

On-line Table 1: Clinical indications in subjects with (signal) and without (no signal) signal abnormalities

| Clinical Indication | Signal | % | No Signal | % | P' |
|---|--------|------|-----------|------|------|
| Follow-up of previous abnormality | 0 | 0 | 2 | 1.2 | 1 |
| Assess for metastatic disease; known malignancy | 3 | 11.5 | 11 | 6.6 | .409 |
| Ataxia | 0 | 0 | 4 | 2.4 | 1 |
| Café-au-lait spots | 1 | 3.8 | 0 | 0 | .135 |
| Cardiofaciocutaneous syndrome | 1 | 3.8 | 0 | 0 | .135 |
| Cavernous malformation | 0 | 0 | 1 | 0.6 | 1 |
| Dizziness, vertigo | 1 | 3.8 | 3 | 1.8 | .442 |
| Developmental delay | 0 | 0 | 5 | 3 | 1 |
| Encephalopathy | 1 | 3.8 | 4 | 2.4 | .519 |
| Extracranial mass | 0 | 0 | 1 | 0.6 | 1 |
| Facial vascular/lymphatic malformation | 3 | 11.5 | 13 | 7.8 | .457 |
| Facial nerve palsy | 0 | 0 | 2 | 1.2 | 1 |
| Headache | 5 | 19.2 | 42 | 25.1 | .513 |
| Hearing loss | 0 | 0 | 1 | 0.6 | 1 |
| Intracranial hemorrhage | 1 | 3.8 | 0 | 0 | .135 |
| Intracranial tumor follow-up | 0 | 0 | 7 | 4.2 | .597 |
| Irritability | 1 | 3.8 | 0 | 0 | .135 |
| Pituitary dysfunction | 0 | 0 | 7 | 4.2 | .597 |
| Precocious puberty | 1 | 3.8 | 0 | 0 | .135 |
| Psychosis | 0 | 0 | 4 | 2.4 | 1 |
| Seizures | 6 | 23.1 | 24 | 14.4 | .254 |
| TIA/strokelike symptoms | 0 | 0 | 8 | 4.8 | .601 |
| Urinary retention | 0 | 0 | 1 | 0.6 | 1 |
| Visual changes/abnormal eye movements | 2 | 7.7 | 26 | 15.6 | .381 |
| Vomiting | 0 | 0 | 1 | 0.6 | 1 |
| Total number | 26 | | 167 | | |

On-line Table 2: Additional MRI findings in subjects with (signal) and without (no signal) signal abnormalities

| Additional Findings | Signal | % | No Signal | % | P' |
|--|--------|------|-----------|------|------|
| Acute/subacute infarct | 0 | 0 | 4 | 2.4 | 1 |
| Atrophy/gliosis remote from DVA | 3 | 11.5 | 3 | 1.8 | .033 |
| Cavernous malformation | 5 | 19.2 | 7 | 4.2 | .012 |
| Chiari 1 or low-lying cerebellar tonsils | 2 | 7.7 | 3 | 1.8 | .135 |
| Cranial nerve enhancement | 0 | 0 | 2 | 1.2 | 1 |
| Delayed/incomplete myelination | 0 | 0 | 1 | 0.6 | 1 |
| Ectopic posterior pituitary | 0 | 0 | 1 | 0.6 | 1 |
| Extracalvarial mass | 0 | 0 | 3 | 1.8 | 1 |
| Global parenchymal volume loss | 1 | 3.8 | 2 | 1.2 | .354 |
| Gray matter heterotopia | 0 | 0 | 4 | 2.4 | 1 |
| Intracranial hemorrhage | 1 | 3.8 | 0 | 0 | .135 |
| Multiple leptomeningeal lesions | 0 | 0 | 1 | 0.6 | 1 |
| No other findings | 12 | 46.2 | 58 | 34.7 | .26 |
| Intracranial mass/lesion | 0 | 0 | 25 | 15 | .029 |
| Pineal gland abnormality | 0 | 0 | 3 | 1.8 | 1 |
| Pituitary cyst | 0 | 0 | 1 | 0.6 | 1 |
| Postsurgical change | 0 | 0 | 7 | 4.2 | .597 |
| Retinoblastoma | 0 | 0 | 1 | 0.6 | 1 |
| Scalp vascular/lymphatic malformation | 0 | 0 | 12 | 7.2 | .375 |
| Septo-optic dysplasia | 0 | 0 | 1 | 0.6 | 1 |
| Signal abnormality remote from DVA | 2 | 7.7 | 25 | 15 | .542 |
| Ventricular enlargement | 0 | 0 | 3 | 1.8 | 1 |
| Total | 26 | | 167 | | |