

Table 1 Endoscopic removal of third ventricular tumor via trans-Monro-approach. Literature review

Author and reference	Pt	Age, sex	Tumor size	Pathology	Method	ETV	Resection	Complication	Outcome
Gaab et al., 1998,[10]	1	7y, M	<2cm	metastatic medulloblastoma	rigid	+	total	NR	good
	2	61y, F	<2cm	epidermoid cyst	rigid	+	total	NR	good
	3	25y, F	<2cm	Low grade glioneuronal tumor	rigid	+	partial	NR	good
	4	18, M	<2cm	germinoma	rigid	+	partial	NR	transient DI, memory disturbance
Luther et al., 2005, [19]	5	31y, F	0.5cm	ependymoma	rigid		total	no	good
Southweidane, et al.,2006, [16]	6	20y, M	1.2cm	low grade glioneuronal tumor	rigid	+	total	no	good
	7	49y, M	1.7cm	ependymoma	rigid	+	total	no	good
	8	40y, F	1.2cm	central neurocytoma	rigid	+	total	no	good
	9	31y, F	0.5cm	ependymoma	rigid	+	total	no	good
	10	39y, F	2.4cm	central neurocytoma	rigid	+	partial	no	
Rosenstengel et al., 2011, [17]	11	12y, M	<2cm	anaplastic ependymoma	rigid	+	total	no	good
Felletti et al., 2013, [14]	12	22y, M	2.1cm	anaplastic ependymoma	flexible, direct aspiration	+	total	ETV closure	good
	13	48y, M	1.7cm	carcinoma with papillary architecture	flexible, direct aspiration	+	partial	no	good
	14	57y, M	2cm	Rosette forming tumor of the IV ventricle, anaplastic	flexible, direct aspiration	+	partial	no	Died for progression
Santos et al., 2015, [8]	15	10w, M	2cm	choroid plexus papilloma	rigid	-	total	meningitis, VP shunt	
Sufianov et al., 2015, [18]	16	5m, M	2.1cm	choroid plexus papilloma	rigid	+	total	no	good
Hidalgo et al., 2015, [7]	17	11y, M	1.6cm	clear cell ependymoma	rigid	NR	total	no	good
	18	6y, M	1.2cm	anaplastic ependymoma	rigid	NR	total	no	good
	19	17y, F	10cm	pilocytic astrocytoma	rigid	NR	total	ICP elevation, retinal hemorrhage	
	20	9y, F	1.1cm	anaplastic ependymoma	rigid	NR	total	no	good
	21	12y, F	0.9cm	anaplastic ependymoma	rigid	NR	total	no	good
	22	2y, F	1.8cm	neuroepithelial tumor with ependymoma features	rigid	NR	total	no	
	23	17y, M	1.9cm	nongerminomatous germ cell tumor	rigid	NR	subtotal	no	good
	our cases	24	48y, M	1.4cm	ancient shwannoma	flexible, blunt dissection	+	total	no
25		78y, F	0.7cm	cavernoma	flexible, blunt dissection	+	total	no	good

Pt: patient, ETV: endoscopic third ventriculostomy, y:year-old, m:month-old, w:week-old, M:male, F:female,DI:diabetes insipidus, VP shunt: ventriculoperitoneal shunt, ICP: intracranial pressure, NR: not reported