Spontaneous tumor shrinkage in 1261 observed patients with sporadic vestibular schwannoma

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Material & Method

- Diagnosed during the period 1976 to 2012
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• Allocated to “wait & scan”
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• 1261 fulfilled these criteria.
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  (Last MRI size at least 3 mm smaller than largest observed size)
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  (Last MRI size at least 3 mm smaller than largest observed size)
• Mean age: 56.7 years, mean follow-up 9.5 years
05-04-2006

Sekv.: AX 3D FSE T2
Smit: 0.7 mm
Pos.: -11.4061
TR: 6000
TE: 111.744
AC: 1

HFS
FoV: 240 mm
Billednr.: 23
Billede 23 af 32
05-04-2006, 10:39:31
Different tumor shrinkage patterns

<table>
<thead>
<tr>
<th>Pattern</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth before shrinkage</td>
<td>14</td>
<td>29.2</td>
</tr>
<tr>
<td>Stability before shrinkage</td>
<td>26</td>
<td>54.1</td>
</tr>
<tr>
<td>Immediate shrinkage</td>
<td>8</td>
<td>16.7</td>
</tr>
</tbody>
</table>
# Tumour shrinkage related to sex, age and size of the tumour at diagnosis

<table>
<thead>
<tr>
<th></th>
<th>N.</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>Male / Female</td>
<td>23  / 24</td>
<td>4,1 / 4,0</td>
</tr>
<tr>
<td>&lt;=60 / &gt;60 years</td>
<td>27  / 20</td>
<td>4,3 / 3,5</td>
</tr>
<tr>
<td>&lt;=10 / &gt;10 mm</td>
<td>20  / 27</td>
<td>2,2 / 8,6</td>
</tr>
</tbody>
</table>
Conclusion

• 4% of Vestibular Schwannomas shrink

• No relation to sex or age

• Larger tumours shrink more often than small tumours