

Name of Journal: *World Journal of Transplantation*

ESPS Manuscript NO: 21537

Manuscript Type: Minireviews

Potential approaches ²⁵ to improve the outcomes of donation after cardiac death liver grafts

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Abstract

There is a growing discrepancy between the supply and demand of livers for transplantation resulting in high mortality rates on the waiting list. One of the options to decrease the mortality on the waiting list is to optimize organs with inferior quality that otherwise would be discarded. Livers from Donation after cardiac Death (DCD) donors are frequently discarded because they are exposed to additional warm ischemia time, and this might lead to primary-non-function, delayed graft function, or severe biliary complications. In order to maximize the usage of DCD livers several new preservation approaches have been proposed. Here, we will review 3 innovative organ preservation methods; a) different ex vivo perfusion techniques, b) persufflation with oxygen and c) addition of thrombolytic therapy. Improvement of the quality of DCD liver grafts could increase the pool of liver grafts for transplantation, improve the outcomes, and decrease the mortality on the waiting list.

Key words: Donation after cardiac death; Biliary complications; Organ preservation methods

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Firstly, there have been increased efforts to identify all potential brain dead donors with poorer graft survival outcomes (donor warm ischaemia time >20–30 min, ... Initial major concerns emerging from the early series using DCD liver grafts For controlled DCD donors as for the Michigan approach, the aim is to improve ...

Challenges in machine perfusion preservation for liver grafts ...

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2013年11月27日 - To prevent ischemia-reperfusion injury in DCD liver grafts, a hypothermic ... We present evidence supporting the need for improving liver perfusion ... circulatory death (DCD) is increasing in importance as a potential source of ... The two current approaches to preservation prior to transplantation are simple ...

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To compare the outcomes of DCD and DBD transplants, time to graft failure was evaluated using Cox regression models. that many incremental liver donors will be forthcoming from this approach. More recently, as the number of potential liver transplant candidates Might we expect DCD results to improve over time?

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作者: D Monbaliu - 2012 - 被引用次数: 71 - 相关文章

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Donation After Cardiac Death as a Strategy to Increase ...

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Procedures using such donor **livers** are termed **donation after cardiac death (DCD) liver** transplants, and they offer the **potential** to **increase** the number of ... To compare the **outcomes** of DCD and DBD transplants, time to **graft** failure was is unlikely that many incremental **liver** donors will be forthcoming from this **approach**.

Donation After Cardiac Death in Abdominal Organ ...

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作者: DJ Reich - 2012 - 被引用次数: 6 - 相关文章

ther identified and clinical **outcomes** will **improve** as a result of protocol ... stances, the **potential** controlled DCD does not meet ... toward developing safer **approaches** for DCD liver transplant. **Donation after cardiac death liver graft** survival.

Non-heart-beating donation - Wikipedia, the free encyclopedia

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作者: D Monbaliu - 2012 - 被引用次数: 74 - 相关文章

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Overview of outcome after Donation after Cardiac Death (DCD) liver ... In addition, conversion of potential liver donors to actual liver transplants is low.

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Procedures using such donor livers are termed donation after cardiac death (DCD) liver transplants, and they offer the potential to increase the number of ... To compare the outcomes of DCD and DBD transplants, time to graft failure was ... is unlikely that many incremental liver donors will be forthcoming from this approach.

Comparing outcomes of donation after cardiac death versus ...

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Liver transplantation (LT) using organs donated after cardiac death (DCD) is increasing