

Table SI. Results of laboratory tests before surgery and treatment.

Blood biochemical index									
K	Na	Cl	Urea	Cr	GLU	ALT	AST	CK	CK-MB
4.81 mmol/l	135.2 mmol/l	100 mmol/l	3.54 mmol/l	15.8 μmol/l	6.41 mmol/l	101 U/l	48.7 U/l	55 U/l	77 U/l
ALP									
384 U/l									
Coagulation function index									
PT	INR	FIB	APTT						
11.3 sec	0.99	2.14 g/l	27.9 sec						
Blood routine examination									
CRP	WBC	RBC	MCV	MCH	HGB	PLT	NEUT	ABO	RhD
<8 mg/l	6.35x10 ⁹	4.22x10 ¹²	79.4 fl	26.1 pg	110 g/l	397x10 ⁹	2.6x10 ⁹	B	(+)
HCY	>50 μmol/l								
NH3	39 μmol/l								
CSF									
CL	GLU	M-TP	RBC	WBC					
120.9 mmol/l	3.34 mmol/l	396 mg/l	-	0					
TORCH									
TOX-IgM	RV-IgM	CMV-IgM	HSV-IgM						
Negative	Negative	Negative	Negative						
GC-MS in blood									
MET	C0								
8.12 μmol/l	11.06 μmol/l								
Urine organic acid analysis			no abnormalities						
Cranial MRI		Hydrocephalus, supratentorial ventricle, occipital cistern and cerebellar stream enlargement, cerebellar hemispheres small size,							

	brain stem thin, brain parenchyma thinning, delayed myelination.
Echocardiogram	Asymmetric septal hypertrophy, pulmonary arterial hypertension, patent foramen ovale (2mm) and mild tricuspid regurgitation.
Chest X-ray	Increased lung markings with blurred margins.
Video-EEG	Hypsarrhythmia, dissociation and epileptic discharges in the brain.
<i>MTHFR</i>	
c.1450G>A (p.Lys510Lys)	c.233C>A (p.Ser78Ter)
K, potassium; Na, sodium; Cl, chlorine; Cr, creatinine; GLU, glutamine; ALT, alanine aminotransferase; AST, aspartate aminotransferase; CK, creatine kinase; CK-MB, creatine kinase-muscle/brain; ALP, alkaline phosphatase; PT, prothrombin time; INR, international normalized ratio; FIB, Fibonacci retracement; APTT, activated partial thromboplastin time; CRP, C-reactive protein; WBC, white blood cell; RBC, red blood cell; MCV, mean corpuscular volume; MCH, mean corpuscular hemoglobin; HGB, hemoglobin; PLT, platelets; NEUT, neutrophil; ABO, ABO blood type; RhD, Rh blood group D; HCY, homocysteine; NH3, ammonia; CSF, cerebral spinal fluid; TOX, <i>Toxoplasma gondii</i> ; RV, rubella virus; CMV, cytomegalovirus; HSV, herpes simplex virus; GC-MS, gas chromatography-mass spectrometry; MTHFR, 5,10-methylenetetrahydrofolate reductase.	

Table SII. Results of laboratory tests after surgery and treatment.

Blood biochemical index									
K	Na	Cl	Urea	Cr	GLU	ALT	AST	CK	CK-MB
4.52 mmol/l	138.6 mmol/l	99.3 mmol/l	2.57 mmol/l	22.6 μmol/l	4.97 mmol/l	101 U/l	48.7 U/l	118 U/l	4.6 U/l
ALP									
323 U/l									
Coagulation function index									
PT	INR	FIB	APTT	D-D					
12.3 sec	1.07	2.88 g/l	31.6 sec	0.2 mg/l					
Blood routine examination									
CRP	WBC	RBC	MCV	MCH	HGB	PLT	NEUT		
<8 mg/l	8.13x10 ⁹	4.28x10 ¹²	77.6 fl	24.8 pg	106g/l	336x10 ⁹	3.24x10 ⁹		
HCY	78.1 mmol/l								
GC-MS in blood									
MET	C0	No abnormalities with the rest.							
12 μmol/l	85.93 μmol/l								
Head CT		Cranial hypertension improved and the ventricle was slightly retracted.							
K, potassium; Na,sodium; Cl, chlorine; Cr, creatinine; GLU, glutamine; ALT, alanine aminotransferase; AST, aspartate aminotransferase; CK, creatine kinase; CK-MB, creatine kinase-muscle/brain; ALP, alkaline phosphatase; PT, prothrombin time; INR, international normalized ratio; FIB, Fibonacci retracement; APTT, activated partial thromboplastin time; D-D, D-dimer; CRP, C-reactive protein; WBC, white blood cell; RBC, red blood cell; MCV, mean corpuscular volume; MCH, mean corpuscular hemoglobin; HGB, hemoglobin; PLT, platelets; NEUT, neutrophil; HCY, homocysteine; GC-MS, gas chromatography-mass spectrometry.									