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## Studies on bile duct Injury and the protective role of oxygenated machine perfusion in liver transplantation

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STATEMENTS ACCOMPANYING THIS THESIS

**Studies on Bile Duct Injury and the Protective Role of Oxygenated Machine Perfusion in Liver Transplantation**

*Negin Karimian, 4<sup>th</sup> December 2017*

- 1 The development of non-anastomotic strictures (NAS) after liver transplantation is associated with the bile duct's regenerative capacity, not the amount of bile duct epithelial injury at the time of transplantation. - *this thesis* -
- 2 The amount of histological injury of the distal common bile duct of donor livers at the time of transplantation represents the amount of injury throughout the whole biliary tree. - *this thesis* -
- 3 Insufficient recruitment of immune-modulating and enhanced recruitment of immune-stimulating T cells to the liver due to CCR5 functional deficiency is associated with the severity of hepatobiliary injury after biliary obstruction. - *this thesis* -
- 4 Preservation of donor livers using normothermic oxygenated machine perfusion instead of static cold storage prevents loss and dysfunction of biliary epithelium. - *this thesis* -
- 5 Normothermic machine perfusion can be used to assess the viability and function of human donor livers which helps to push the boundaries in organ selection for transplantation. - *this thesis* -
- 6 End-ischemic dual hypothermic oxygenated machine perfusion of livers donated after circulatory death (DCD) results in restoration of the hepatic energy levels, thereby improving liver and recipient recovery after transplantation. - *this thesis* -
- 7 We don't receive wisdom; we must discover it for ourselves after a journey that no one can take for us or spare us. - *Marcel Proust* -
- 8 You're only as lucky as your place of birth; the rest is the consequences of decisions you make.
- 9 The reason we cannot determine which of our decisions are good and which bad is that in a given situation we can make only one decision; We are not granted a second, third, or fourth life in which to compare various decisions. - *Milan Kundera* -
- 10 It's so fascinating to be a woman. It's an adventure that takes such courage, a challenge that's never boring. - *Oriana Fallaci* -
- 11 This may be the end of this story but it's certainly not the end of my story. - *a Persian song by Dang Show* -