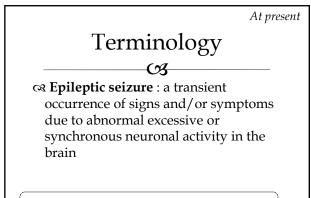


Commission on Classification and Terminology of ILAE

- ন্থে Classification of Epileptic Seizures in 1981 ন্থে Classification of Epilepsies and Epileptic syndromes in 1989
- A proposed diagnostic scheme for people with epileptic seizures and with epilepsy : Report of the ILAE Task Force on Classification and Terminology in 2001
 2006,.......2010,2011,.....

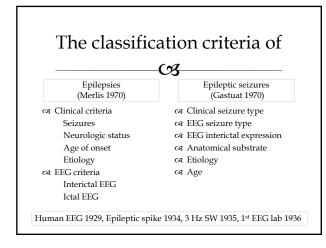
At present

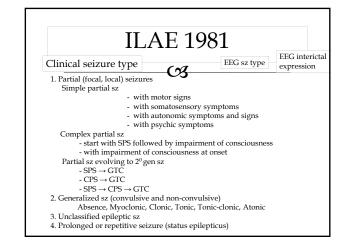


Seizure, Greek meaning, to take hold

Terminology

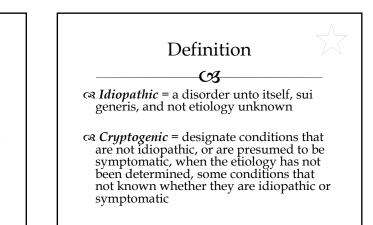
- C Epilepsy: a disorder of the brain characterized by an enduring predisposition to generate epileptic seizures, and by neurobiologic, cognitive, psychological and social consequences of the condition.
- The definition of epilepsy requires the occurrence of at least "one epileptic seizure"



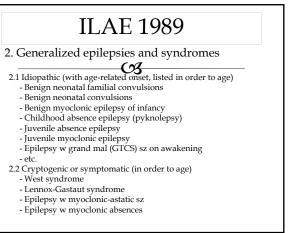


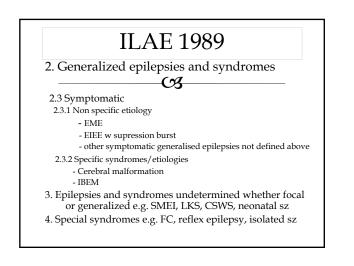
Classification of Epilepsies and Epileptic syndromes in 1989

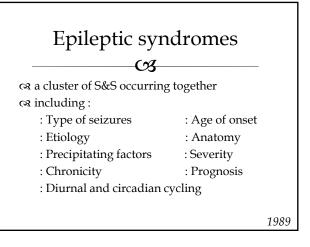
∞ The term partial is replaced with
" localization-related " but after
2001 returns to use the same word-focal
∞ Term : *Idiopathic, Cryptogenic, Symptomatic* is introduced



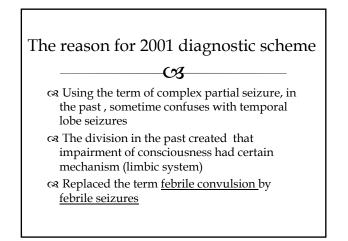
ILAE 1989 1. Localization-related epilepsies and syndromes C3 1.1 Idiopathic - benign childhood epilepsy with centro-temporal spike - childhood epilepsy with occipital paroxysms - primary reading epilepsy 1.2 Symptomatic e.g. TLE, FLE, PLE, OLE 1.3 Cryptogenic





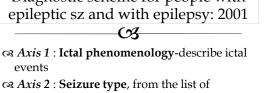


	hotomies, classification	Cryptogenic Special syndromes
	Localization-related	Generalized
Idiopathic	Localization-related Idiopathic e.g. BRE	Generalized Idiopathic e.g. CAE, JAE, JME
Symptomatic	Localization-related Symptomatic e.g. TLE, FLE	Generalized Symptomatic e.g. LGS, West synd
	1	



Diagnostic scheme for people with The reason for 2001 diagnostic scheme CB-B R Misunderstanding of the correct definition of idiopathic, cryptogenic. events R But the Task Force believes that most epileptic seizures. epileptologists have now learned to use the term correctly and that there is value in maintaining continuity. syndromes

ন্থ Great believe that in the near future, genetic classifications of certain epilepsy syndromes will become possible.



- ∝ Axis 3 : Syndrome, from the list of epilepsy
- ⊲ Axis 4 : Etiology
- ⊲ Axis 5 : Impairment

Epilepsia 2001; 42:796-803

Epilepsy syndromes and related conditions	
Benign familial aconatal seizures Early myceloice encephalopathy Oltabaa syndrome Wigranto partial seizures of infancy Benign mycelonic seizures (marking) Benign familial seizures (on-familial) Drawt's syndrome HHE syndrome Mycelonic status in non-familial) Drawt's syndrome HHE syndrome PHU syndrome Phycentic status in non-progressive encephalopathies Benign childhood occipital epilepsy (fastaut type) Epileps with mycolonic astatis esizures Late onset childhood occipital epilepsy (Gastaut type) Epilepsy with mycolonic astatis esizures LandaKleffner syndrome Epilepsy with mycolonic astatis esizures Childhood abscence spliepsy Prolesperist Childhood sence spliepsy Progressive mycolonus epilepsies	Biopublic generalized epilepises with variable phenotypes Inventile absence epilepis The second secon
Epilepsia 2001, Epilepsy research 2006	Immediate and early post cerebral insult seizures Single seizures or isolated clusters of seizures

Epilepsy syndrome: A complex of signs and symptoms that define a unique epilepsy condition. This must involve more than just the seizure type: thus frontal lobe seizures per se, for instance, do not constitute a syndrome. (changed concept) sequelas (clarified concept). Refler epilepiny syndrome: A syndrome in which all epilepits sciraters are precipitated by sensory stiantik. Reflex se parentized epilepiny syndromes that are also associated with operataneous seizures are listed as scirate types. Isof score in situations that do not necessarily require a diagnosis of epilepys. Scizares precipitated by other special or alcohol withfrowal, are not reflex scizares (charged concept). Fixed scizares and syndromes: Replaces the terms partial scizares and localization-related syndromes (charged to the terms of the science e no longer recommended, nor will they be rep seizures, but will not be used to classify specifi psy, with no underlying structural brain lesion age-dependent (unchanged taxes) nchanged term). the result of one or more identifiable str Epilepsia 2001, Epilepsy research 2006

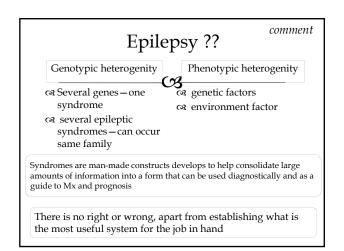
Comment for 2001 diagnostic scheme

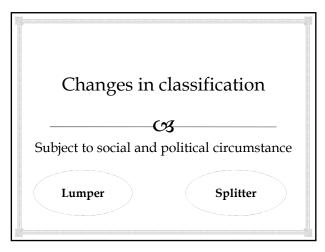
CB-

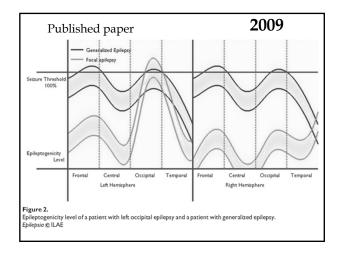
- A syndromic diagnosis cannot be made in many pts with epilepsy
- ca But the percentage of pts for whom a syndromic diagnosis is not possible has varied from one study to another
- A Syndromic diagnoses are most useful in pediatric epileptology esp in children with idiopathic epilepsies but in focal symptomatic epilepsy is in doubt
- ন্থ Difficult to make syndromic diagnoses at the time they appear with new onset epilepsy

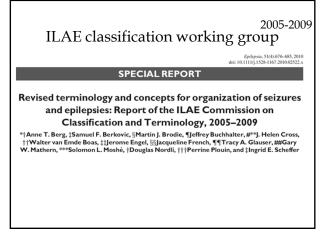
Difference between the approach : Cleveland Clinic and ILAE diagnostic scheme

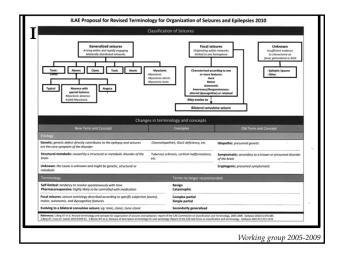
Cleveland 2005 (a patient-oriented approach)		ILAE 2001 (a category-based approach)	
Dimension 1	Epilepsy localization (EZ)	Axis 1	Ictal phenomenology
Dimension 2	Seizure semiology	Axis 2	Seizure type
Dimension 3	Etiology	Axis 3	Syndrome
Dimension 4	Seizure frequency	Axis 4	Etiology
Dimension 5	Related medical condition if applicable	Axis 5	Impairment

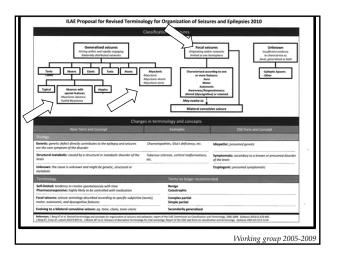




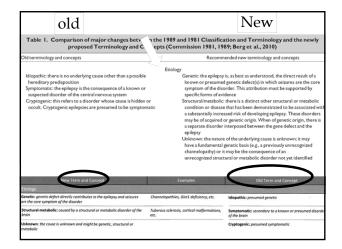


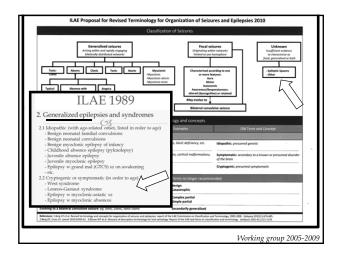


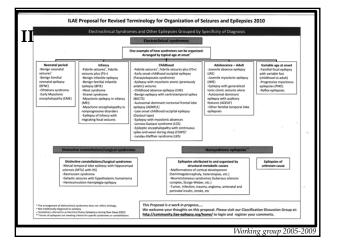


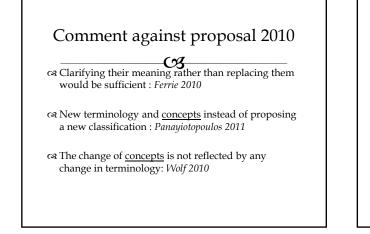


	Commission 1981, 1989; Berg et al., 2010)		
Old terminology and concepts	Recommended new terminology and concepts		
For seizures	generalized		
For seizures Focal (previously "partial"): the first clinical and electro encephalo- graphic changes indicate initial activation of a system of neurons limited to a part of one cerebral hemisphere	Focal seizures are conceptualized as originating at some pol- within networks limited to one hemisphere		
Generalized: the first clinical changes indicate initial involvement of both hemispheres	Generalized seizures are conceptualized as originating at some point within and rapidly engaging bilaterally distributed networks		
For epipepies Localization-related (focal, partial): epilepsies with focal seizures Generolized: epilepsies with generalized seizures	These terms were abandoned as overarching categories for classify epilepsies per se, as many syndromes include both seizure types; the may still apply in some but not all instances		
erminology	Terms no longer recommended		
elf-limited: tendency to resolve spontaneously with time harmacoresponsive: highly likely to be controlled with medication	Benign Catastrophic		
	uras), Complex partial Simple partial		
ocal seizures: seizure semiology described according to specific subjective (au notor, autonomic, and dyscognitive features	Simple partial		



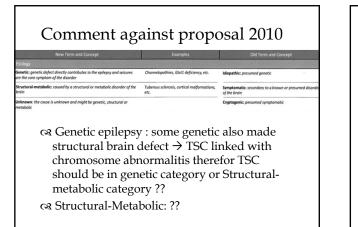


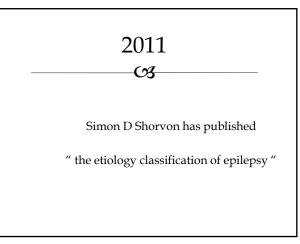


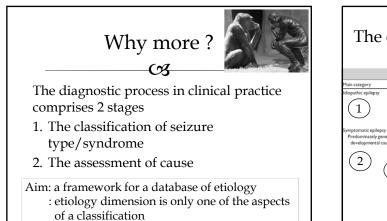


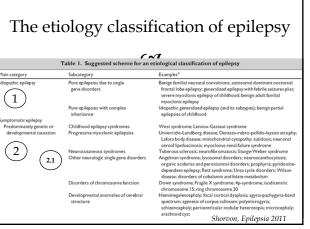
Comment against proposal 2010

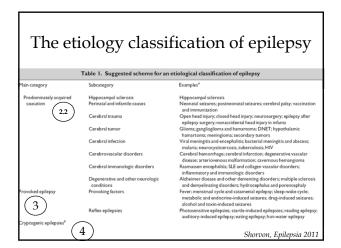
- CR Free text descriptions of the numerous types of focal epileptic seizures are fine in a manual of differential diagnosis but should not be used as a classification system and makes futures research, epidermiology and comparisons difficult : *Fisher 2010*
- © Dose not agree with " focal seizure that be described according to their manifestation" : *Panayiotopoulos* 2011

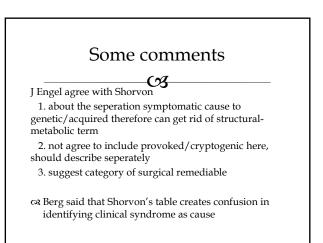












Compromised Approaches

Two-tiered classification M Wong 2011 Categorized according to both semiology/syndrome

Categorized according to both semiology/syndrome and causes

First Tier: Describe the most specific syndrome/sz **Second Tier**: Identified etiologies or unknown is specified

Epilepsy syndrome X secondary to Cause Y

৹ e.g. JME secondary to GABRA1 mutation

JME secondary to unknown cause

JME secondary to a malformation of a cortical development

Compromised Approaches

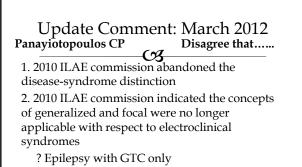
Two-tiered classification M Wong 2011

বে Nonsyndromic epilepsy→ Symptom based classification

e.g. Epilepsy with partial/focal seizure secondary to cause Y

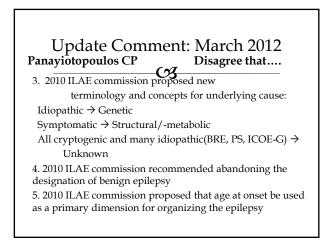
🛯 Multifactorial causes

e.g. Epilepsy syndrome X secondary to traumatic brain injury and SCNA1 mutation



? IGE: CAE

? Familial (AD) focal epilepsy



Update Comment March 2012

Luder et al. The commission should specify the purpose of the classification

- 1. Suggest to use the Four dimensions
 - Location

Seizures symptomatology

Etiology

- Related medical conditions
- 2. Suggest ILAE to abandon the current approach of defining hundreds of epileptic syndromes that difficult to memorize



The Near Future

B

CR Commission on Classification (2009-2013) is preparing the final draft, to be submitted for approval by ILAE general assembly at 2013 International Epilepsy Congress

51655

