Combined In Situ Hypothermic Liver Preservation And

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In situ hypothermic perfusion of the liver versus standard ...
In Situ Hypothermic Perfusion. In situ hypothermic perfusion is the least technically demanding of the three techniques. In situ perfusion has been recommended (Hannoun et al, 1996) for liver resections that require total vascular isolation for periods exceeding 1 hour.More recently Azoulay and colleagues (2005) demonstrated that hypothermic perfusion of the liver is associated with better ...

Combined In Situ Hypothermic Liver
To reduce this risk and allow complex liver resections, three techniques of hypothermic liver preservation (HLP) have been described: in situ, ante situm and ex situ HLP. The aim of this article is to report on our experience of “en bloc” resection of a large HB of the right liver with ITE in a 3-year-old child combining in situ HLP and cardioplegia under normothermic extracorporeal ...

In Situ Hypothermic Perfusion of the Liver Versus Standard ...
Julian Thalhammer, Martina Fanna, Régis Gaudin, Claire Martinon-Siringo, Laureline Berteloot, Louise Galmiche-Rolland, Isabelle Aerts, Daniel Orbach, Carmen Capito, Christophe Chardot, Combined in situ hypothermic liver preservation and cardioplegia for resection of hepatoblastoma with intra-atrial extension in a 3 year old child, Journal of Pediatric Surgery Case Reports, 10.1016/j.epsc.2016 ...

Transplantation of High-risk Donor Livers After Ex Situ ...
using a combined protocol of oxygenated hypothermic, rewarming and normothermic machine perfusion: study ... reconditioning and subsequent evaluation of liver grafts. Single or dual hypothermic oxygenated machine perfusion (DHOPE) ... situ viability assessment to facilitate the selection of ECD livers

Combined In Situ Hypothermic Liver Preservation And
combined with in situ hypothermic liver preservation of the remaining left liver. Complete tumor resection was achieved without tumor rupture. Postoperative liver function was immediately good and adjuvant chemotherapy was resumed per protocol. Eleven months after the end of treatment the child is in complete tumor remission.

Combined in situ hypothermic liver preservation and ...
combined with in situ hypothermic liver preservation of the remaining left liver. Complete tumor. resection was achieved without tumor rupture. Postoperative liver function was immediately good and.

Technique and preliminary results of extracorporeal liver ...
Hypothermic oxygenated perfusion (HOPE) and normothermic perfusion are seen as distinct techniques of ex situ machine perfusion of the liver. We aimed to demonstrate the feasibility of combining both techniques and whether it would improve functional parameters of donor livers into transplant standards.

Hypothermic oxygenated perfusion protects from ...
Introduction Extended criteria donor (ECD) livers are increasingly accepted for transplantation in an attempt to reduce the gap between the number of patients on the waiting list and the available number of donor livers. ECD livers; however, carry an increased risk of developing primary non-function (PNF), early allograft dysfunction (EAD) or post-transplant cholangiopathy.

Liver resection using total vascular exclusion of the ...
Liver resection under total vascular exclusion (TVE) with in situ hypothermic perfusion of the liver, compared with standard TVE, was followed by significantly better tolerance to ischemia, better liver and renal function, and lower morbidity. These results were obtained despite significantly longer ischemia time and much more complex procedures.

ASO Author Reflections: Revival of the In-Situ Hypothermic ...
Summary background data: We compare the results of liver resection performed under in situ hypothermic perfusion versus standard total vascular exclusion (TVE) of the liver <60 minutes and > or =60 minutes in terms of liver tolerance, liver and renal functions, postoperative morbidity, and mortality. The safe duration of TVE is still debated. Promising results have been reported following TVE ...

Combined Liver Resection and Reconstruction of the Supra ...
Standard total vascular exclusion (TVE) of the liver is indicated for resection of tumors involving or adjacent to the vena cava and/or the confluence of the hepatic veins. The duration of liver ischemia can be prolonged by combined portal hypothermic perfusion of the liver (in or ex situ).

Ex Situ Machine Perfusion of Human Donor Livers via the ...
ASO Author Reflections: Revival of the In-Situ Hypothermic Perfusion? The Role of Complex Liver Surgery in the Modern Era. Mohammad H. Fard-Aghaie MD 1 &

(PDF) Combined in situ hypothermic liver preservation and ...
In Situ Hypothermic Perfusion of the Liver. In situ hypothermic perfusion of the liver was applied when the planned procedure included vascular reconstruction in addition to vena cava surgery, ie, hepatic vein and/or portal vein surgery, potentially prolonging beyond 1 hour the total vascular exclusion (TVE) indicated for the resection per se ...

Ante situm hepatic vein and caval reconstruction - TVASurg ...
The in situ hypothermic liver preservation technique may allow a more aggressive approach to tumours of the caval confluence and/or all three hepatic veins, which would otherwise be deemed irresectable.All...

Combined Hypothermic and Normothermic Machine Perfusion ...
Hypothermic and normothermic oxygenated machine perfusion (NMP) were performed using the umbilical vein for portal inflow. Three livers were perfused with hypothermic machine perfusion, 1 full liver graft underwent NMP for 4 hours, and 1 left lateral split procedure was performed under continuous NMP with portal perfusion via the umbilical vein.

In situ hypothermic liver preservation during radical ...
In situ hypothermic liver preservation was well tolerated as evidenced by preserved hepatic synthetic function early after operation. One patient died 66 days after surgery. There were two recurrences after a median follow-up of 14 (range 2–33) months; local recurrence was identified in one patient after 4 months and distant metastasis in another after 8 months.

Combined in situ hypothermic liver preservation and ...
combined with in situ hypothermic liver preservation of the remaining left liver. Complete tumor resection was achieved without tumor rupture. Postoperative liver function was immediately good and adjuvant chemotherapy was resumed per protocol. Eleven

In situ hypothermic liver preservation during radical ...
To further confirm our findings, we analyzed liver function, liver tissue ATP and histology after transplantation of unperfused and perfused DCD rat livers (30 min warm in situ ischemia + 4 h cold storage), e.g. after cold storage alone, after endischemic normothermic oxygenated perfusion with diluted blood for 1 h, and after endischemic hypothermic oxygenated perfusion with Belzer MPS for 1 h.

Open access Protocol Transplantation of high-risk donor ...
A hepatic ante situm technique (full mobilization of the liver with transection of the suprahepatic and infrahepatic vena cava, followed by rotation of the liver so that the vena cava and hepatic veins are anterior and accessible) combined with hypothermic in situ perfusion of the liver was chosen as the most optimal surgical approach.

Ex vivo and in situ hypothermic hepatic resection ...
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