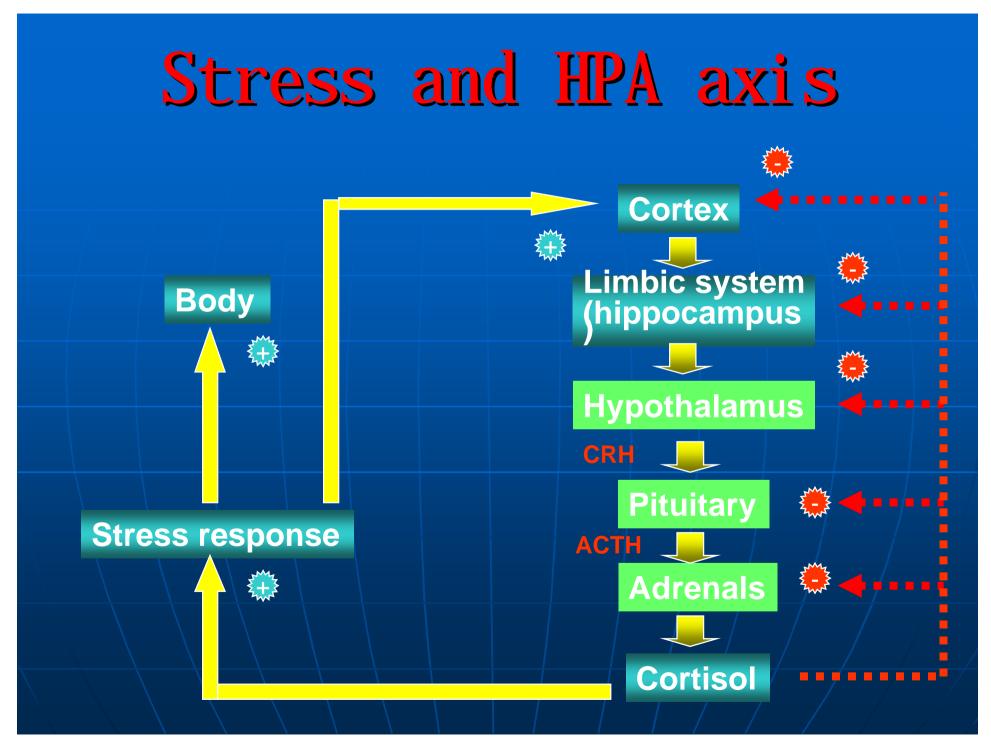
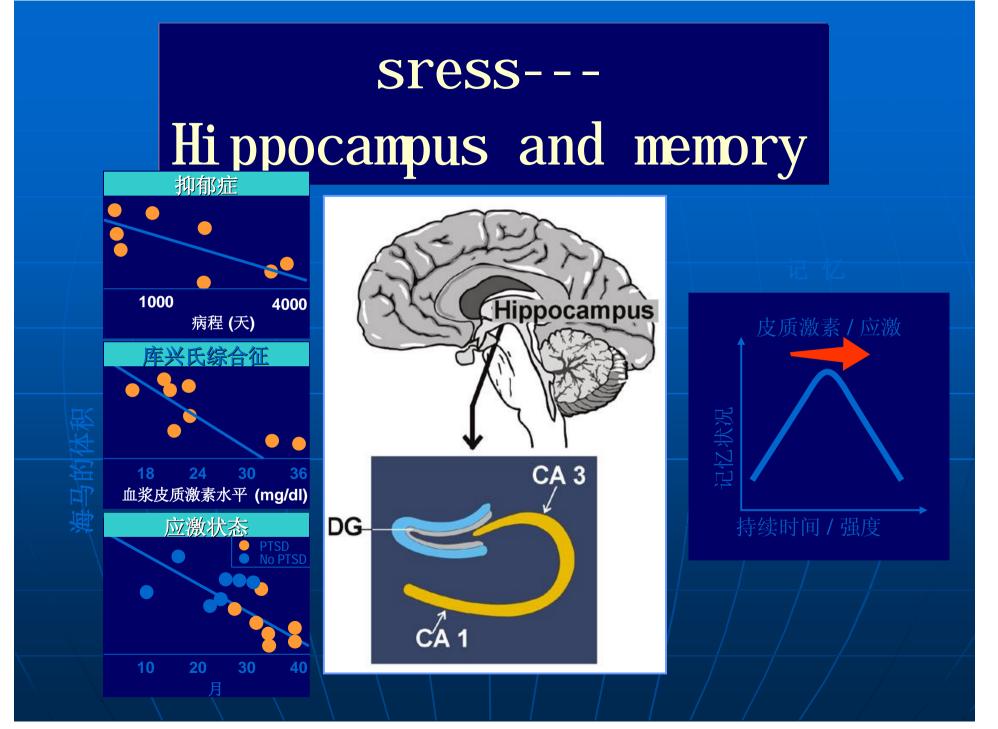
# psychosomatic disease

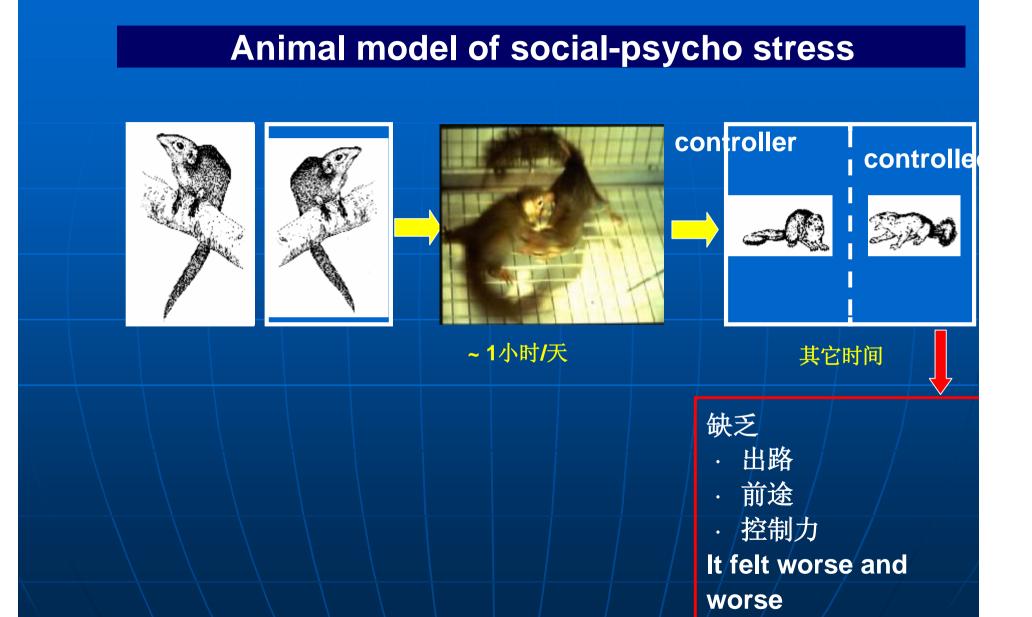
Teaching and Research office of Psychiatry, West China medical school S.U.

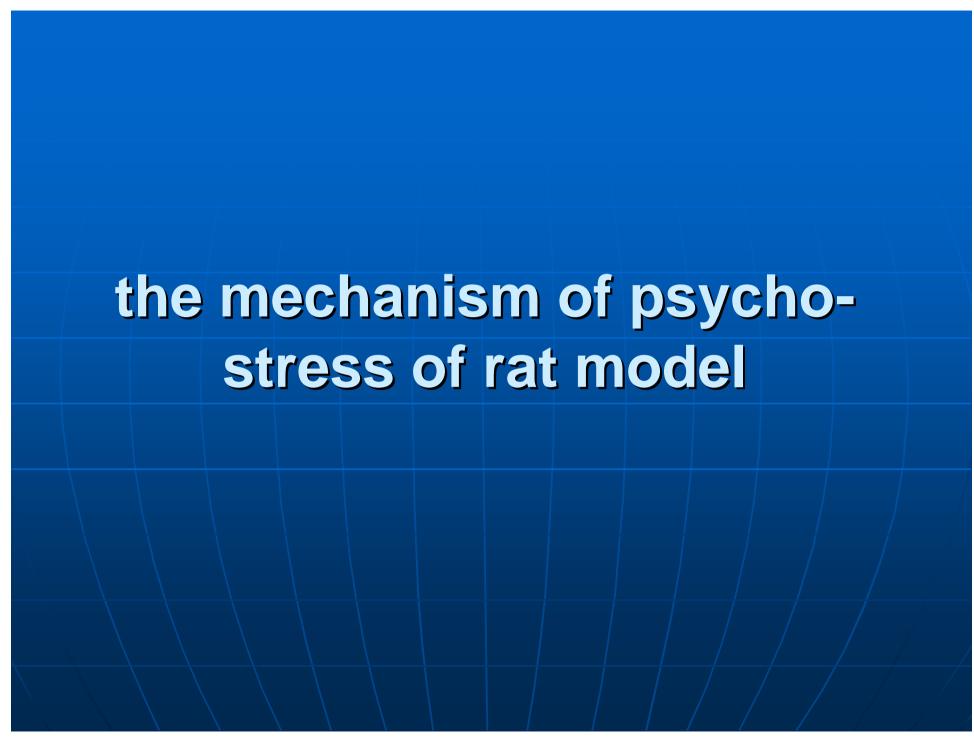
# contents

- n Stress and psychosomatic disease
- n psychosomatic disease(psychophysiological disorder)
- n Classification of psychosomaticdisease
- n Introduction of several psychosomatic disease





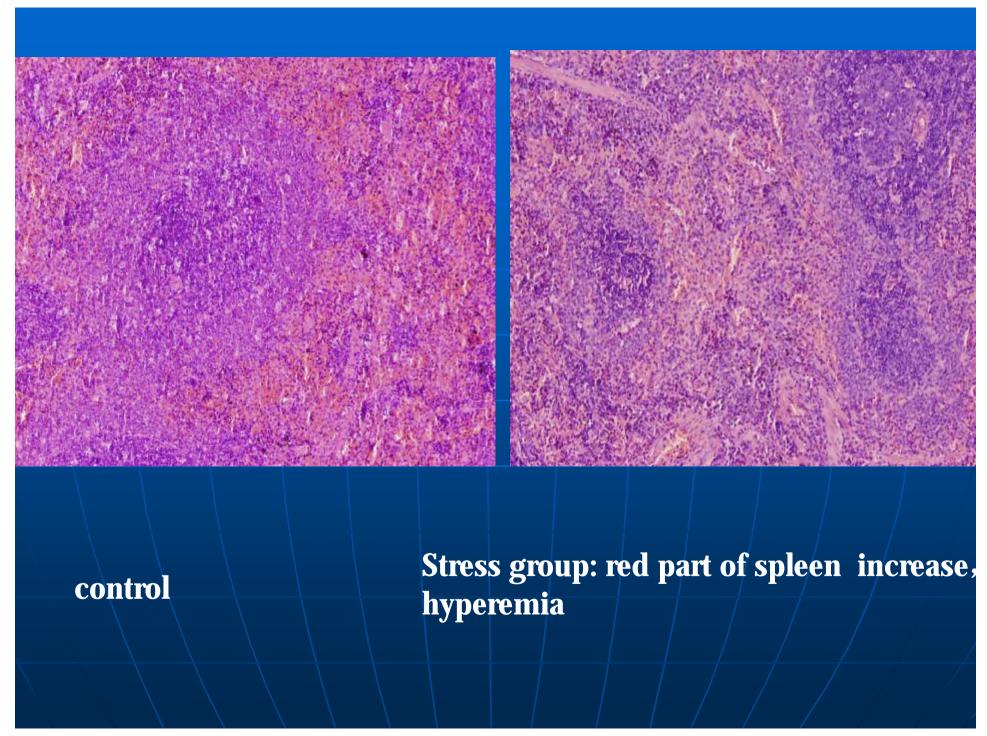


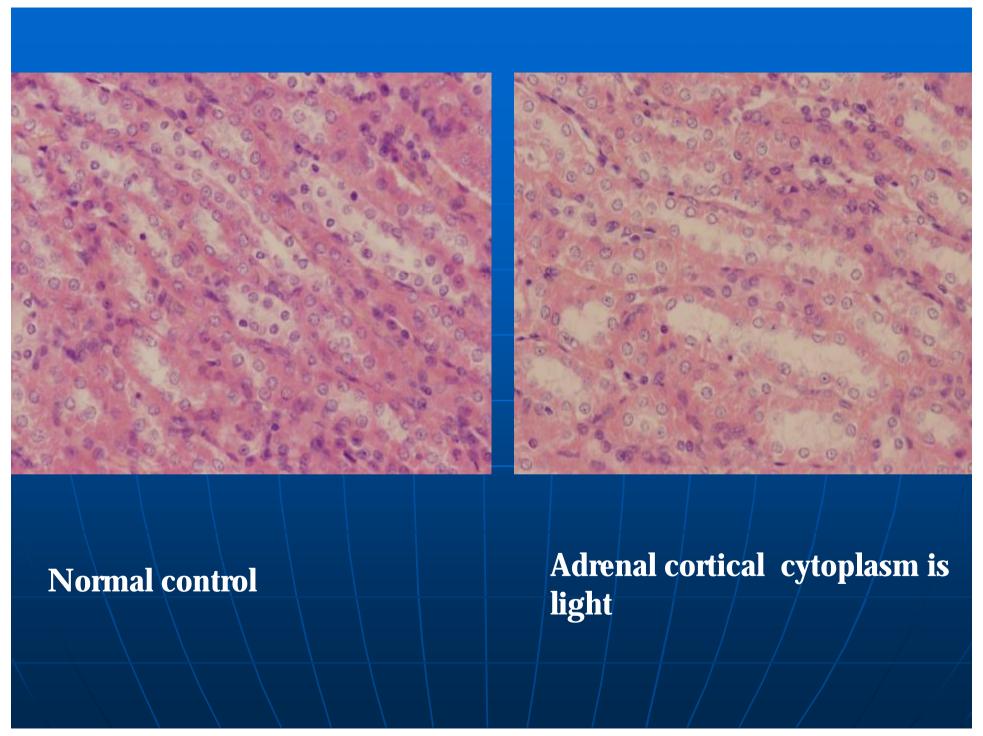












### What is psychosomatic disease

n Specify that psychological factors adversely affect patient's medical conditions in one of several ways.

### What is psychosomatic disease

n The factors influenced the course of general medical conditions by association between the psychological factors and the development or exacerbation or delayed recovery from the general condition

### What is psychosomatic disease

- n The factors interfere with the treatment of the general medical conditions
- n The factors constitute additional health risks for the individual

### Classification according system

- 1. Cardiovascular system
- n coronary artery disease
- n essential hypertension
- n Cardiac arrhythmias
- 2. Respiratory system
- n bronchial asthma
- n hyperventilation syndrome

### Classification according system

- 3. Gastrointestinal system
- n peptic ulcer
- n ulcerative colitis
- 4. Endocrine system
- n diabetes mellitus
- n hyperthyroidism

### Classification according system

- 5. Musculoskeletal system
- n rheumatoid arthritis
- n low back pain
- 6. Neurological system
- n migraine headache
- n tension headache

# Mechanism (etiology)

n Chronic, severe and perceived stress play some causative role in the development of these diseases

n Social readjustment rating scale Death of spouse, 100 life-change units Divorce, 73 units Marital separation, 65 units Death of a close family member, 63 units

Accumulation of 200or more life-change units in one year increases the incidence of psychosomatic diseases.

# Mechanism (etiology)

- n Face general stresses optimistically, rather than pessimistically, are not apt to experience psychosomatic diseases; if they do, they are apt to recover easily
- n The mediator between cognitively based stress and disease may be hormonal

# Mechanism (etiology)

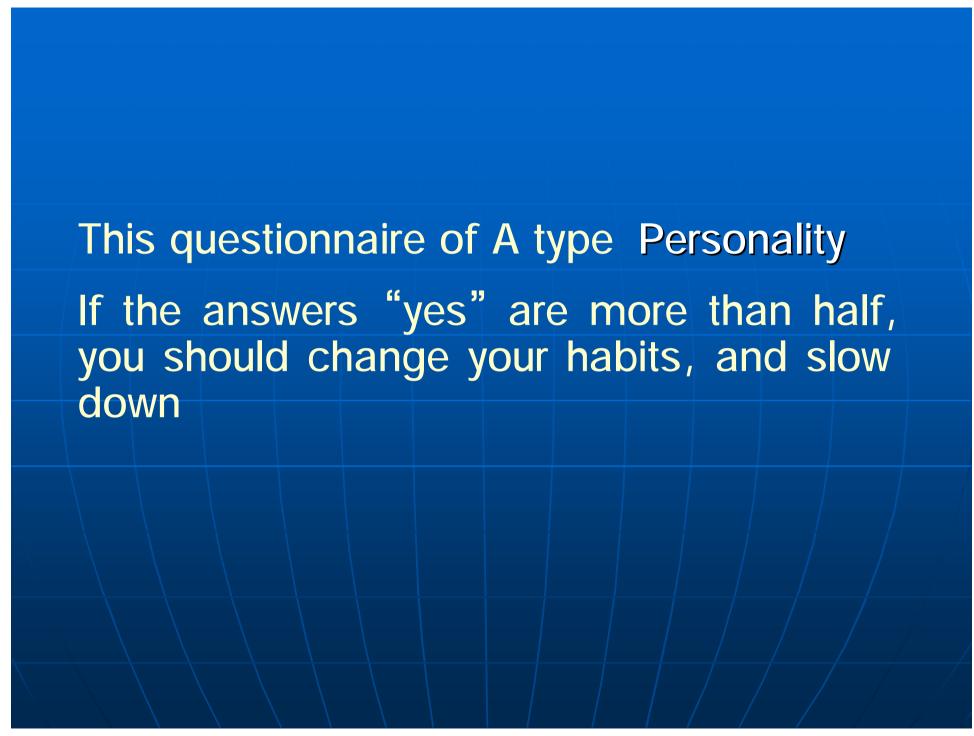
n The mediator may be changes in the functioning of the anterior pituitary-hypothalamic-adrenal axis, with autonomic effects, adrenal enlargement, and lymphoid shrinkage.

### Answer theses questions with yes or no

- 1. 你说话时会刻意加重关键字的语气吗?
- 2. 你吃饭和走路时都很急促吗?
- 3. 你认为孩子自幼就该养成与人竞争的习惯吗?
- 4. 当别人慢条斯理做事时你会感到不耐烦吗?
- 5. 当别人向你解说事情时你会催他赶快说完吗?
- 6. 在路上挤车或餐馆排队时你会感到激怒吗?
- 7. 聆听别人谈话时你会一直想你自己的问题吗?
- 8. 你会一边吃饭一边写笔记或做其他事吗?

- 9 你会在休假之前先赶完预定的一切工作吗?
- 10 与别人闲谈事你总是提到自己关心的事吗?
- 11 让你停下工作(或学习)休息一会时你会觉得浪费了时间了吗?
- 12 你是否会全心投入工作(或学习)而无暇欣赏周围的美景
- 13 你是否觉得宁可务实而不愿从事创新或改革的事?
- 14 你是否尝试在时间限制内做出更多的事?
- 15 与别人有约时你是否绝对遵守时间?
- 16 表达意见时你是否握紧拳头以加强语气?
- 17 你是否有信心再提升你的工作(学习)绩效?
- 18 你是否觉得有些事等着你立刻去完成?

- 19 你是否觉得与人竞争时非赢不可?
- 20 你是否对自己的工作(学习)效率一直不满意?
- 21 你是否经常打断别人的话?
- 22 看见别人迟到你是否会生气?
- 23 用餐时你是否一吃完就立刻离席?
- 24 你是否经常有匆匆忙忙的感觉?
- 25 你是否对自己近来的表现不满意?



- n Coronary artery disease Personality type (A type)
- n aggressive and compulsive personalities
- n with a tendency work long hours
- n and to seize authority

Type A personalities strongly associated with the development of Coronary artery disease

n Coronary artery disease

- To alleviate the psychic distress such as anxiety and depression associated with the disease ----diazepam, SSRIs
- n to treat pain with analgesics

### **Essential hypertension**

- n Characterized by a blood pressure of 160/90mm Hg or higher
- n 20% of the adult population in the United States is hypertensive

### Personality type (A type)

- n Congenial compliant compulsive
- n Their anger is not expressed openly, they have much inhibited rage, which they handle poorly

n Essential hypertension

- n Supportive psychotherapy
- n Behavioral techniques (biofeedback, meditation and relaxation therapy)
- n Comply with anti hypertensive medication regimen

### Cardiac arrhythmias

- n Palpitations, ventricular tachycardia, and ventricular fibrillation sometimes occur in conjunction with an emotional upset
- n Associated with emotional trauma are sinus tachycardia, ST-wave and T wave changes, ventricular ectopy, increased plasma catecholamines, and free fatty acid concentrations
- n Emotional stress is nonspecific, as is the personality description associated with the disorders

Cardiac arrhythmias

- n Psychotherapy
- n B-blocking drugs, such as propranolol(Inderal)

### Bronchial asthma

n The rate and depth of a healthy person's breathing can be changed voluntarily to correlate with various emotional states, such changes are aggravated and prolonged in people with asthma

#### **Bronchial asthma**

### Psychological factors

- n Characterized as excessive dependence needs
- n In many asthmatic patients a strong unconscious wish for protection and for envelopment by the mother or surrogate mother

#### **Bronchial asthma**

### Psychological factors

- The mother figures tend to be overprotective and oversolicitous, perfectionistic, dominating, and helpful
- When protection is sought but is not received, an asthma attack occurs

### Bronchial asthma

- Separated from their mothers (so-called parentectomy), asthma improved
- n Individual, group, behavioral (systematic desensitization), and hypnotic
- Treated jointly by internists, allergists, and psychiatrists
- n B-adrenergic receptor antagonists are contraindicated

### Peptic ulcer

Circumscribed ulceration of the mucous membrane of the stomach or the duodenum

The ulceration penetrates to the muscularis mucosae and occurs in areas exposed to gastric acid and pepsin

### Peptic ulcer- Etiology

#### Specific factor:

- Chronic frustration of intense dependence needs results in a characteristic unconscious conflict
- this conflict causes a chronic regressive unconscious hunger and anger, leading to acid hypersecretion
- · with above equation, ulcer formation may result

### Peptic ulcer- Etiology

#### Non-Specific factor:

 stress and anxiety caused by various nonspecific conflicts may produce gastric hyperacidity and hypersecretion of pepsin and may result in a ulcer

•Traumatic occurrences in animals (electric shock in dogs), may produce ulcers, support nonspecific approach

### Peptic ulcer

#### treatment:

- psychotherapy is directed toward patient's dependence conflicts
- ·Biofeedback and relaxation therapy may be useful
- •Medical treatment: cimetidine, ranitidine, sucralfate, famotidine antacid medication dietary control

#### **Ulcerative colitis**

### Personality type

- n predominance of compulsive personality traits
- n are neat, orderly, clean, punctual,
- n hyperintellectual, timid
- n inhibited in expressing their anger

#### Ulcerative colitis

- n Acute Ulcerative colitis: Nonconfrontational, supportive psychotherapy
- n Quiescent period: interpretative psychotherapy
- Medical treatment: anticholinergics and antidiarreal agents
- Severe case: prednisone therapy

Hyperthyroidism

Characterized by biomedical and psychological changes that occur as the result of a chronic endogenous or exogenous excess of thyroid hormone

### Hyperthyroidism

psychosomatic factors

- Stress is associated with the onset of hyperthyroidism
- Unusual attachment to and dependence on a parent (mother), and so could not tolerate any threat to their mother's approval
- Lacked adequate support because of economic stress, divorce, death or multiple siblings

### Hyperthyroidism

psychosomatic factors

- They strive toward premature selfsufficiency and tend to dominate others with smothering attention and affection
- n They build defenses against a repetition of the unbearable feelings of rejection and isolation that occurred in childhood

### Hyperthyroidism

- n Antithyroid medication
- n Tranquilizers
- n Supportive psychotherapy
- n Crisis intervention may be helpful at the onset of the disease

#### Diabetes mellitus

Disorder of metabolism and of the vascular system manifested by a disturbance of the body's handling of glucose, lipid, and protein

### Diabetes mellitus---etiology

- n Heredity and family history are important in the onset
- Sudden onset is associated with emotional stress, which disturbs the homeostatic balance
- n Provoking feelings of frustration, loneliness, and dejection

#### Diabetes mellitus

- n Supportive psychotherapy
- n Encourage patients to lead as normal a life as possible, with the recognition that they have a chronic but manageable disease