

Supplemental Digital Content 1 – Clinical details for patients with abnormal development at follow-up

Patient	Age at diagnosis (days)	ICU admission	Ventilated	Seizures	Intropes	MRI findings	Abnormalities < 6 months	Abnormalities > 6 months	Findings on repeat MRI
1	13	Yes	Yes	Yes	Yes	Extensive cerebral white matter and cortical signal changes	Global developmental delay ^c	1 year Spastic quadriplegia cortical visual impairment Seizures ASQ ^c : Global developmental delay	Evolution of parenchymal changes
2	12	Yes	Yes	Yes	No	Restricted diffusion in periventricular white matter, corpus callosum, thalami, deep and subcortical white matter	Normal ^c	2 years Gross motor delays, speech delay	PVL with white matter volume loss
3	69	Yes	Yes	Yes	No	Restricted diffusion in fronto-parieto-occipital white matter	Unknown	1 year Spastic quadriplegia cortical visual impairment Seizures Global developmental delay	22 months – Parenchymal gliosis and atrophy in parieto-occipital lobes of dorsal thalami and deep fronto-temporal white matter
4	10	Yes	Yes	Yes	No	Restricted diffusion in periventricular white matter	Decreased left sided movement ^c	18 months Global developmental delay hemiplegic Cerebral palsy Hemianopia.	3 yrs – localised gliosis in grey and white matter of superior right parietal lobe
5	11	Yes	No	No	No	Restricted diffusion	Normal ^c	1 year:	MRI – mild to moderate

						throughout white matter		ASQ significant delays in social recognition, gross motor skills and speech. Seizures	white matter reduction
6	16	Yes	Yes	No	Yes	Restricted diffusion in deep white matter	Seizures ^d	1 year oral aversion and expressive language delay	
7	47	No	No	No	No	Not done	Normal ^c	21 months Gross motor and fine motor delays	None
8	8	Yes	Yes	No	No	Periventricular ischaemic changes	Normal ^d	2 years speech delay ^b	None
9	20	Yes	No	No	No	Not done	Normal ^d	9 months hypotonia gross motor, speech and swallow delay.	None
10	48	No	No	No	No	Not done	Normal ^d	1 year Hypotonia Gross motor delay	None
11	21	No	No	No	No	Not done	Normal ^c	13 months Gross motor delay	None

a. 1month 29 days (28/40 week gestation – 36 weeks corrected

b. Awaiting formal child development review

c. Follow-up at 6-8 weeks

d. Follow-up at 3-4 months

e. Ages and stages questionnaire³⁷