The efficacy of hybrid living donor hepatectomy

lessons learned from consecutive 110 cases in a single center

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A hybrid method of laparoscopic-assisted open liver resection through a short upper midline laparotomy can be applied for all types of hepatectomies.

Soyama et al. Surg Endosc. 2014
Technical refinements

- Omni-Tract surgical retractor
- Liver hanging maneuver in any type of the grafts
- Vascular stapler to close HV


Hybrid donor hepatectomy in Nagasaki Univ.

110/249 (44%)

ELL 63

Open (n=139) Hybrid (n=110)

Hybrid procedure can be applied for any types of the grafts.
## Outcomes of the donor

<table>
<thead>
<tr>
<th></th>
<th>Open N=126</th>
<th>Hybrid N=110</th>
<th>P</th>
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</thead>
<tbody>
<tr>
<td><strong>Operative time (minutes)</strong></td>
<td>420 (249-802)</td>
<td>405 (286-671)</td>
<td>NS</td>
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<tr>
<td><strong>Blood loss (g, including the bleeding from the graft liver)</strong></td>
<td>694 (70-3150)</td>
<td>537 (50-3350)</td>
<td>&lt;0.001</td>
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<tr>
<td><strong>Postoperative complications (Clavien-Dindo ≥III)</strong></td>
<td>15 (11.9%)</td>
<td>9 (8.3%)</td>
<td>NS</td>
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<tr>
<td><strong>Postoperative hospital stay (days)</strong></td>
<td>18.8±11.7</td>
<td>13.8±5.3</td>
<td>&lt;0.001</td>
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</tbody>
</table>

Data are represented as median (range) or mean±SD. LLS and RPS grafts are excluded.
Patient Survival of the Recipient

Hybrid (n=110)

Open (n=126)

N.S.
Neo Hybrid hepatectomy

HALS

Pure Lap

Operator

1st assistant

Scopist

1st assistant

2nd assistant

Operator

Scopist
Neo Hybrid hepatectomy
Conclusions

- Our procedure of hybrid hepatectomy is considered to be applicable for all types of living donor hepatectomies.

- Our procedure is considered to be reasonable picking the best of both laparoscopic and open approach.