<b>CASE CONFERENCE</b> PCY 楊庭騎 朱佩心 指導者: 吳柏衡醫師 102.02.18	<ul> <li>Basic Data</li> <li>Age: 35 yrs</li> <li>Sex: male</li> <li>Date of visiting ER: day1</li> <li>Vital sign</li> <li>36.4/106/18 BP: 121/63 mmHg</li> </ul>
<ul> <li>chief complaint</li> <li>Skin rash for one month</li> <li>Present Illness</li> <li>Multiple skin rash with itchy sensation</li> <li>No fever</li> <li>Chills</li> <li>Allergy: denied</li> <li>No travel history</li> </ul>	
<ul> <li>當你遇到一個skin rash 病人時 你要問什麼?</li> <li>請講出常見有skin rash的疾病</li> <li>PE 要注意那些細節?</li> <li>什麼時候你會做進一步檢查?</li> </ul>	<ul> <li>What is your impression in this patient?</li> <li>What would you do next?</li> </ul>

# Something about Rash

#### Defined morphology and location.

- -- Morphology of the rash is usually distinct and related to the pathophysiologic dysfunction of the skin .
- The involvement of palms, soles, and mucous membrane is of key importance
   Dysphasia, as well as eye or genital irritation, may be a manifestation of as mucosal involvement.
- -- Rash's rapidity of progression is also an essential in diagnosis

BOX 191.1 Distribution and Progressio of a Rash		
DI	stribution and Spread	
Ð	gin peripherally, then spread centrally	
	<ul> <li>Rocky Mountain spotted fever</li> </ul>	
	<ul> <li>Erythema multiforme</li> </ul>	
	<ul> <li>Vasculitides</li> </ul>	
	gin centrally, then spread peripherally	
	<ul> <li>Viral exanthems</li> </ul>	
	- Smallpox	
	volvement of Palms and Soles	
Di	fluse involvement (more serious and lethal)	
	<ul> <li>Rocky Mountain spotted fever</li> </ul>	
	<ul> <li>Erythema multiforme</li> </ul>	
	<ul> <li>Stevens-Johnson syndrome</li> </ul>	
	<ul> <li>Toxic epidermal necrolysis</li> </ul>	
	- Syphilis	
	<ul> <li>Bacteremic endocarditis</li> </ul>	
	calized involvement	
	<ul> <li>Contact dermatitis</li> </ul>	
	<ul> <li>Infectious process</li> </ul>	
	volvement of Mucous Membranes	
	xic epidermal necrolysis	
	evens-Johnson syndrome	
	mphigus vulgaris	
	wasaki disease ai syndromes	
	pidity of Rash Progression	
	read in minutes	
	<ul> <li>Urticarial anaphytaxis</li> </ul>	
	read in hours	
	<ul> <li>Meningococcemia</li> </ul>	
	mad in days - Drug reactions	

# **PHYSICAL EXAMINATION TIPS**

- Evaluation of vital signs is essential. Fever and hypotension, in particular, are ominous
  - findings that mandate expedited and intensive care.
- New-onset heart murmur or nuchal rigidity
- Generalized lymphadenopathy (present with many illnesses, including mononucleosis,
- HIV infection, other infections, serum sickness, and drug reactions.)
   Exposure:
- -- back, buttocks, and perineum !

 $\ensuremath{\text{--}}$  Toenails should be inspected closely for signs of systemic disease or fungal infection

 Additionally, the fingers, toes, palms, and soles should be examined closely for the distribution of the rash and stigmata of endocarditis.

# **SPECIFIC SIGNS**

#### Nikolsky sign

Slight rubbing of the skin results in exfoliation of the outermost layer with lateral extension of the erosion into the intact skin

 Asboe-Hansen sign (indirect Nikolsky sign ) extension of a blister into normal skin with the application of light pressure on the top of the blister

\*\*All patients with tender, blistering, or sloughing skin should be evaluated serially for these important signs.

- Inquiry regarding the patient's travel, medical, occupational, recreational, and medicinal history is required.
- The differential diagnoses can be narrowed by categorizing the rash as erythematous, maculopapular, petechial/purpuric, or vesiculobullous.





### BOX 101-2 MIGRAINE WITHOUT AURA (COMMON MIGRAINE): INTERNATIONAL HEADACHE SOCIETY CRITERIA

- A. At least five attacks fulfilling criteria in B, C, D, and E B. Attack lasts 4 to 72 hours (untreated or unsuccessful
- Attack lasts 4 to 72 hours (untreated or unsuccessfu treated)
   Headache has at least two of the following characteristics:
   Unilateral location
   Pulsating quality
   Moderate to severe pain intensity
   Aggravation by or causing avoidance of routine physical activity (e.g., walking or climbing stairs)
   During headache, at least one of the following:
   Nausea or vomiting (or both)
   Photophobia and phonophobia
   Not attributable to another disorder

#### **Tension headache**

- Typically do not cause significant disability, and patients are able to continue with their normal daily activities.
- Stress and lack of sleep are implicated as triggering factors.
- Not worsen with physical activity.
- Average duration of the headache is 4 to 13 hours, with a maximum of 72 hours. Patients typically complain of a tight, bandlike discomfort around the head that is nonpulsating and dull
- May experience tightening of the neck muscles
- Accompanying symptoms such as nausea, vomiting, phonophobia, or photophobia are unusual.
- Anxiety and depression may coexist with chronic tension headache
- Physical examination will reveal tender areas of the scalp and neck with both tension and migraine headaches.

## **Cluster Headache**

- Only headache syndrome that is more common in men than in women
- Young to middle-aged adults who smoke, with a peak incidence in the late 20s
- Occur repeatedly over a defined time interval
- Several attacks can occur in 1 day, and a typical cluster period may last 6 to 8
- $\ensuremath{\mathsf{Precipitating}}\xspace$  factors : most notably the ingestion of alcohol,  $\ensuremath{\mathsf{Stress}}\xspace$  and climatic changes .
- Each headache lasts from a few minutes up to 2 hours.
- Typically begins with a unilateral sharp, stabbing pain in the eye, which may awaken the patient from sleep.
- Predictable fashion (i.e., holding a hand to the affected eye, rocking, rubbing the head, and pacing
- The attack subsides rapidly, often leaving the patient exhausted.
- The eye often is injected and tearing, and many patients have unilateral nasal congestion

### Secondary headache

- SAH. ICH
- Brain tumor
- Temporal arteritis
- Coratid or VA dissection
- Idiopathic IICP
- Acute glaucoma
- □ Intracranial infection: meningitis, abscess ...
- Trigeminal neuralgia

### Other Cause

- High-Altitude Headache
- Hypertensive Headache
- Medication-Induced Headache
- Cervicogenic Headache
- Post-Dural Puncture Headache
- Post-traumatic Headache

### **Red Flag signs**

- Sudden explosive headache; first or "worst-ever" headache;
- New-onset headache after age 50 years
- Headache associated with papilledema, alteration in or loss of consciousness, or focal neurologic symptoms
- Headache after head trauma
- Subacute headache with increasing frequency or severity
- Headache associated with fever, cancer, or immunosuppression;
- Headache triggered by exertion, sexual activity, or Valsalva maneuver



CSF       Color       Colorless         Appearance       Clear       Gram(+) Cocci       Not Found         Pandy's test       +       Gram(-) Cocci       Not Found         RBC       6       x109ul       Yeast       Not Found         WBC       8       x109ul       Yeast       Not Found         LN       8:0       India ink       Not found         Glucose       71       mg/dL       India ink       Not found         Initical pressure:       29.5 cm H2O       End pressure:       24.5 cm H2O	<ul> <li>Right hearing decrease</li> <li>No headache, No N/V, No delusion, No focal weakness/numbness</li> <li>ENT consultation <ul> <li>PTA : WNL</li> <li>Keep Acyclovir, may add topical use</li> </ul> </li> </ul>
<ul> <li>day3 01:57</li> <li>Focal seizure attacked, consciousness clear 01:57~02:02</li> <li>Neurologist consultation <ul> <li>Herpes encephalitis, simple partial seizure</li> <li>Arrange EEG</li> <li>EEG: no epilepi form discharge, normal a back ground</li> </ul> </li> </ul>	Infection doctor consultation         Impression: encephalitis, suspect viral or other etiology         Impression: encepha
Brain MRI on day5 • Subdural empyema and scalp infection	Biopsy <ul> <li>day3</li> <li>Ulcer, tissue eosinophilia</li> <li>day9</li> <li>Tissue eosinophilia</li> </ul>

#### Treatment

- Acyclovir 750mg iv Q8H
- Vancomycin 500 mg iv Q8H
- Ceftriaxone 2g iv Q12H
- SABS 500mg iv Q8H

#### Admission to Infection Ward on day8

Discharge on day17

Diagnosis

- Brain subdural empyema
- Multiple arthritis, skin involvement (eosinophilic dermatitis)

## TAKE HOME MESSAGE 1

#### SKIN RASH

- □ 型態
- □分布
- □ 有無發燒, 旅遊接觸史

#### RED FLAGS

Fever and petechiae/purpura Mucous membrane involvement Hemorrhagic bullae Nikolsky sign Nonpalpable petechiae with neurologic symptoms

## TAKE HOME MESSAGE 2

#### 🗆 Headache

- Primary headache的鑑別
- Secondary headache的鑑別
- Red flag signs

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#### Thank you for your attentation !