

Managing Medical Refractory Cases with Newest Generation AEDs: What Can We Expected?



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กลุ่มวิจัยโรคลมชักแบบบูรณาการ มหาวิทยาลัยขอนแก่น

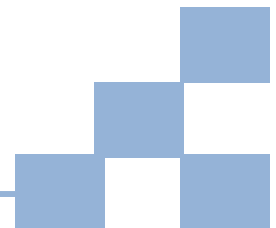
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Global trials: Newest AEDs

เริ่มทำวิจัยครั้งแรกเมื่อปี พศ. 2544

- Levetiracetam
- Topiramate
- Zonisamide
- Retigabine
- Carisbamate
- Pregabalin
- Lacosamide
- Perampanel
- SKL YKP3089C017

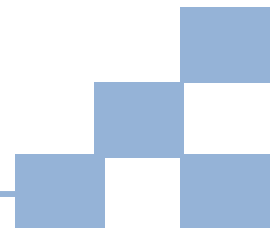
New target and
Mechanism of Action





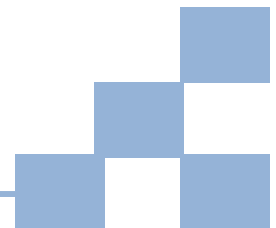
Experience

- ❖ More than 200 PWE
- ❖ Monotherapy and add-on therapy
- ❖ Efficacy, compliance, adverse events
- ❖ Pharmacokinetic, genetic study



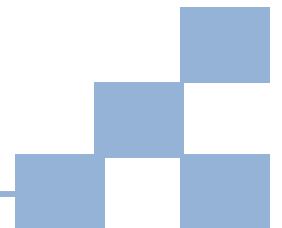
What we learn?

- ❖ Standard operation
- ❖ Good clinical practice
- ❖ How to conduct clinical study
- ❖ How to manage clinical trial
- ❖ Knew the inside and detail of study; more than published paper
- ❖ What are bias
- ❖ Budget



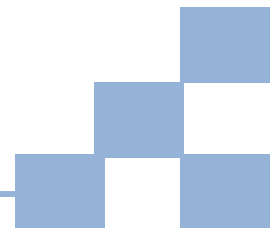
What is the benefit/drawback for PWE

- ❖ Participate in clinical trials
- ❖ Budget
- ❖ Treated with newest AEDs
- ❖ Extensive workup without cost
- ❖ Intensive monitor clinical outcome/
adverse events
- ❖ Exposed unexpected adverse events



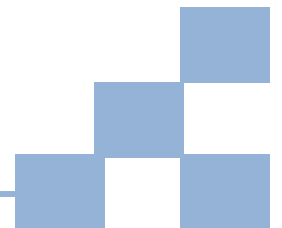
How to improve seizure control

- ❖ New AEDS used
- ❖ High efficacy
- ❖ Less adverse events
- ❖ Quality of life
- ❖ Hospital anxiety depression
- ❖ Suicidal idea/attempt score
- ❖ No cost
- ❖ Travel expense



What is the result?

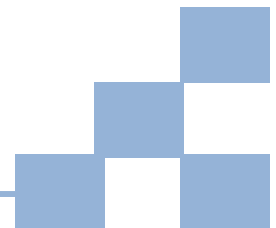
- ❖ Most of participant were improved
- ❖ All of participant were agree with clinical trials
- ❖ Few of participant had adverse events
- ❖ HAPPY





Efficacy of Newest AEDs

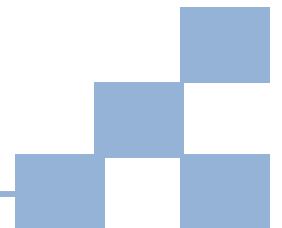
- ❖ Same as new/standard AEDs
- ❖ Less drug interaction
- ❖ Less well known side effects
- ❖ No information of long term side effects
- ❖ No information long term compliance/adherence





What I Expect ?

- ❖ Newest AEDs were approved in international CPG
- ❖ Newest AEDs were more expensive
- ❖ Few Thai intractable seizure used newest AEDs



What we do improve management of PWE

- ❖ Good clinical practice in real life
- ❖ Good doctor-patient relation
- ❖ Familiar with new AEDs
- ❖ Familiar with new and unexpected adverse events

