# EPILEPSY WITH AUDITORY FEATURES (EAF): long-term outcome in a large cohort



Bisulli F<sup>1,2</sup>, Menghi V<sup>1,2</sup>, Stipa C<sup>1,2</sup>, Gizzi M<sup>2</sup>, Vignatelli L<sup>1,2</sup>, Licchetta L<sup>1,2</sup>, Leta C<sup>1,2</sup>, Tinuper P<sup>1,2</sup>

<sup>1</sup>IRCCS Institute of Neurological Sciences of Bologna, Italy

<sup>2</sup> Department of Biomedical and Neuromotor Sciences, University of Bologna, Italy

### **Purpose:**

•To define the outcome of EAF in terms of 5-year seizure freedom rate (Terminal Remission, TR) •To identify possible prognostic factors

## **Methods:**

**Inclusion criteria** •Diagnosis of EAF  $\rightarrow$  clinical history of at least 2 lifetime seizures with auditory and/or aphasic features as first symptoms •Follow-up period  $\geq$  5 years **Primary endpoint**  $\rightarrow$  5-year SF at last follow-up (Terminal Remission)

Study design: cohort-study Recruitment: prospective (since 2001)/retrospective

Participants and setting/eligibility criteria: patients of any gender and age, referred between 1975 and 2016 to our Epilepsy Center with a history of epileptic seizures with auditory and/or aphasic features

Data collection: semi-structured interview (direct/telephonic) from Dec, the 1st 2014 to July, the 8th 2016 and review of medical records (last visit recorded)

### **Results:**



#### **Prognostic study on 137 pts:**

- Mean of follow-up duration: 19 yrs
- M:F=64:73
- Median age at last follow-up: 42 yrs

Clinical features of 155 EAF pts		Valid %
Male		47%
Negative family history of epilepsy		83%
Etiology	Structural Focal cortical lesions Gross/Multiple Abnormalities	12.3%
		3.2%
	Genetic	9%
	Unknown	75.5%
Personal history	Developmental delay	0.6%
	Intellectual disability	1.3%
	Febrile Seizures	11%
Low seizure frequency at onset		78.7%
Bilateral convulsive seizures		84.5%
Seizures in sleep		53%
Interictal EEG	Epileptiform	35%
	Normal or Aspecific	65%
AED ≥2		28.4%
Surgical treatment		6.5%
Relapse after drug withdrawal		78.7%

**Univariate analysis (Log-rank test)** 

#### Diagnostic delay in 81/155 pts: median 5 yrs For no medical counseling (42) or misdiagnosis (39)



Median age at onset: 17 yrs (IQR: 12–26) Median age at diagnosis: 22 yrs (IQR: 17–32)









# **Conclusion:** prognostic features of EAF

•Cumulative Terminal Remission (TR) rate  $\rightarrow$   $\cong$  25% after 10 yrs of follow-up  $\rightarrow$  50% after 40 yrs of follow-up

•Positive predictors of TR (multivariate analysis)

 $\rightarrow$  age at onset > 10 yrs

 $\rightarrow$  absence of any underlying brain disorder

 $\rightarrow$  auditory illusions

Diagnostic delay not associated with increased risk of NTR

# XLVII CONGRESSO NAZIONALE

# WebPoster



### 22-25 OTTOBRE 2016 – VENEZIA

