

# SEIZURE RELATED INJURY PREDICTION

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## Welcome!

Welcome to the home page of seizure related injury prediction. The information on this website was created by the epilepsy research group at Srinagarind hospital, Department of Medicine, Faculty of Medicine, Khon Kaen University (KKU), Thailand. You are welcome to visit our website at [Epilepsy Research Group, KKU](#) to get more information about epilepsy.

Here, we invite epilepsy patients and clinicians to easily predict the risk of having seizure related injury in individuals. Please follow the instructions below.

## Instructions

Based on our research study, the formula below provides a simple way to calculate the chance of having a seizure related injury (SRI) in individuals who have epilepsy. Just fill out 5 questions below.

1. What is your age?
2. How many antiepileptic medications do you take?
3. What is your seizure type? If you have generalized tonic-clonic seizure, choose 1. Other

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## Instructions

Based on our research study, the formula below provides a simple way to calculate the chance of having a seizure related injury (SRI) in individuals who have epilepsy. Just fill out 5 questions below.

1. What is your age?
2. How many antiepileptic medications do you take?
3. What is your seizure type? If you have generalized tonic-clonic seizure, answer 1. Other types answer 0.
4. Do you have seizure attacks at least once a month? If yes, answer 1. If not, answer 0.
5. Do you have daytime seizure attacks? If yes, answer 1. If not, answer 0.

From these five answers, you will get the probability of the occurrence of an SRI. The highest probability is 1. If you multiply the calculated number by 100, it will give you the probability as a percentage.

## Formula

# SRI Probability

Age (years):

### Formula

## SRI Probability

Age (years):

Number of AEDs:

GTCs:

Frequency:

Daytime seizure:

Probability of SRI:

Age 30 with 1 GTC/month, day-time attack, 3 AEDs

### Formula

## SRI Probability

Age (years):

Number of AEDs:

GTCs:

Frequency:

Daytime seizure:

Calculate SRI

Probability of SRI:

**Chance of SRI 81 %**

# ความร่วมมือแบบสหสถาบัน

Relationship between *HLA-B\*1502* and carbamazepine-induced severe cutaneous adverse reactions in a Thai population

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Asian countries including Thailand. A strong association between *HLA-B\*1502* and CBZ-induced SJS/TEN has been reported in Han Chinese but not in Caucasian and Japanese populations. In order to determine whether the *HLA-B\*1502* is the valid pharmacogenetic marker for SJS/TEN caused by CBZ in a Thai population, this large cohort study was conducted.

**Methods:** Forty-two CBZ-induced SJS/TEN and 42 CBZ-tolerant patients were recruited in this study. The presence of *HLA-B\*1502* and *HLA-B* genotypes were analyzed using a PG1502 DNA detection kit and sequence-based typing, respectively.

**Results:** Among 42 CBZ-induced SJS/TEN patients, 37 (88.10%) patients carried the *HLA-B\*1502* while only 5 (11.90%) of the control had this allele. The risk of CBZ-induced SJS/TEN was significantly higher in the patients with *HLA-B\*1502* with odds ratio of 54.76 (95% CI 14.62 – 205.13,  $p = 2.89 \times 10^{-12}$ ). The sensitivity and specificity of *HLA-B\*1502* for prediction of CBZ-induced SJS/TEN were 88.10%.

**Conclusion:** A strong association of CBZ-induced SJS/TEN with the *HLA-B\*1502* allele was observed in a Thai population. Our results suggest that *HLA-B\*1502* may be a useful genetic marker for screening Thai individuals who may be at risk for CBZ-induced SJS and TEN.

**Epilepsy research** ง่ายกว่าที่คิดครับ

**I' M P O S S I B L E**



**OBAMA**

**O- Originally**

**B - Born in**

**A - Africa to**

**M - Manage**

**A - America**

# สาขาประสาทวิทยา ภาควิชาอายุรศาสตร์ มช.

- Staff 3 neurologist

- Resident 11/

จะทำงานวิจัยได้อย่างไร ??????

ภาระงานมาก ๆ ๆ ๆ ๆ ๆ ๆ ๆ ๆ ๆ ๆ ๆ

การสร้างเครือข่าย สหสาขาวิชาชีพ กลุ่มวิจัย

ผู้ป่วยจำนวนมาก

ทรัพยากรมาก



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- ◎ การเผยแพร่ข้อมูลทาง website <http://epilepsy.kku.ac.th>

# รางวัลนักวิจัยสาขาวิทยาศาสตร์สุขภาพ ปี 2550 และ 2551



