

# Hypothermic machine perfusion

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The transplant organ is placed in a sterile chamber and cold preservation fluid is continually recirculated through the vasculature at low temperature and pressure (30 mmHg) ( Figure 88.4 ). The perfusion fluid is based on UW solution and some systems include oxygenation. This technique flushes the microcirculation more effectively . There are trial and meta-analysis data showing that hypothermic machine perfusion reduces the rate of delayed graft function (DGF) in renal transplantation, but the effect size is small.

© © Figure 88.4 The LifePort hypothermic perfusion machine (LifePort Kidney Transporter courtesy of Organ Recovery Systems).

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