

On-line Table 1: Demographic characteristics of patients undergoing rapid MR imaging

Demographics	
Age (median, IQR)	1 year, 9.6 months (8.6 months–6 years, 9.4 months)
Age range	2 days–13 years, 10.5 months
Female sex (%)	38.7
Presenting facility (%)	
Outpatient	265 (66.6)
Inpatient	93 (23.4)
Emergency	40 (10.1)
Clinical presentation	
Routine follow-up	162 (40.7)
Postoperative evaluation	49 (12.3)
Headache	40 (10.1)
Vomiting	36 (9.0)
Altered mental status	24 (6.0)
Macrocephaly	24 (6.0)
Shunt malfunction	23 (5.8)
Multiple indications	23 (5.8)
Hemorrhage	17 (4.3)
Other	16 (4.0)
Seizure	8 (2.0)
Fussy	8 (2.0)
Mass	2 (0.5)
Preoperative evaluation	2 (0.5)
Pain	1 (0.3)
Examination indication (%)	
Ventricular size assessment	318 (79.9)
Intracranial blood or fluid	36 (9.0)
Other	23 (5.8)
Macrocephaly	12 (3.0)
Intracranial cyst	9 (2.3)
Patient conditions (%)	
Total with multiple conditions	81 (40.9)
Hydrocephalus NOS	75 (37.9)
Spina bifida	28 (14.1)
Chiari type II	25 (12.6)
Tumor	23 (11.6)
Hemorrhage	20 (10.1)
Other	18 (9.1)
Cyst	16 (8.1)
Macrocephaly	13 (6.6)
Cerebral palsy	11 (5.6)
Aqueductal stenosis	8 (4.0)
Craniosynostosis	7 (3.5)
Chiari type I	7 (3.5)
Dandy-Walker malformation	5 (2.5)
Tuberous sclerosis	2 (1.0)

Note:—Study consists of 198 patients and 398 examinations; IQR indicates interquartile range; NOS, not otherwise specified.

On-line Table 2: Factors affecting rapid MR imaging scan duration

Variables	Change in Time (min)	P Value
Demographics		
Female sex	0.049	.711
Age (per year)	−0.003	.930
Inpatient status	0.209	.707
Indications		
Headache	−0.626	.202
Vomiting	0.357	.496
Hydrocephalus	0.163	.912
Preoperative evaluation	0.106	.953
Shunt malfunction	0.216	.687
Seizure	−0.152	.865
Fussy	0.147	.880
Altered mental status	1.772 ^a	.004 ^a
Hemorrhage	0.331	.640
Mass	−1.904	.312
Macrocephaly	0.556	.443
Conditions		
Hydrocephalus	−0.060	.880
Cerebral palsy	1.260	.141
Tuberous sclerosis	1.882	.283
Dandy-Walker malformation	−0.279	.809
Cyst	−0.663	.312
Chiari type I	1.194	.225
Chiari type II	−0.337	.674
Tumor	0.174	.776
Aqueductal stenosis	−0.423	.647
Macrocephaly	1.231	.150
Hemorrhage	1.191	.072
Craniosynostosis	−0.641	.529
Spina bifida	0.047	.951

Note:—Total average scan duration is 4.43 (± 2.42) minutes.

^a Significantly associated with longer scan duration.