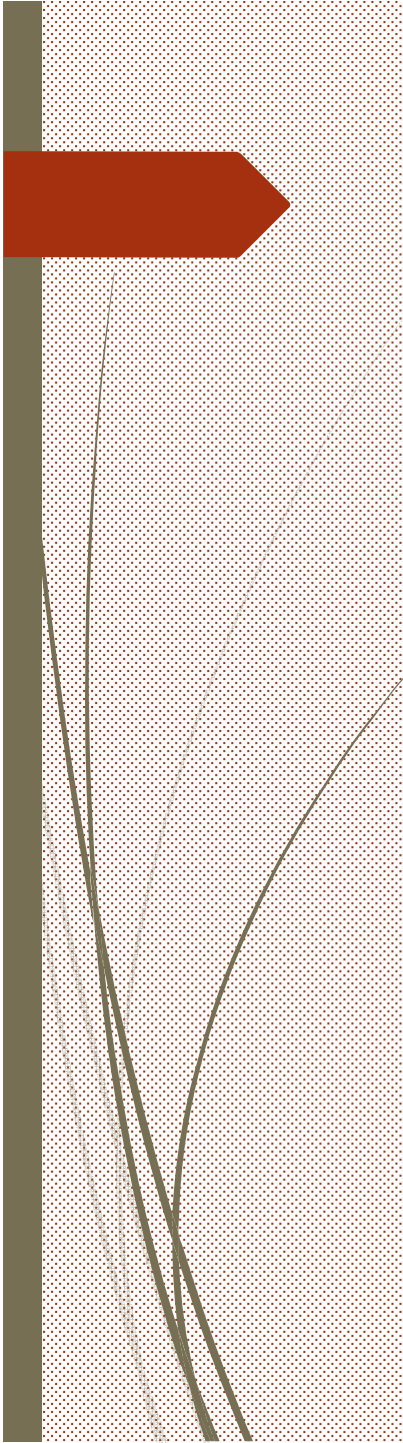


Localization & differentiation of etiologies in neurology

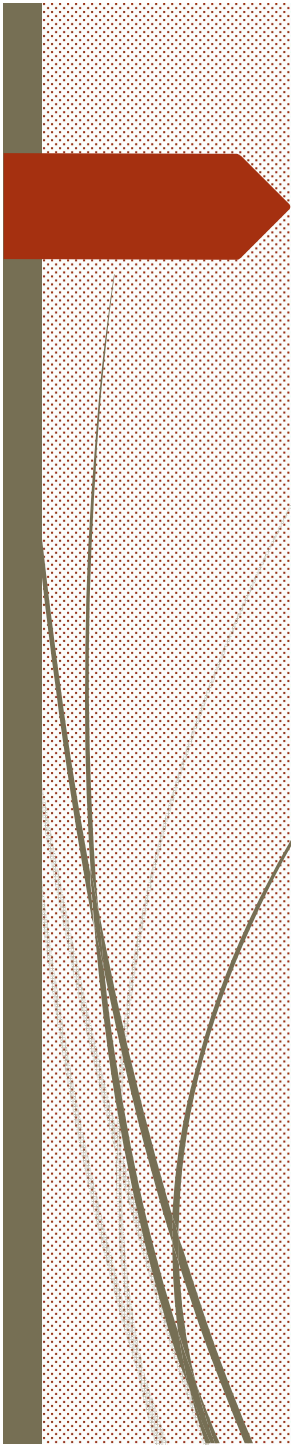
Pornchai Sathirapanya

Neurology division, Dept. of Internal Medicine
Faculty of Medicine, PSU.



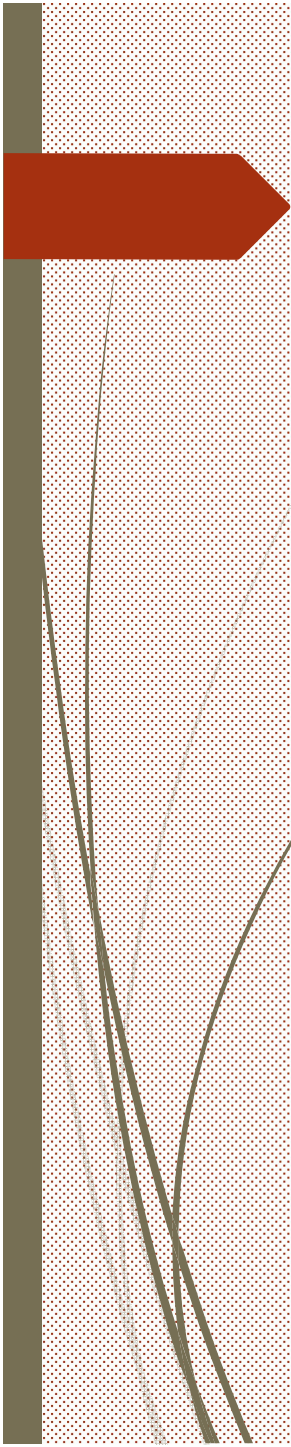
Outline

- Components of neurological diagnosis
- What are the essentials for N diagnosis
 - a. neuro-anatomy
 - b. pathophysiology
 - c. clinical chronology (course)
 - d. natural course of each etiology
- History (information) gathering, clarification and validation



Components of Neurological diagnosis

- **Anatomical Dx.**
(localization)
- **Differential Dx.**
(Etiologies of a disease/disorder)



Localization & Diff Dx. of etiologies

Localization

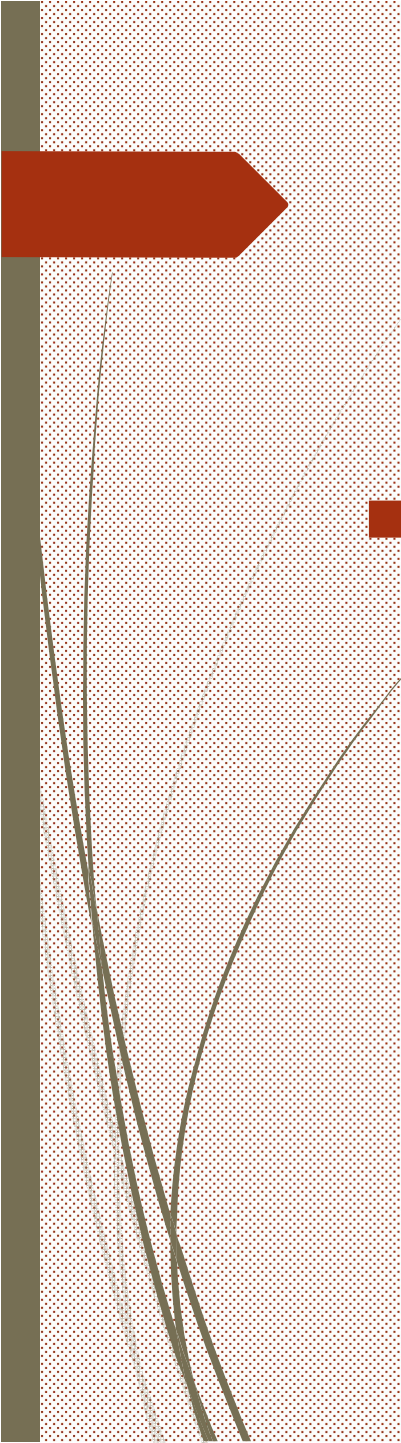
a. neuro-anatomy

Etiologies

b. pathophysiology

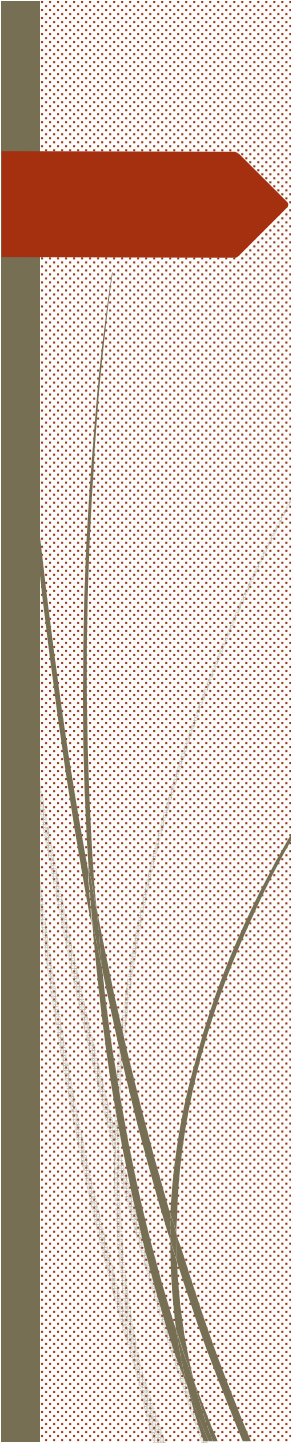
c. clinical chronology (course)

d. natural course of each etiology



➡ **Neuro-anatomy**

- common localizations***
should be known or recognized
- differentiate structure(s) involved**
- 3D imagine**



➡ Differential Dx.

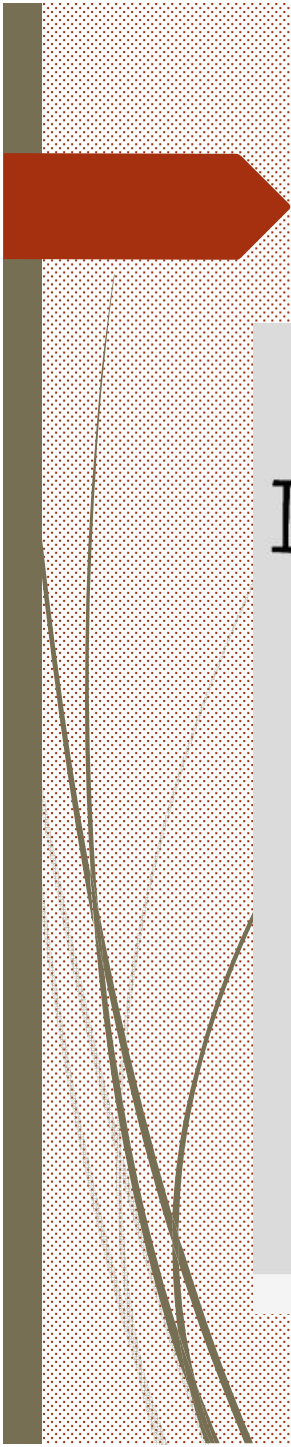
(Etiologies of disease/ disorder)

Requires comparison between

a. clinical chronology (course)

b. natural course of individual dis.

: Whether a. matches with b. ??

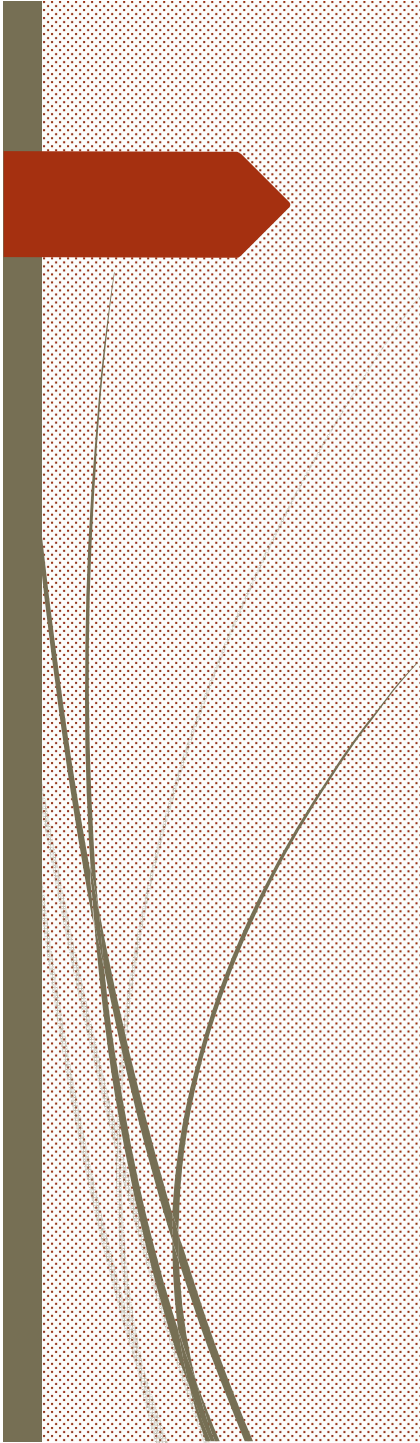


“Never theorize before you have data.
Invariably, you end up
twisting facts to suit theories
instead of theories to suit facts.”

—Sherlock Holmes



Sherock Holmes



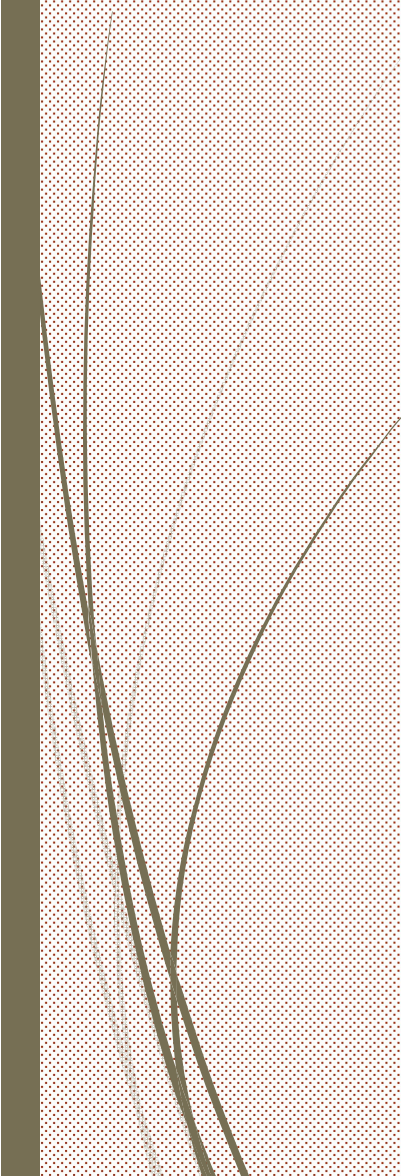
Methods to diagnose

- Pattern recognition
initially be used
- Conceptualization*
(rationale thinking)
experiences are needed

History taking, clarification, validation

- Avoidance of premature assumption : BIAS
- Listen carefully with caution
- Make the history taken '*DYNAMIC*', not '*STATIC*'
- *STATIC* Hx. : cross sectional information
- *DYNAMIC* Hx. : clinical chronology

FAQ : *Should 'leading questions' be used ??*



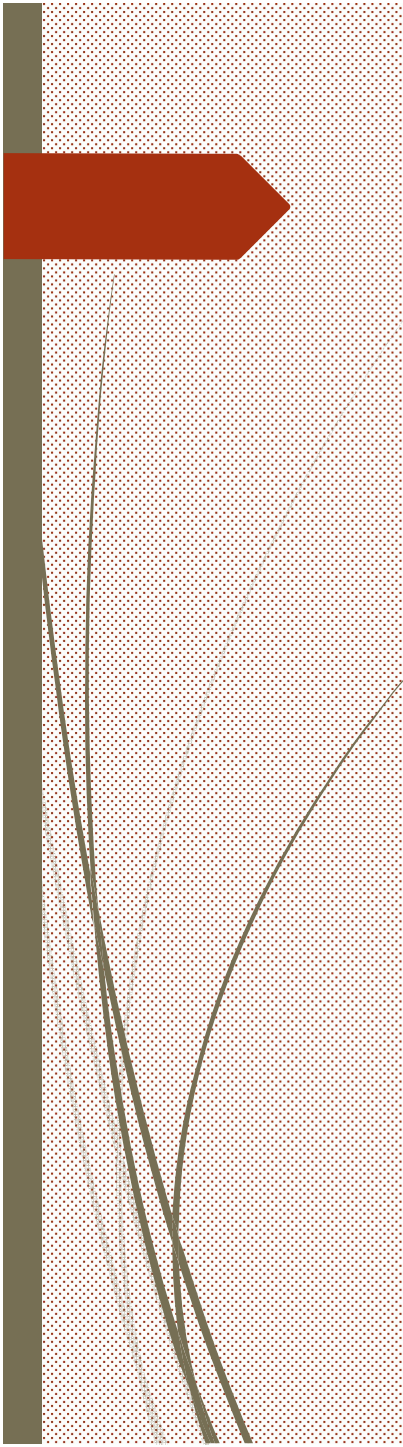
How Experts Think

**Listen! Listen to your patient
He is telling you the diagnosis**

William Osler

ศ. นพ.ประเสริฐ บุญเกิด เคยกล่าวไว้ว่า “หมอ
สมัยนี้ไม่ค่อยฟังคนไข้เวลาซักประวัติ อาจเป็นเพราะ
ชื่อว่า ‘ซักประวัติ’ เลยเอาแต่ซักไม่ฟังคนไข้พูด ”

จากหนังสือ คิดต่างอย่างปรมาจารย์



Neurological examination

- ▶ Though take a long time
 - complete exam is necessary for “skill” development for the beginners
- ▶ **Well-trained residents/ fellows require “short, precise and target-to-Dx.”**
Neurological Examination



Holmes's quote



YOU SEE, BUT
YOU DO NOT
OBSERVE.

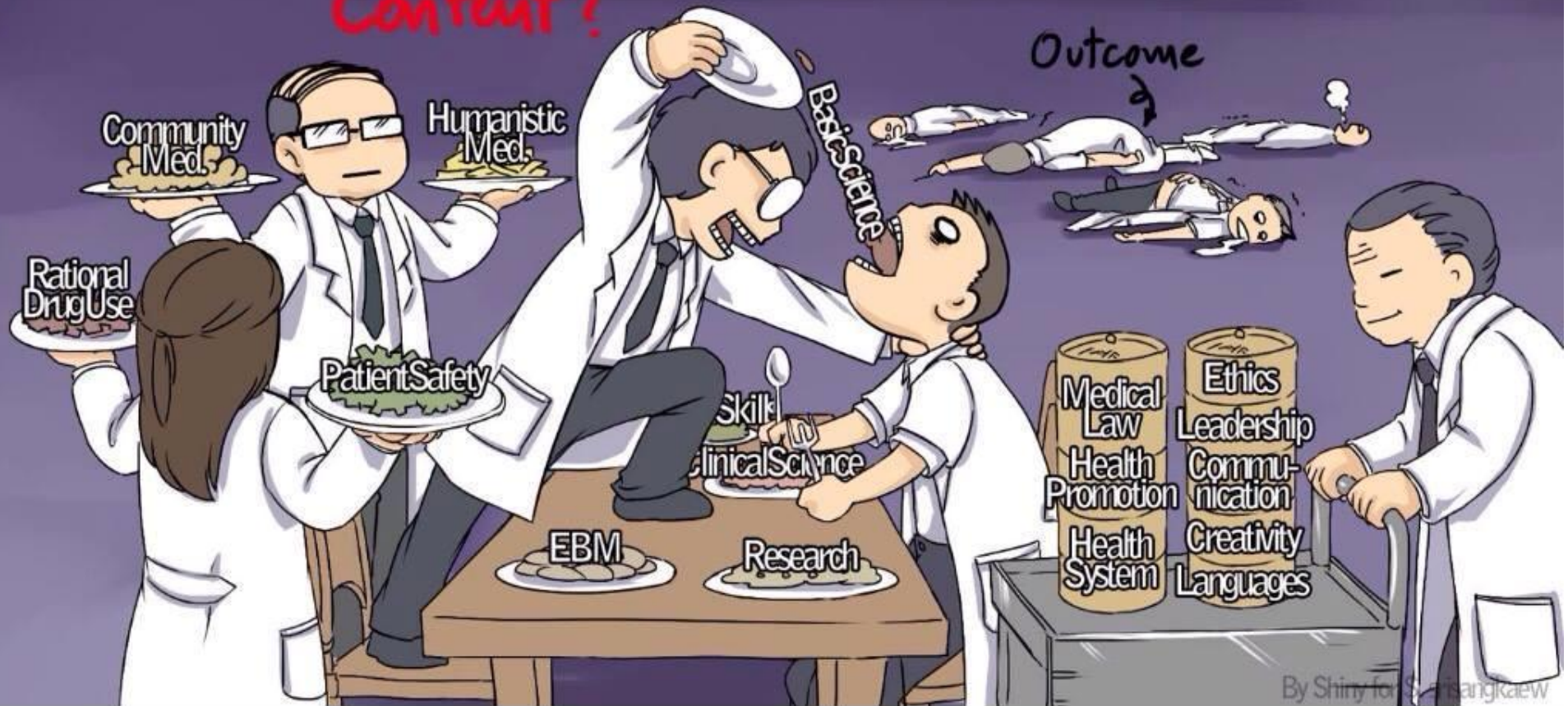


Teaching less, focusing on concepts instead of the contents

- Medical students (post-grad trainees)
eager to learn as much !
- Medical educators
should not be 'teachers' but 'mentors'!

Modified from William Osler's speech

~~Outcome~~-based Curriculum Content?



By Shiny for S. Sangkaew

Let's exercise your skills for Neurological diagnosis

Nothing too difficult to be overcome !!



**Repeat exercises are
required**



Last but not the least

I hate to see
you CRY, But I
love to see u
TRY.

Sherlock Holmes

meetville.com

