

# Adult Medulloblastoma: an update from Italian Association of Neurooncology (AINO) database.

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## Objective

The aim is to describe clinical, radiological, and molecular characteristics as well as surgical procedures, radiotherapy, chemoradiotherapy treatments for adult patients affected by medulloblastoma diagnosed between 2000-2015.



## Materials and methods

This is a retrospective multicenter observational retrospective study coordinated by UOC Neuro-oncology 2, Neurological IRCCS by Carlo Besta. This project will be developed through the creation of a network between the participating centers. The database will be compiled with clinical, histological/molecular, radiological, therapeutic, progression free survival and overall survival data will of all patients treated for this cancer in the participating centers in anonymized way.

DATI DEL PAZIENTE		ESORDIO DI MALATTIA		ESORDIO DI MALATTIA		ESORDIO DI MALATTIA		ESORDIO DI MALATTIA		
Sigla identificativa	Sesso	Data di nascita	Ultima visita effettuata	Data esordio sintomi	Sintomi di esordio	Epilessia (S/N)	Sindromi genetiche associate	Data dell'intervento (Sede Lesione)	Lato lesione (S/D)	Tipologia di lesione (S/D)
TOR1CA	M	1/12/1974	30/6/2016	05/2014	cefalea e cervicalgia, in	No	No	5/28/2014	cerebellare	dx
TOR2A	M	7/17/1982	20/10/2016	07/2015	cefalea progressiva e	No	No	8/28/2015	multifocale	Gross total
TOR3B	M	1/11/1991	11/7/2016	06/2014	Nausea mattutina con	No	No	7/9/2014	cerebellare	dx
TOR4T	F	21/3/1992	22/8/2016	09/2015	cefalea, vertigini, spaco	No	No	1/20/2016	epifissaria	Gross total

## Results and conclusion

To date, 26 patients (15 males and 11 females, median age 35) were included in the study. The most frequent onset symptom was headache (in 50% of patients); tumor localization was mainly in the cerebellar hemispheres. In three patients, cerebrospinal fluid was positive for tumor cells at diagnosis, suggesting a dissemination at the onset. Concerning tumor histology, 5/26 patients had a diagnosis of classic medulloblastoma, 10/26 desmoplastic, 10/26 NOS and in only one case anaplastic medulloblastoma. Sonic Hedgehog (SHH) mutation was found in 6 patients. Regarding treatments, all patients underwent craniospinal irradiation with boost on the posterior fossa. In 16/26 patients at high risk, was administered platinum and etoposide based chemotherapy.

In the near future it will be necessary to involve more centers to reach more patients and collect evaluable data. This will allow to define an optimal and homogeneous clinical management for adult medulloblastoma patients.

