



**ON-LINE FIGURE 1.** A 13-year-old boy with bilateral PNH. *A*, Sagittal T1 spin-echo-weighted image shows an enlarged third ventricle (3v) without commissural structures along either its roof or anterior wall (*white arrowheads*). Only the optic chiasm (*white arrow*) is seen in the floor of the third ventricle. Small midbrain (*m*) and pons (*p*) are also observed. *B*, Coronal T2 FSE through the anterior aspect of third ventricle shows bilateral PNH in the margins of temporal horns (*open arrowheads*). Agenesis of the corpus callosum with very small Probst bundles is seen along the medial aspect of frontal horn (*white arrowheads*); fornices are seen at their infero-medial margins (*black arrowheads*). A very tiny anterior commissure could be present at the anterior wall of the third ventricle (*white arrow*).

**On-line Table 1: Locations of PNH**

Location	No.	%
Frontal horns	116	58
Bodies	120	60
Trigones	146	73
Occipital horns	90	45
Temporal horns	93	46.5

**On-line Table 2: Location of isolated PNH**

Location	No.	%
Frontal horns	15	7.5
Bodies	9	4.5
Trigones	13	6.5
Occipital horns	1	0.5
Temporal horns	3	1.5

**On-line Table 3: Cortical anomalies associated with PNH**

	Proliferation		Migration		Organization		Global (P+M+O)		Acquired Injury	
	No.	%	No.	%	No.	%	No.	%	No.	%
	Group 1	10	15.9	9	14.3	6	9.5	25	39.7	1
Group 2	4	10.3	5	12.8	2	5.1	11	28.2	1	2.6
Group 3	2	2.0	23	23.5	5	5.1	30	30.6	2	2.0
Unilateral	4	9.5	12	28.6	6	14.3	22	52.4	0	0.0
Bilateral	11	7.0	25	15.8	7	4.4	43	27.2	4	2.5
Diffuse	0	0.0	8	25.0	1	3.1	9	28.1	0	0.0
Anterior	2	4.7	3	7.0	1	2.3	6	14.0	1	2.3
Posterior	10	17.2	12	20.7	8	13.8	30	51.7	1	1.7
Global	16	8.0	37	18.5	13	6.5	66	33.0	4	2.0

**Note:**—P+M+O indicates Proliferation + Migration + Organization.

**On-line Table 4: WM volume and myelination**

	WM Volume		Myelination		
	Normal	Reduced	Normal	Delayed	C.A.
Group 1	31.7%	68.3%	82.5%	14.3%	3.2%
Group 2	30.8%	69.2%	82.1%	15.4%	2.6%
Group 3	30.6%	69.4%	91.8%	8.2%	0.0%
Unilateral	26.2%	73.8%	83.3%	11.9%	4.8%
Bilateral	32.3%	67.7%	88.0%	11.4%	0.6%
Diffuse	15.6%	84.4%	84.4%	15.6%	0.0%
Anterior	48.8%	51.2%	88.4%	11.6%	0.0%
Posterior	24.1%	75.9%	81.0%	15.5%	3.4%

**Note:**—C.A. indicates could not assess.

**On-line Table 5: Forebrain commissures in patients with PNH**

	Corpus Callosum					Anterior Commissure					Hippocampal Commissure		
	Normal	Agenesis	Hypogenesis	Hypoplastic	C.A.	Normal	Hypoplastic	Thick	Absent	C.A.	Present	Absent	C.A.
Group 1	36.5%	11.1%	28.6%	22.2%	1.6%	46.0%	23.8%	0.0%	6.3%	23.8%	71.4%	12.7%	15.9%
Group 2	30.8%	5.1%	43.6%	17.9%	2.6%	64.1%	10.3%	5.1%	2.6%	17.9%	71.8%	7.7%	20.5%
Group 3	35.7%	8.2%	22.4%	30.6%	3.1%	44.9%	25.5%	3.1%	6.1%	20.4%	68.4%	17.3%	14.3%
Unilateral	31.0%	11.9%	31.0%	23.8%	2.4%	50.0%	26.2%	2.4%	2.4%	19.0%	69.0%	11.9%	19.0%
Bilateral	36.1%	7.6%	27.8%	25.9%	2.5%	48.7%	20.9%	2.5%	6.3%	20.9%	70.3%	14.6%	15.2%
Diffuse	18.8%	6.3%	28.1%	43.8%	3.1%	56.3%	18.8%	6.3%	0.0%	18.8%	59.4%	18.8%	21.9%
Anterior	48.8%	4.7%	23.3%	23.3%	0.0%	55.8%	23.3%	4.7%	7.0%	9.3%	72.1%	9.3%	18.6%
Posterior	31.0%	12.1%	32.8%	24.1%	0.0%	31.0%	31.0%	0.0%	6.9%	31.0%	67.2%	17.2%	15.5%

**Note:**—C.A. indicates could not assess.

**On-line Table 6: Posterior fossa structures in patients with PNH**

	Vermis			Cerebellar Hemispheres			Brain Stem			MCM
	Normal	Abnormal	C.A.	Normal	Abnormal	C.A.	Normal	Abnormal	C.A.	Presence
Group 1	73.0%	27.0%	0.0%	88.9%	11.1%	0.0%	71.4%	27.0%	1.6%	1.6%
Group 2	76.9%	20.5%	2.6%	92.3%	5.1%	2.6%	82.1%	15.4%	2.6%	5.1%
Group 3	67.3%	31.6%	1.0%	77.6%	21.4%	1.0%	82.7%	16.3%	1.0%	21.4%
Unilateral	71.4%	26.2%	2.4%	83.3%	14.3%	2.4%	73.8%	23.8%	2.4%	2.4%
Bilateral	70.9%	28.5%	0.6%	84.2%	15.2%	0.6%	80.4%	18.4%	1.3%	14.6%
Diffuse	62.5%	37.5%	0.0%	81.3%	18.8%	0.0%	87.5%	12.5%	0.0%	31.3%
Anterior	86.0%	14.0%	0.0%	93.0%	7.0%	0.0%	90.7%	9.3%	0.0%	0.0%
Posterior	60.3%	37.9%	1.7%	75.9%	24.1%	0.0%	69.0%	31.0%	0.0%	5.2%

**Note:**—C.A. indicates could not assess; MCM, megacisterna magna.

**On-line Table 7: Basal ganglia/thalami/hippocampi anomalies in PNH**

	Basal Ganglia/Thalami			Hippocampi		
	Normal	Abnormal	C.A.	Normal	Abnormal	C.A.
Group 1	84.1%	14.3%	1.6%	63.5%	14.3%	22.2%
Group 2	87.2%	7.7%	5.1%	66.7%	17.9%	15.4%
Group 3	85.7%	13.3%	1.0%	58.2%	19.4%	22.4%
Unilateral	78.6%	19.0%	2.4%	61.9%	9.5%	28.6%
Bilateral	87.3%	10.8%	1.9%	61.4%	19.6%	19.0%
Diffuse	87.5%	9.4%	3.1%	59.4%	15.6%	25.0%
Anterior	86.0%	14.0%	0.0%	62.8%	11.6%	25.6%
Posterior	93.1%	5.2%	1.7%	56.9%	20.7%	22.4%

**Note:**—C.A. indicates could not assess.