

January 31st MSS first year master students will conclude the case with a presentation of the results.

Program Track Medical Sensing and Simulation (TL3338)

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| Pauze 11.00- 11.15 uur | | |
| 10.00-10.30 | Group 1: <i>Isabelle Busman</i> <i>Nienke Timmermans</i> <i>Lieuwe Verkaar</i> <i>Iris Visser</i> | Innovative bedside method for monitoring cerebral perfusion in post-cardiac arrest patients on veno-arterial extracorporeal membrane oxygenation |
| 10.30- 11.00 | Group 2: <i>Nicole de Kruijf</i> <i>Stefan Lip</i> <i>Leen Vanwinsen</i> <i>Lisa Vulders</i> | Cerebral perfusion monitoring with a combination of transcranial Doppler and contrast enhanced ultrasound. |
| Pauze 11.00- 11.15 uur | | |
| 11.15- 11.45 | Group 3: <i>Jason den Duijn</i> <i>Stefan van Haren</i> <i>Jari de Rover</i> <i>Hille Torenvlied</i> | Optimizing the cerebral perfusion pressure through continuous monitoring of the cerebral metabolism with arterial-venous O ₂ and glucose difference measurement and intracranial pressure regulation with two-depth doppler. |
| 11.45- 12.15 | Group 4: <i>Cecil ten Cate</i> <i>Véronique Gubbels</i> <i>Lotte Hazeleger</i> <i>Peter van 't Ooster</i> | Prevention of brain injury in VA-ECMO patients by transcerebral thermodilution |
| 12.15- 12.45 | Group 5: <i>Cindel Albers</i> <i>Ingrid de Bekker</i> <i>Wibrich Boskma</i> <i>Eva Groenendijk</i> | Ultrafast ultrasound localization microscopy to monitor cerebral in ICU patients receiving ECMO |
| Pauze: 12.45- 13.15 uur | | |
| 13.15- 13.45 | Group 6: <i>Irene Heijink</i> <i>Susanne Jelsma</i> <i>Anne- Lynn Paalvast</i> <i>Anna Schoonhoven</i> <i>Maaïke Wösten</i> | Real-time monitoring of cerebral perfusion and adjustment of ECMO flow after cardiac arrest |
| 13.45- 14.15 | Group 7: <i>Deborah Hubers</i> <i>Marit Nelissen</i> <i>Myrthe Schoenmakers</i> <i>Jacomine Tertoolen</i> | Oxi-OCTA for monitoring Retinal Blood Flow and Oxygen Saturation as a measure for Cerebral Blood Flow during ECMO. |
| Afsluiting (ruimte voor overleg beoordeling) | | |