

## INTRODUCTION

We describe a case report of father and son of Armenian origin diagnosed with Familial Cavernous Malformations.

## CLINICAL MANIFESTATIONS

✓ Father, 78 years old:

- left n. abducens palsy with diplopia to the left has been persisting for 1 year
- rare generalized tonic-clonic seizures in 3-th and 4-th decade
- secondary diffuse, tension-type, relapsing headache has been persisting for 2 year
- rapidly growing soft-elastic neck lump, about 20 cm in diameter, histologically confirmed as benign epithelial cyst (Fig. 1.)
- $\checkmark$  Son, 34 years old:
  - a cluster of 2 generalized tonic-clonic seizures in 2011



### Fig. 1. Soft-elastic neck lump (father)

### IGATIONS AND IMAGING INVESI

- Laboratory tests (FBC, basic metabolic panel, lipid panel) no abnormalities
- ELISA IgM negative for Toxocariasis, Toxoplasmosis and Echonococcosis (father) ✓ <u>Genetic testing:</u> negative for Von Hippel-Lindau Syndrome; detected
- c.1061\_1064dup mutation
- ✓ Imaging:
  - abdominal CT and fundoscopy no specific findings
  - head MRT typical finding of multiple brain cavernomas (Fig. 2. and 3.)



Fig. 2. Coronal MRT Cor 2 MERGE image (father) – multiple hypointense sub- and supratentorial lesions \*additional finding (red line) - homogenous liquid equivalent lesion in left neck region

# **Clinical description of Familial Cavernous Malformations**

M. Peycheva<sup>1</sup>, E.Viteva<sup>1</sup>, A.Trenova<sup>1</sup>, O. Chaneva<sup>1</sup>, Z. Zahariev<sup>1</sup>, E. Tournier-Lasserve<sup>2</sup>

<sup>1</sup> Department of Neurology, Medical University - Plovdiv, Bulgaria, <sup>2</sup> Service de génétique moleculaire neuro-vasculaire, Hôpital Lariboisière - Paris, France





trapped protein 1

BINDING
β <sub>1</sub> integrin cytoplasmi
nuclear, extra intracellula protein int
RAS G
F-actin and membrane

INHERITANCE PATTERN	Autosomal
Gene	KRIT1, anke conta
Protein	Krev interact prote
Locus	7q2
MUTATION	c.1061_1
RESULT	p.Ser356

## **Central Nervous System Disorders & Therapeutics**

October 02-03, 2017 Vienna, Austria



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