PRELIMINARY EXPERIENCE AND TECHNICAL EVOLUTION ON PURE LAPAROSCOPIC HEPATECTOMY FOR ADULT LDLT


HPB and Liver Transplant
Clinica Universidad de Navarra. - Pamplona (Spain)
Preliminary experience and technical evolution on pure laparoscopic hepatectomy for adult LDLT

- In 2013 we began to offer our liver donors the laparoscopic approach with the aim of providing them with the benefits of the minimally invasive surgery.
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- This presentation is focused on the surgical outcome, morbidity and technical evolution along this preliminary experience.
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From May 2013
-7 consecutive donors: 6 RH and one LH, (all of them without the MHV).

Median age was 38 years (range 21-57); 5 were males and 2 females. BMI 27 (21-29) kg/m$^2$. 
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From May 2013 - 7 consecutive donors: 6 RH and one LH, (all of them without the MHV).

Median age was 38 years (range 21-57); 5 were males and 2 females. BMI 27 (21-29) kg/m$^2$.

Preoperative study:
CT angioscan, cholangioMRI and Mevis 3D reconstruction.

Estimated graft volume was 791 (1462-376) ml.
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Anatomy: All donors had single vascular and biliary elements

3 RH cases: two right ducts
1 RH case: large IHV
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Totally Laparoscopic Right-Lobe Hepatectomy for Adult Living Donor Liver Transplantation: Useful Strategies to Enhance Safety

F. Rotellar¹,* F. Pardo¹, A. Benito², P. Martí-Cruchaga¹, G. Zozaya¹, L. Lopez³, F. Hidalgo³, B. Sangro⁴,⁵ and I. Herrero⁴,⁵

Technical evolution

- Right liver mobilization

- Trocar position/45º optic

- ICG fluorescence / bile duct division under direct view
Liver mobilization and liver hanging for totally laparoscopic right hepatectomy: an easy way to do it

Fernando Rotellar\textsuperscript{1,2} · Fernando Pardo\textsuperscript{1,2} · Pablo Martí-Cruchaga\textsuperscript{1,2} · Gabriel Zozaya\textsuperscript{1,2} · Victor Valentí\textsuperscript{1,2} · Manuel Bellver\textsuperscript{1,2} · Luis Lopez-Olaondo\textsuperscript{1,3} · Francisco Hidalgo\textsuperscript{1,3}
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A: flat position

B: left tilt

C: left tilt + balloon inflation
NEAR MISS AND PITFALLS
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<th></th>
<th>Age/gender</th>
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<th>Conversion</th>
<th>Pringle (min)</th>
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**Preliminary experience and technical evolution on pure laparoscopic hepatectomy for adult LDLT**

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<th>Weight g.</th>
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<th>Bb (max)</th>
<th>ALT (max)</th>
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- This experience suggests that laparoscopic approach for LDLT hepatectomy is feasible and safe

- Providing donors with the known benefits of the minimally invasive surgery

- Discussed technical aspects are simple modifications that facilitate and add safety to the procedure
Thank you