

Prospective development of extracorporeal life support: from protoscience to science

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Propositions appertaining to the thesis entitled:

Prospective development of extracorporeal life support from protoscience to science

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Maastricht, December 11, 2013

- 1) Large hemodynamic fluctuations during cardiopulmonary bypass increase the risk for development of postoperative neurologic complications. (*Chapter 2*)
- 2) Facts from the past can persist in modernity as illusions. (*Chapter 3*)
- 3) 'To pulse or not to pulse?' is lacking a proper definition, similar as the classic 'To be or not to be?' (*Chapter 4*)
- 4) Neglecting physical laws are the cause of today's illusions in extracorporeal technology. (*Chapter 5*)
- 5) Extracorporeal life support is not just using a heart-lung machine, but creating a heart-lung machine-patient system. (*Chapter 7*)
- 6) Decision making in extracorporeal technology is like in stock exchange, always a matter of careful balancing between risks and profits.
- 7) Formalization of knowledge in extracorporeal technology from protoscience to science is unavoidable but formal soullessness must be avoided.
- 8) Extracorporeal circulation is a one shot deal without any chance for replay.
- 9) "Not only life might thus be kept up both in the head and in any other portion separated from the body of an animal, but it might also be re-produced after its entire extinction. It might be restored likewise to the whole body, and thereby a complete resurrection be performed in the full extent of the word." JJC Le Gallois, *Experiences in the Principle of Life*, 1813.
- 10) Guidelines and protocols can never replace medical arts and innovations.
- 11) Lumbal hernia is a prophylaxis for 'sitting life' diseases.