative dementia/parkinsonism (2) Psychiatric disorders (2)Anti-LGI1 encephalitis (1)Vogt-Koyanagi-Harada disease (1)ALS (1)Metabolic-toxic CNS disorders (1)Idiopathic late-onset cerebellar ataxia (1)Hypertrophic pachymeningitis due to intracranial hypotension (1)Gait imbalance (1) |
| Amphiphysin (10) | Stiff-person syndrome (0) |  |  |
| Cerebellar syndrome (2; 20%) | No | Cerebellar multisystem atrophy (1)Barbiturates overuse (1) |
| Neuropathy (4; 40%) | No | Metabolic-toxic polyneuropathies (2)CIDP (2) |
| Various phenotypes (4; 40%) | No | MS (1)CNS vasculitis (1)Amyloid angiopathy (1)Psychotic depression (1) |
| CV2/CRMP5 (10) | Encephalomyelitis, sensory neuronopathy (0) |  |  |
| Limbic encephalitis (1; 10%) | No | Anti-LGI1 encephalitis (1) |
| Various phenotypes (9; 90%) | Uterine cancer (1) | ALS |
| Malignant thymoma (1) | Morvan’s syndrome (anti-CASPR2) |
| No (5) | ALS (2)Anti-NMDAR encephalitis (1)Stroke (1)MS (1)Degenerative dementia/parkinsonism (1)Diabetic polyneuropathy (1) |
| Hu (6) | Encephalomyelitis, sensory neuronopathy (0) |  |  |
| Limbic encephalitis (1; 17%) | No | Anti-LGI1 encephalitis |
| Cerebellar syndrome (1; 17%) | No | Anti-GAD cerebellar ataxia |
| Various phenotypes (4; 66%) | SCLC (1) | Leukoencephalopathy after radiotherapy |
| No (3) | Stroke (1)ALS (1)MS (1) |
| Tr/DNER (4) | Cerebellar syndrome (0) |  |  |
| Various phenotypes (4; 100%) | No | Polyneuropathy (1) Metabolic-toxic CNS disorders (1)Transient diplopia after ocular surgery (1)Drug reaction with eosinophilia and systemic symptoms (1) |
| Ri (2) | Opsoclonus-myoclonus, brainstem encephalitis, cerebellar syndrome (0) |  |  |
| Various phenotypes (2; 100%) | No | CIDP (2) |

\*Primary brain tumors are not included within this category.

*Abbreviations: ALS, amyotrophic lateral sclerosis, CIDP, chronic inflammatory demyelinating polyneuropathy, CASPR2,* anti-contactin-associated protein-like 2; *CNS, central nervous system; CRMP5, collapsin response-mediator protein-5; DNER, delta/notch-like epidermal growth factor-related receptor; LGI1, leucin-rich glioma-inactivated protein 1; MS, multiple sclerosis; NMDAR, N-methyl-D-aspartate receptor; SCLC, small-cell lung cancer.*