



Ischemic Stroke: Clinical and Therapeutic Implications

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- IS represents a catastrophic brain vascular disease...
- is the second most common cause of mortality and the third most common cause of disability worldwide



- In Europe the incidence ranges from 95 to 290/100,000 per year
- One-month case-fatality rates ranging from 13 to 35%
- Approximately 1.1 million inhabitants of Europe suffered a stroke each year
- Ischemic stroke accounted for approximately 80% of cases.

Béjot Y, Bailly H, Durier J, Giroud M. Epidemiology of stroke in Europe and trends for the 21st century. *Presse Med.* 2016 Dec;45(12 Pt 2):e391-e398.



- GH Izola: (150000 inhabitants)
 - 150 stroke patients per year



- Large vessel disease
- Small vessel disease
- Embolism: cardiac, large vessel, other

TOAST classification



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TOAST classification of subtypes of acute ischemic stroke

Large-artery atherosclerosis
Cardioembolism
Small-vessel occlusion
Stroke of other determined etiology
Stroke of undetermined etiology
Two or more causes identified
Negative evaluation
Incomplete evaluation



- Different clinical pictures due to closure of arteries
- Most common:
 - Hemiparesis
 - Aphasia
 - Sensory deficit
 - Ataxia



- Age, gender, race
- Cardiac disease: Atrial fibrillation, valvular disease...
- Hypertension
- Smoking
- Diabetes
- Cholesterol
- Illicit drugs



- **Acute treatment:**
 - IV thrombolysis
 - Mechanical revascularization

- **Secondary prevention:**
 - ASA
 - Anticoagulation (e.g. AF)
 - Antihypertensive drugs
 - Statin
 - Life style modifications



What to expect?

- Paralysis or problems controlling movement (motor control)
- Sensory disturbances including pain
- Problems using or understanding language (aphasia).
- Problems with thinking and memory
- Emotional disturbances



- Physical
 - Cognitive
 - Work therapy
 - Speech Therapy
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- Individualized to patients need
 - Ongoing lifelong process



Grazie per l'attenzione!
Hvala za pozornost!