1. Basic anatomy of the cerebral and spinal cord circulation.

2. Stroke mechanisms: the pathophysiology of ischemia and hemorrhage
   a. Atherosclerosis
   b. Thrombosis: platelet physiology; coagulation
   c. Embolism
   d. Hemorrhage

3. Common clinical syndromes of stroke

4. Transient ischemic attacks.

5. The evaluation of stroke patients
   a. Imaging, laboratory evaluation.

6. Management of stroke patients
   a. Fluids, blood pressure, nutrition.
   b. Anticoagulation issues.
   c. Complication avoidance and treatment
   d. Surgical interventions.

7. Emergency treatment of acute stroke patients
   a. Thrombolytic therapy.

8. Medical therapies for stroke prevention.

9. Rehabilitation of stroke patients.