Ischemic Stroke: Clinical and Therapeutic Implications

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Bibione, 26 oktober 2018
Ischemic stroke - IS

- 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.

● GH Izola: (150000 inhabitants)

○ 150 stroke patients per year
Etiology of IS

- Large vessel disease
- Small vessel disease
- Embolism: cardiac, large vessel, other
TOAST classification of subtypes of acute ischemic stroke

<table>
<thead>
<tr>
<th>Large-artery atherosclerosis</th>
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</thead>
<tbody>
<tr>
<td>Cardioembolism</td>
</tr>
<tr>
<td>Small-vessel occlusion</td>
</tr>
<tr>
<td>Stroke of other determined etiology</td>
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<tr>
<td>Stroke of undetermined etiology</td>
</tr>
<tr>
<td>Two or more causes identified</td>
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<tr>
<td>Negative evaluation</td>
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<tr>
<td>Incomplete evaluation</td>
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</tbody>
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Graphic 62571 Version 1.0
Clinical picture

- Different clinical pictures due to closure of arteries

- Most common:
  - Hemiparesis
  - Aphasia
  - Sensory deficit
  - Ataxia
Risk factors

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

● Acute treatment:
  ○ IV thrombolysis
  ○ Mechanical revascularization

● Secondary prevention:
  ○ ASA
  ○ Anticoagulation (e.g. AF)
  ○ Antihypertensive drugs
  ○ Statin
  ○ Life style modifications
Rehabilitation

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
Rehabilitation

- Physical
- Cognitive
- Work therapy
- Speech Therapy

- Individualized to patients need
- Ongoing lifelong process
Grazie per l’attenzione!
Hvala za pozornost!

Website:  http://ita-slo.eu/it/memori-net
          http://memorinet.eu