Clinical Significance of Horizontal and Vertical Margin of En bloc TURBT specimen

1) Department of Urology, The Jikei University Kashiwa Hospital
2) Department of Urology, The Jikei University School of Medicine

Takafumi Yanagisawa\(^1\), Jun Miki\(^1\), Keigo Sakanaka\(^1\), Hirotaka Suzuki\(^1\), Takayuki Sano\(^1\), Takashi Otsuka\(^1\), Keiichiro Miyajima\(^1\), Masatoshi Tanaka\(^1\), Taishi Matsuura\(^1\), Seiro Tanaka\(^2\), Koki Obayashi\(^1\) and Shin Egawa\(^2\)
Material and Methods

- 139 patients who underwent En bloc TURBT for bladder cancer (BC) and diagnosed horizontal and vertical margin (133 cases of NMIBC)
- Compared the patients’ demographics and RFS of horizontal margin positive vs. negative
- Analyzed the relation between vertical margin positive and progression

Results 1-Horizontal margin-

- Mean tumor diameter was 16.3±10.2mm
- The diagnostic rate of horizontal margin: 41.7%, vertical margin: 100%
- Among 133 NMIBCs, 3-year RFS: 66.0%, 3-year PFS: 94.0% (Median follow-up: 22 mo.)
- In comparison of horizontal margin negative (n=38) and positive (n=20), the rate of pedunculated and pTa tumors was significantly high in horizontal margin negative group

<table>
<thead>
<tr>
<th>Horizontal margin</th>
<th>3-year RFS</th>
<th>Rec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive (+)</td>
<td>89.4% (95% CI: 63.8-97.3)</td>
<td>2 (no rec on scar)</td>
</tr>
<tr>
<td>Negative (-)</td>
<td>73.5% (95% CI: 54.4-85.5)</td>
<td>9</td>
</tr>
</tbody>
</table>

![Graph showing recurrence-free survival](image)
Results②-Vertical margin-

- Of 10 cases of vertical margin positive, pT2: 5 cases, pT1: 5 cases
- Among pT1 40 cases, 24 cases underwent 2nd TUR and there was only 1 case of pT1 residue in TUR scar, that was vertical margin positive

Conclusion

- En bloc TUR specimen can lead to diagnose the horizontal and vertical margin
- Horizontal margin positive is not associated with recurrence
- We should perform 2nd TUR in patients with vertical margin positive pT1 BC
Thank you for your listening!!

Stay safe!!

Twitter ID: @gehi87

E-mail: t.yanagisawa.jikei@gmail.com

http://www.jikei-urow.com/