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Despite restoration of oxygen supply, a lower temperature during hypothermic machine perfusion (HMP) or subnormothermic machine perfusion (SNMP) of the liver seems to be associated with slower metabolic rates, thus there is a reduction in conversion of succinate to **fumarate** and reduction in overall electron flow through Complex I to **inter-membrane mitochondrial space**.

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Author: Maria Irene Bellini, Janice Yiu, Mikhail N...

Publish Year: 2019

## Pulsatile perfusion of kidney allografts.

<https://www.ncbi.nlm.nih.gov/pubmed/19610170>

Author information: (1)**Abdominal Organ Transplantation Division**, Keck School of Medicine, **University of Southern California, Los Angeles**, California 91101, USA.

Imatsuoka@surgery.usc.edu PURPOSE OF REVIEW: The purpose of this article is to describe the **current use** of **pulsatile kidney perfusion** during **organ preservation** and the effects on **kidney allograft** ...

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Publish Year: 2009

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Mar 12, 2019 · Background. The major concern in liver **transplantation** of grafts from donation after circulatory death (DCD) donors remains the high incidence of non-anastomotic biliary strictures

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**Name of Journal:** *World Journal of Transplantation*

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Rijkse E *et al.* Machine perfusion in abdominal organ transplantation

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The second method of hypothermic preservation in current use is **hypothermic machine perfusion (HMP)**. HMP was first developed and used in the early 1970's by centres in the

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<https://www.ncbi.nlm.nih.gov/pubmed/19610170>

Author information: (1)Abdominal Organ Transplantation Division, Keck School of Medicine, University of Southern California, Los Angeles, California 91101, USA. Imatsuoka@surgery.usc.edu  
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Author: Lea Matsuoka, Jose L Almeda, Rod Mateo

Publish Year: 2009

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Extracorporeal perfusion as used to recover DCD organs for transplantation How controlled CPB/ELS can replenish energy stores systemically. CPB/ELS could be ideal way to infuse **magnetic nano particles** may facilitate inductive warming of the cryonics patient post storage Truly robust **cryopreservation** is likely to be complex & expensive

## Kidney Preservation: Review of Present and Future Perspective

<https://www.sciencedirect.com/science/article/pii/S0041134513007641>

Static cold storage (CS) and hypothermic machine perfusion (HMP) are the most commonly used techniques for **kidney preservation**. This essay reviews the current use of preservation techniques,