Effects of the water-utilization agents Gorei-san and Sairei-tou on chronic subdural hematoma in elderly patients

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【Purpose】

Acute and chronic subdural hematoma for the elderly
We will examine the effectiveness of water-utilization agent (Gori-san and Sairei-tou) for elderly of acute and chronic subdural hematoma.

【Methods】

over 70 year-old 57 cases
  • Acute subdural hematoma 10 cases
  • Chronic subdural hematoma 47 cases
    a symptom 20 cases
    symptom 27 cases
【Treatment】
Gorei-san administration (G group)  47 cases
Sairei-tou administration (S group)  10 cases

【Consideration】
✔ Presence or absence of recurrence after surgery
✔ Presence or absence of transition from acute subdural hematoma to chronic subdural hematoma
✔ Average hospital stay of surgery cases
✔ ADL after 3 months later after surgery

Mean age :  G group 82.9 y.o.
            S group 85.7 y.o.
92 M
Acute subdural Hematoma
Gorei-san follow up

2014-11

2014-12

2015-1

2015-2

2015-3
Chronic subdural Hematoma

Gorei-san follow up
97 F

Chronic subdural Hematoma

Sairei-tou follow up
78 M

Burr hole
Irrigation

Gorei-san follow up

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A month later | Two months later | Three months later
### 【Results】

<table>
<thead>
<tr>
<th></th>
<th>Acute subdural hematoma</th>
<th>Chronic subdural hematoma (A symptom)</th>
<th>Chronic subdural hematoma (burr hole surgery)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G group (47 cases)</strong></td>
<td>8</td>
<td>15</td>
<td>24</td>
</tr>
<tr>
<td><strong>S group (10 cases)</strong></td>
<td>2</td>
<td>5</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Progressive case</th>
<th>Spontaneous resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G group (23 cases)</strong></td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td><strong>S group (7 cases)</strong></td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Surgical cases</strong></th>
<th>Recurrence</th>
<th>Average hospital stay (day)</th>
<th>ADL (3 months later)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G group (24 cases)</strong></td>
<td>5</td>
<td>35.1</td>
<td>Home 4 cases, Facility 1 case</td>
</tr>
<tr>
<td><strong>S group (3 cases)</strong></td>
<td>0</td>
<td>29.4</td>
<td>Home 3 cases</td>
</tr>
</tbody>
</table>
Effect of Water—utilization agent for chronic subdural hematoma

Hematoma reduction ratio

Recurrence rate

*Surgery (39 cases)*

*Surgery + Gorei-san (89 cases)*

(Kouichiro Okamaoto, Oriental medicine, 2013)
1. Water-utilization agent (Gorei-san / Sairei-tou) has an effect of suppressing the transition of acute subdural hematoma to chronic subdural hematoma.

2. Water-utilization agent (Gorei-san / Sairei-tou) has the effect of preventing asymptomatic chronic subdural hematoma from becoming symptomatic.

3. The Sairei-tou is higher effectiveness of prevention of recurrence after surgery for chronic subdural hematoma.