

Foal	Age (days)	Mentation	Menace response	Cutaneous trunci reflex	GP ataxia (thoracic limbs)	GP ataxia (pelvic limbs)
NAD/EDM1	4	N	N/A	N	0	0
	10	N	N/A	N	0	0
	30	N	N/A	N	0	0
	60	N	N	N	0	0
	90	N	N	N	0	0
	120	N	N	N	2	2
	150	IO	N	N	2.5	2.5
	180	IO	Absent OU	N	2.5	2.5
	210	IO	Absent OU	N	2.5	2.5
	240	IO	Absent OU	N	2.5	2.5
	300	IO	Absent OU	N	2.5	2.5
	360	IO	Absent OU	N	2	2
	540	IO	Absent OU	N	2.5	2.5
NAD/EDM2	4	N	N/A	N	0	0
	10	N	N/A	N	0	0
	30	N	N/A	N	0	0
	60	N	N	N	0.5	0
	90	N	N	N	0	0
	120	IO	N	N	0	1
	150	IO	N	N	2	2
	180	IO	N	N	2.5	2.5
	210	IO	N	N	2.5	2.5
	240	IO	N	N	2.5	2.5
	300	IO	N	N	2.5	2.5
	360	IO	N	N	2	2
	540	IO	N	N	2.5	2.5
NAD/EDM3	4	N	N/A	N	0	0
	10	N	N/A	N	0	0
	30	N	N/A	N	1	1

	60	N	Inconsistent OU	N	1	1
	90	N	Inconsistent OU	N	1	1
	120	N	Inconsistent OU	N	1	1
	150	N	Inconsistent OU	N	1	1
	180	N	Inconsistent OU	N	2	2
	210	N	Inconsistent OU	N	2	2
	240	N	Inconsistent OU	N	2	2
	300	N	Inconsistent OU	N	2	2
	360	N	Inconsistent OU	N	2	2
	540	N	Inconsistent OU	N	2	2
NAD/EDM4	4	N	N/A	N	0	0
	10	N	N/A	N	1	1
	30	N	N/A	N	1	1
	60	IO	Inconsistent OU	N	1	1
	90	IO	Inconsistent OU	N	1	1
	120	IO	Inconsistent OU	N	1	1
	150	IO	Inconsistent OU	N	1	1
	180	IO	Inconsistent OU	N	2	2
	210	IO	Inconsistent OU	N	2	2
	240	IO	Inconsistent OU	N	2	2
	300	IO	Inconsistent OU	N	2	2
	360	IO	Inconsistent OU	N	2	2
	540	IO	Inconsistent OU	N	2	2

Supplementary Table 1: Neurologic examination results from the 4 NAD/EDM-affected foals throughout the first 1.5 years of life.

GP=general proprioceptive, NAD/EDM=Neuroaxonal dystrophy/ equine degenerative myelencephalopathy, N=normal, N/A=not assessed, IO=intermittent obtundation, OU=both left and right eyes.