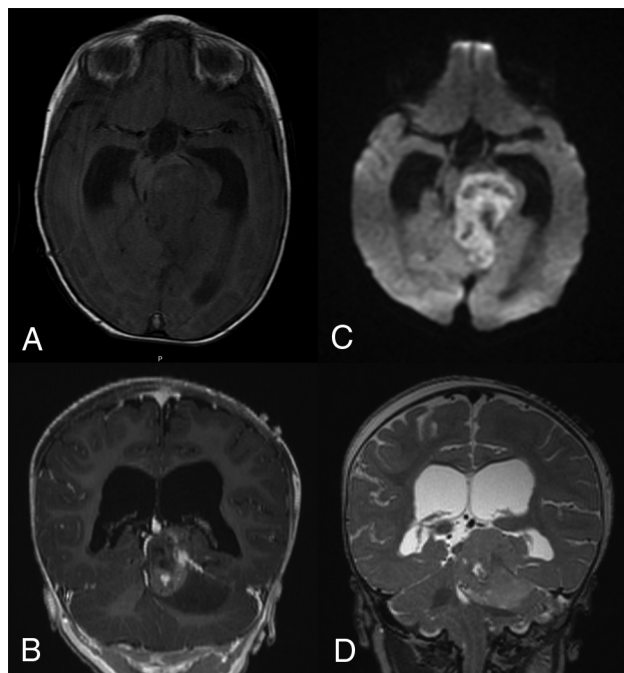
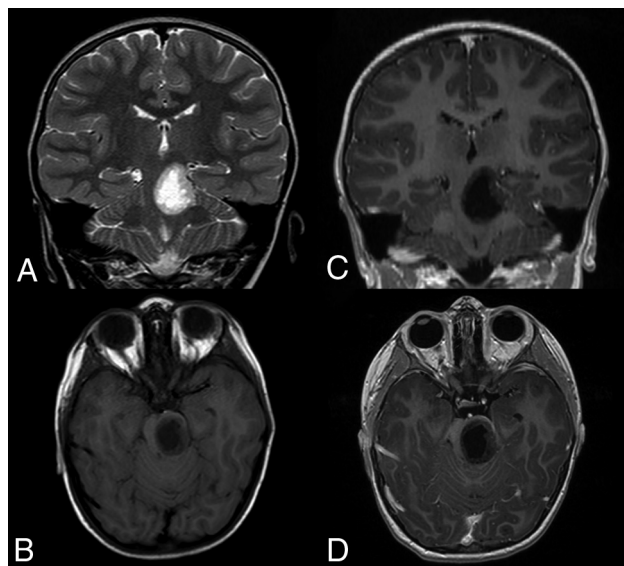




ON-LINE FIG 1. Brain imaging of patient 1. Axial (A and C) and coronal (B and D) MR images show a large tumor crossing the tentorial incisura, lateralized on the left, with mass effect on the mesencephalon, causing hydrocephalus. The tumor displays hypointensity on the T1-weighted image (A), hyperintensity on the T2-weighted image (D), and heterogeneous enhancement after contrast media injection (B). Diffusion signal is high (C) with low ADC.



ON-LINE FIG 2. Brain imaging of patient 15. Coronal (A and C) and axial (B and D) plane MR images show a pseudocystic mass with a thick irregular wall within the mesencephalon. The tissular component of the tumor displays hypointensity on the T1-weighted image (B), hyperintensity on the T2-weighted image (A), and no enhancement after contrast media injection (C and D).

On-line Table 1: Qualitative imaging characteristics of the 16 patients

Patient	Age	Sex	Location	Size (mm)	Calcifications	CT Density	Mass Effect	Intratumoral Macrovesel	Edema	Enhancement
1	1 yr 2 mo	M	Tentorial incisure	50	Yes	Isodense	Yes, brain herniation	Yes	No	Weak, focal nodule
2	1 yr 4 mo	F	Vermis	43	No	Hyperdense	Yes	Yes	No	Weak, focal nodule
3	1 yr 6 mo	M	Vermis	53	No	Hypodense	Yes, brain herniation	Yes	No	No
4	1 yr 8 mo	F	Pons	33	Yes ^a	NA	Yes	Yes	No	No
5	2 yr 2 mo	F	Occipital	69	Yes	Isodense	Yes, brain herniation	Yes	Moderate	Weak, heterogeneous
6	2 yr 2 mo	F	Temporal	80	Yes ^a	NA	Yes, brain herniation	Yes	Moderate	Weak, heterogeneous
7	2 yr 5 mo	F	Tentorial incisure	68	No ^a	NA	Yes, brain herniation	Yes	No	Weak, heterogeneous
8	2 yr 7 mo	F	Thalamus and hemisphere	60	NA	NA	Yes, brain herniation	Yes	Moderate	Intense, heterogeneous
9	2 yr 8 mo	F	Thalamus and hemisphere	73	Yes	Hyperdense	Yes, brain herniation	Yes	No	Weak, heterogeneous
10	2 yr 9 mo	F	Frontal	50	Yes ^a	NA	Yes	Yes	No	Weak, heterogeneous
11	2 yr 10 mo	M	Thalamus and hemisphere	57	Yes	Isodense	Yes	Yes	No	Weak, heterogeneous
12	3 yr 2 mo	F	Temporal	94	Yes	Hyperdense	Yes, brain herniation	Yes	No	Weak, heterogeneous
13	3 yr 3 mo	F	Frontal	70	No	Hyperdense	Yes	Yes	Moderate	Weak, focal nodule
14	3 yr 5 mo	F	Parietal	77	Yes	Isodense	Yes, brain herniation	Yes	No	NA
15	3 yr 8 mo	M	Mesencephalon	31	No ^a	NA	Yes	No	No	No
16	11 yr 10 mo	F	Fourth ventricle	31	Yes	Hyperdense	Yes	Yes	No	Intense, homogeneous

Note:—NA indicates not applicable.^a MRI only to assess calcifications.

On-line Table 2: Quantitative imaging characteristics of the 16 patients^a

Patient	ADCmin	ADCmean	ASL CBFmax	ASL rCBFmax	ASL CBFmean	ASL rCBFmean	DSC rCBVmax	DSC rCBVmean
1	540	901	NA	NA	NA	NA	NA	NA
2	520	571	35	0.78	35	0.78	NA	NA
3	458	628	25	0.54	24	0.52	NA	NA
4	616	782	48	0.81	39	0.66	NA	NA
5	522	780	NA	NA	NA	NA	NA	NA
6	465	716	NA	NA	NA	NA	NA	NA
7	502	728	NA	NA	NA	NA	NA	NA
8	NA	NA	NA	NA	NA	NA	NA	NA
9	495	524	39	0.75	21	0.40	3.5	1.7
10	483	611	77	0.79	42	0.43	5.8	2.7
11	502	509	46	0.82	25	0.45	4.3	2.1
12	557	802	NA	NA	NA	NA	NA	NA
13	NA (low)	NA (low)	NA	NA	NA	NA	NA	NA
14	NA	NA	NA	NA	NA	NA	NA	NA
15	599	816	23	0.32	23	0.32	NA	NA
16	539	875	126	2.33	72	1.33	NA	NA
Median (IQR)	520 (495–540)	728 (611–802)	43 (33–55)	0.78 (0.70–0.82)	30 (24–40)	0.48 (0.42–0.69)	4.3 (3.9–5.1)	3.6 (1.9–2.4)

Note:—min indicates minimum; max, maximum; rCBF, relative CBF; rCBV, relative CBV; NA, not applicable.

^a Data are ADC in mm²/s; CBF in mL/min/100 g; rCBV and rCBF have no unit.