

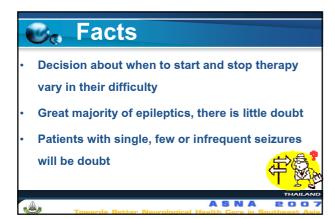




.

ASNA

200









Risk from AEDs

- 1. Bone disorder
- 2. Body weight
- 3. Metabolic acidosis
- 4. Renal stone
- 5. Thyroid disorders
- 6. Lipid disorders
- 7. Reproductive system



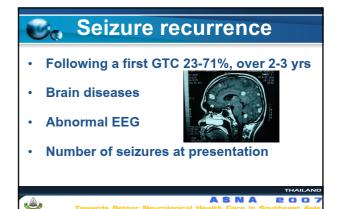


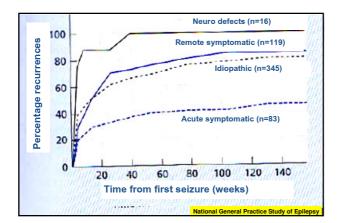
Factors influencing treatment or not? Risk of recurrent seizures Risk of seizures itself

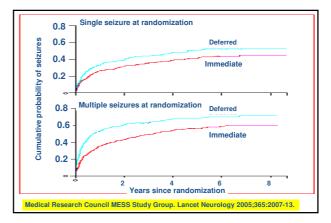
ASNA

200

Risk of treatment

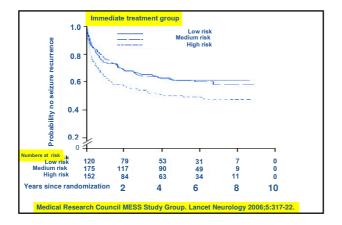


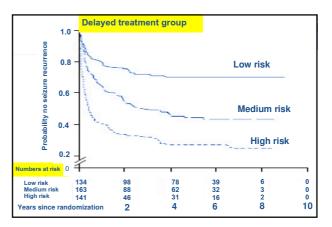




Prognostic model for prediction of seizure recurrence for first seizures and early epilepsy		
Seizure number	Score	
One seizure at presentation	0	
Two seizures at presentation	1	
Three or more seizures at presentation	2	
Add if present		
Neurological disorder/deficit, learning	+1	
disability, or developmental delay		
Abnormal EEG	+1	
Medical Research Council MESS Study Group. Lancet Neurology 2006;5:317-22.		

Prognostic model for prediction of seizure recurrence		
Risk classification group	Final score	
Low risk	0	
Medium risk	1	
High risk	2-4	
Medical Research Council MESS Study Group. Lancet Neurology 2006;5:317-22.		
Towards Better Neurological Hea	ASNA 2007 Ith Care in Southeast Asia	





Prognostic model for prediction of seizure recurrence Medical Research Council MESS Study Group. Lancet Neurology 2006;5:317-22.			
Treatment	Probability of	Probability of	
	seizure by 1 yr	seizure by 3 yr	
<u>Medium risk</u>			
Start	0.23	0.34	
Delay	0.34	0.48	
<u>High risk</u>			
Start	0.35	0.46	
Delay	0.57	0.67	

Criteria for starting antiepileptic drug therapy	
Diagnosis of epilepsy must be firm	
Risk of recurrence of seizures must be sufficient	
Seizures must be sufficiently troublesome	
Good compliance must be likely	
Patient has been fully counseled	
Patient's wishes have been fully accounted	

Construction Facts

- Patient 70% will attain long-term remission of 2 or more years
- Decision making about whether or not to continue with AEDs is difficult
- AEDs may or may not interact with natural history
- Little information about the risk of chronic effects of AEDs

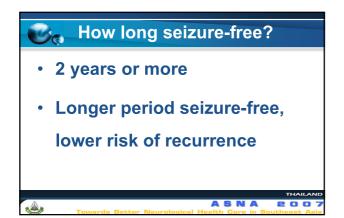
Metabolic disorders from AEDs

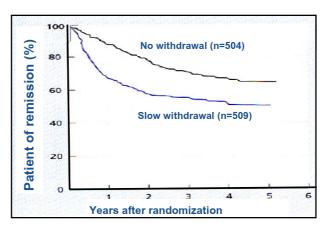
- 1. Bone disorder
- 2. Body weight
- 3. Metabolic acidosis
- 4. Renal stone
- 5. Thyroid disorders
- 6. Lipid disorders
- 7. Reproductive system

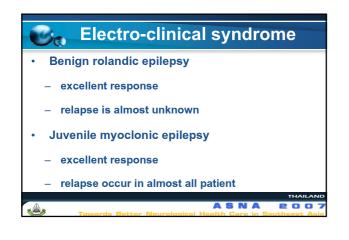




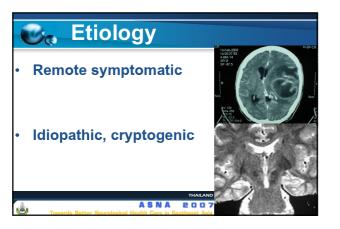




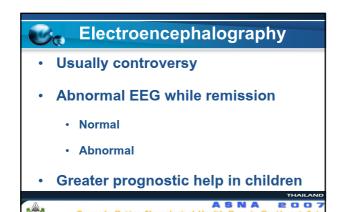




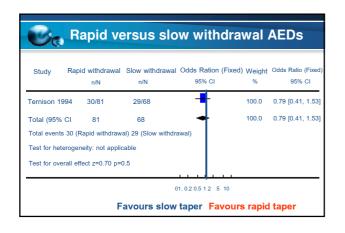




C	Severity
•	Status epilepticus
•	Duration
•	Number
•	Polytherapy
•	Previous failed stop AEDs
	THAILAND A S N A 2 0 0 7 Towards Better Neurological Health Care in Southeast Asia



Co	Factors	Score
	Starting score	-175
	Age at onset > 16 yrs	45
	More than 1 AED	50
	Attack after start AED	35
	GTC (primary or secondary)	35
	Myoclonic seizure	50
	EEG while remission	
	Not done	15
	Abnormal	20
	Duration of seizure-free = D (yr)	200/D









References early epilepsy and single seizures: a randomised controlled trial. Lancet 2005;365:2007–13.

2. Lois G Kim, Tony L Johnson, Anthony G Marson, et al. Prediction of risk of seizure recurrence after single seizure and early epilepsy: further results from the MESS trial. Lancet Neurol 2006;5:317-22. 3. Chadwick D. Starting and Stopping Treatment for Seizures and Epilepsy. Epilepsia

2006;47(Suppl.1):58-61.

4. Schmidt D. Strategies to prevent overtreatment with antiepileptic drugs in patients with epilepsy. Epilepsy Research 2002;52:61-9.

5. S.D. Lhatoo, J.W.A.S. Sander. Stopping Drug Therapy in Epilepsy. Current Pharmaceutical Design 2000;6:861-3.

6. Chadwick D, Reynolds E H. When do epileptic patients need treatment? Starting and stopping nedication. BMJ 1985;290:1885-8.

7. Medical Research Council Antiepileptic Drug Withdrawal Study Group. Prognostic index for

ecurrence of seizures after remission of epilepsy. BMJ 1993;306:1374-8. 8. Ranganathan LN, Ramaratnam S. Rapid versus slow withdrawal of antiepileptic drugs (Review). The Collabo ation 2006:1-12

- Contraction of the second se	
Total score	т
• Exponentiation T/100 (Z = e ^{T/100})	Z
	THAILAND
Towards Better Neurological Health Care in S	euu /

100 co	
	Probability of seizure recurrence
	By 1 yr By 2 yr
On continued treatment	1-0.89 ^z 1-0.79 ^z
On slow withdrawal of treatment	1-0.67 ^z 1-0.60 ^z
	THAILAND
Towards Better Neurological H	ASNA 2007 ealth Care in Southeast Asia