vasoconstriction)

#### 4.2. Infection

- · Infection must be cleared for healing to occur
- Bacteria competes for nutrients

#### 4.3. Thrombosis

- · Blood clot, dissolve, can't dissolve embolus
- Embouls stasis, increase clot and break off lodge in blood vessels

#### **TOPIC 9 NEUROLOGICAL DISORDERS**

#### A. Stroke

#### At the end of this topic, students should be able to:

- Discuss the extent to which stroke is an issue of concern for health in Australia, and its epidemiology, in particular with respect to ageing.
- Differentiate between ischaemic and haemorrhagic stroke in terms of aetiology, pathogenesis clinical manifestations and sequelae.
- Briefly describe the management of stroke with reference to the acronym FAST and fibrinolytic therapy.

#### To achieve this, the following content will be included:

#### 1. Risk factors of stroke.

- Hypertension increase BP damage plaque, aneurysm burst
- Diabetes mellitus increase BGL complex with protein, damage blood vessel wall
- Hyperlipidaemia accumulate in blood vessel walls
- Smoking vasoconstriction- damage to blood vessels walls
- Age- blood vessels weaken, become more rigid
- · Family history stoke, diabetes
- Alcohol increase LDL
- Heart disease accumulate platelets, clotting factors, clots can lodge in vessels of the brain, unhealthy arteries increase BP

#### 2. Metabolic requirements of the brain:

#### 2.1. Brain oxygen consumption

- Receives 20% of cardiac output (top priority for blood)
- Nerve cells will die without oxygen

## 2.2. Major vessels: middle cerebral artery, anterior cerebral artery, posterior cerebral artery, Circle of Willis

Cerebral arteries - major artery

- Middle, anterior and posterior
- · Frontal, temporal, parietal lobe blockage affects memory, personality etc

Circle of willis - connection between blood vessels

Back up routes for blood flow

#### Cerebral blood flow stable

· Autoregulation - blood vessels in brain can dilate and constrict as needed

# **Human Biology 2ab Study Guide**

**Lingsheng Yao** 

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