

Thomas Scheeren

Critical care, Anesthesiology, Peri-operative and Emergency medicine (CAPE)



## Employment

**Critical care, Anesthesiology, Peri-operative and Emergency medicine (CAPE)**

University of Groningen

Netherlands

1-Jan-2012 → present

## Research output

### **Prognostic Value of Perioperative Near-Infrared Spectroscopy Monitoring for Postoperative Acute Kidney Injury in Pediatric Cardiac Surgery: A Systematic Review**

Niezen, C. K., Modestini, M., Massari, D., Bos, A. F., Scheeren, T. W. L., Struys, M. M. R. F. & Vos, J. J., 10-Feb-2025, (E-pub ahead of print) In: *Seminars in Cardiothoracic and Vascular Anesthesia*.

Deep learning model to identify and validate hypotension endotypes in surgical and critically ill patients

Jian, Z., Liu, X., Kouz, K., Settels, J. J., Davies, S., Scheeren, T. W. L., Fleming, N. W., Veelo, D. P., Vlaar, A. P. J., Sander, M., Cannesson, M., Berger, D., Pinsky, M. R., Sessler, D. I., Hatib, F. & Saugel, B., Feb-2025, In: *British Journal of Anaesthesia*. p. 308-316 9 p.

### **Plasma transfusion in the intensive care unit**

InPUT Study Group, van Haeren, M. M. T., Raasveld, S. J., de Bruin, S., Reuland, M. C., van den Oord, C., Schenk, J., Aubron, C., Bakker, J., Cecconi, M., Feldheiser, A., de Grooth, H.-J., Meier, J., Scheeren, T. W. L., McQuilten, Z., Flint, A., Hamid, T., Piagnerelli, M., Mahečić, T. T. & Benes, J. & 22 others, Russell, L., Aguirre-Bermeo, H., Triantafyllopoulou, K., Chantziara, V., Gurjar, M., Myatra, S. N., Pota, V., Elhadi, M., Gawda, R., Mourisco, M., Lance, M., Neskovic, V., Podbregar, M., Llau, J. V., Quintana-Diaz, M., Cronhjort, M., Pfortmueller, C. A., Yapici, N., Nielsen, N. D., Shah, A., Vlaar, A. P. J. & Müller, M. C. A., Jan-2025, In: *Transfusion*. 65, 1, p. 73-87 15 p.

### **Comparing the haemodynamic effects of high- and low-dose opioid anaesthesia: a secondary analysis of a randomised controlled trial**

Marges, O. M., Nieboer, J. P., de Keijzer, I. N., Rettab, R., van Amsterdam, K., Scheeren, T. W. L., Absalom, A. R. A., Vereecke, H. E. M., Struys, M. M. R. F., Vos, J. J. & van den Berg, J. P., Dec-2024, In: *Journal of Clinical Monitoring and Computing*. 38, p. 1347-1355 9 p.

### **Association of early perioperative stroke after cardiothoracic surgery with intraoperative regional cerebral oxygenation using near-infrared spectroscopy: an observational cohort study comparing affected versus non-affected hemispheres**

Pierik, R., Scheeren, T. W. L., Erasmus, M. E. & van den Bergh, W. M., 20-Nov-2024, (E-pub ahead of print) In: *Journal of Clinical Monitoring and Computing*. 11 p.

### **Comparison of Differences in Cohort (Forward) and Case Control (Backward) Methodologic Approaches for Validation of the Hypotension Prediction Index**

Davies, S. J., Sessler, D. I., Jian, Z., Fleming, N. W., Mythen, M., Maheshwari, K., Veelo, D. P., Vlaar, A. P., Settels, J., Scheeren, T., van der Ster, B., Sander, M., Cannesson, M. & Hatib, F., 1-Sept-2024, In: *Anesthesiology*. 141, 3, p. 443-452 10 p.

### **Can the values of the venous-to-arterial pCO<sub>2</sub> difference (pCO<sub>2</sub> gap) be negative? A response**

de Keijzer, I. N., Kaufmann, T., de Waal, E. E. C., Frank, M., de Korte-de Boer, D., Monteni, L. M., Buhre, W. F. F. A. & Scheeren, T. W. L., Aug-2024, In: *Journal of Clinical Monitoring and Computing*. 38, p. 929-930 2 p.

**The effects of respiratory rate and tidal volume on pulse pressure variation in healthy lungs—a generalized additive model approach may help overcome limitations**

Enevoldsen, J., Brandsborg, B., Juhl-Olsen, P., Rees, S. E., Thaysen, H. V., Scheeren, T. W. L. & Vistisen, S. T., Aug-2024, In: *Journal of Clinical Monitoring and Computing*. 38, 4, p. 57–67 11 p.

**Can perioperative pCO<sub>2</sub> gaps predict complications in patients undergoing major elective abdominal surgery randomized to goal-directed therapy or standard care? : A secondary analysis**

de Keijzer, I. N., Kaufmann, T., de Waal, E. E. C., Frank, M., de Korte-de Boer, D., Monteni, L. M., Buhre, W. & Scheeren, T. W. L., Apr-2024, In: *Journal of Clinical Monitoring and Computing*. 38, p. 469–477 9 p.

**Impact of clinicians' behavior, an educational intervention with mandated blood pressure and the hypotension prediction index software on intraoperative hypotension: a mixed methods study**

de Keijzer, I. N., Vos, J. J., Yates, D., Reynolds, C., Moore, S., Lawton, R. J., Scheeren, T. W. L. & Davies, S. J., Apr-2024, In: *Journal of Clinical Monitoring and Computing*. 38, p. 325–335 11 p.

**Cerebral oximetry**

Massari, D., de Keijzer, I. N., Vos, J. J. & Scheeren, T. W. L., 2024, *Hemodynamic Monitoring and Fluid Therapy during Surgery*. Joosten, A., Cannesson, M. & Hahn, R. G. (eds.). Cambridge University Press

**Hypotension Prediction Index software alarms during major noncardiac surgery: a post hoc secondary analysis of the EU-HYPROTECT registry**

Kouz, K., Scheeren, T. W. L., van den Boom, T. & Saugel, B., Dec-2023, In: *BJA open*. 8, 3 p., 100232.

**Red Blood Cell Transfusion in the Intensive Care Unit**

InPUT Study Group, Raasveld, S. J., de Bruin, S., Reuland, M. C., van den Oord, C., Schenk, J., Aubron, C., Bakker, J., Cecconi, M., Feldheiser, A., Meier, J., Müller, M. C. A., Scheeren, T. W. L., McQuilten, Z., Flint, A., Hamid, T., Piagnerelli, M., Tomic Mahecic, T., Benes, J. & Russell, L. & 21 others, Aguirre-Bermeo, H., Triantafyllopoulou, K., Chantziara, V., Gurjar, M., Myatra, S. N., Pota, V., Elhadi, M., Gawda, R., Mourisco, M., Lance, M., Neskovic, V., Podbregar, M., Llau, J. V., Quintana-Diaz, M., Cronhjort, M., Pfortmueller, C. A., Yapici, N., Nielsen, N. D., Shah, A., de Grooth, H.-J. & Vlaar, A. P. J., 21-Nov-2023, In: *JAMA*. 330, 19, p. 1852-1861 10 p.

**Red blood cell transfusion in the intensive care unit: the InPUT-study, a Worldwide Prospective Cohort Study on Transfusion Practices**

Raasveld, J., de Bruin, S., Reuland, M., van den Oord, C., Schenk, J., Aubron, C., Bakker, J., Cecconi, M., Feldheiser, A., Meier, J., Müller, M. C. A., Scheeren, T., McQuilten, Z., De grooth, H. J. & Vlaar, A. P. J., 24-Oct-2023, In: *Intensive Care Medicine Experimental*. 11, Suppl 1, p. 9-10 2 p.

**Procedural sedation duration and the relation with formation of atelectasis and respiratory complaints**

Driesens, M., Absalom, A., Scheeren, T., Meyer, P., Vos, J. J. & Barends, C., Jul-2023, In: *Canadian journal of anaesthesia-Journal canadien d anesthésie*. 70, p. 1275-1276 2 p.

**Near-infrared spectroscopy and processed electroencephalogram monitoring for predicting peri-operative stroke risk in cardiothoracic surgery: An observational cohort study**

Pierik, R., Scheeren, T. W. L., Erasmus, M. E. & Van Den Bergh, W. M., 1-Jun-2023, In: *European Journal of Anaesthesiology*. 40, 6, p. 425-435 11 p.

**Effects of norepinephrine and general anaesthesia on the mean systemic filling pressure**

de Keijzer, I. N., van den Berg, J. P., Struys, M. M., Scheeren, T. W. & Vos, J. J., Jun-2023, In: *European Journal of Anaesthesiology*. 40, e-Supplement 61, p. 62-63 2 p.

**Monitoring en hemodynamische therapie**

de Waal, E. E. C., Scheeren, T. W. L. & Wietasch, J. K. G., 1-May-2023, *Handboek PACU: Intensieve postoperatieve patiëntenzorg*. de Bruin, A. F. J., van Dongen, H. P. A. & van Fessem, J. M. K. (eds.). Bohn, Stafleu, Van Loghum

**Mitral Valve Coaptation Reserve Index: A Model to Localize Individual Resistance to Mitral Regurgitation Caused by Annular Dilation**

Jainandunsing, J. S., Massari, D., Vos, J. J., Wijdh-den Hamer, I. J., van den Heuvel, A. F., Mariani, M. A., Mahmood, F., Bouma, W. & Scheeren, T. W. L., May-2023, In: Journal of cardiothoracic and vascular anesthesia. 37, 5, p. 690-697 8 p.

**Pharmacodynamic Effects of Norepinephrine in a Cross-Over Study with Awake and Anesthetized Healthy Volunteers**

de Keijzer, I., van den Berg, J., Absalom, A., Bosch, D., van Faassen, M., Scheeren, T., Struys, M., Colin, P. & Vos, J. J., May-2023, In: Anesthesia and Analgesia. 136, 5S, p. 813 1 p.

**Individualised perioperative blood pressure and fluid therapy in oesophagectomy: study protocol for a randomised clinical trial**

Hovgaard, H. L., Vistisen, S., Enevoldsen, J., de Paoli, F., Scheeren, T. W. L., Katballe, N., Kjaer, D. W., Linnemann, G., Jørgensen, M. R. S., Karaliunaite, Z., Jeppesen, A. N. & Juhl-Olsen, P., 24-Apr-2023, In: Danish Medical Journal. 70, 5, 10 p., A10220640.

**Haemodynamic monitoring and management in patients having noncardiac surgery: A survey among members of the European Society of Anaesthesiology and Intensive Care**

Flick, M., Joosten, A., Scheeren, T. W. L., Duranteau, J. & Saugel, B., 16-Jan-2023, In: European Journal of Anaesthesiology and Intensive Care. 2, 1, 9 p., e0017.

**Microvascular effects of oxygen and carbon dioxide measured by vascular occlusion test in healthy volunteers**

Niezen, C. K., Vos, J. J., Bos, A. F. & Scheeren, T. W. L., Jan-2023, In: Microvascular research. 145, 7 p., 104437.

**Agreement of somatic and renal near-infrared spectroscopy with reference blood samples during a controlled hypoxia sequence: a healthy volunteer study**

De Keijzer, I. N., Massari, D., Niezen, C. K., Bokkers, R. P. H., Vos, J. J. & Scheeren, T. W. L., 2023, In: Journal of Clinical Monitoring and Computing. 37, p. 805–814 10 p.

**Predicting early perioperative stroke after cardiothoracic surgery through assessment of intraoperative regional cerebral oxygenation in affected versus non-affected hemispheres using near-infrared spectroscopy**

Pierik, R., Scheeren, T. W. L., Erasmus, M. E. & van den Bergh, W. M., 2023.

**Pharmacological inhibition of protein tyrosine kinases axl and fyn reduces TNF- $\alpha$ -induced endothelial inflammatory activation in vitro**

Ellermann, S. F., Jongman, R. M., Luxen, M., Kuiper, T., Plantinga, J., Moser, J., Scheeren, T. W. L., Theilmeier, G., Molema, G. & Van Meurs, M., 1-Dec-2022, In: Frontiers in Pharmacology. 13, 13 p., 992262.

**Effective hemodynamic monitoring**

Pinsky, M. R., Cecconi, M., Chew, M. S., De Backer, D., Douglas, I., Edwards, M., Hamzaoui, O., Hernandez, G., Martin, G., Monnet, X., Saugel, B., Scheeren, T. W. L., Teboul, J. L. & Vincent, J. L., Dec-2022, In: Critical care. 26, 1, 294.

**Near-infrared spectroscopy monitoring during endovascular treatment for acute ischaemic stroke**

Collette, S. L., Venema, A. M., Eleveld, N., Absalom, A. R., Scheeren, T. W. L., Verhoeve, S., de Groot, J. C., Elting, J. W. J., Uyttenboogaart, M., Bokkers, R. P. H. & Sahinovic, M. M., Dec-2022, In: European Stroke Journal. 7, 4, p. 384-392 9 p.

**Response to comments**

de Waal, E. E. C., Frank, M., Scheeren, T. W. L., Kaufmann, T., de Korte-de Boer, D., Cox, B., van Kuijk, S. M. J., Montenij, L. M. & Buhre, W., Nov-2022, In: Journal of clinical anesthesia. 82, 3 p., 110922.

**Comparison of Machine Learning Models Including Preoperative, Intraoperative, and Postoperative Data and Mortality After Cardiac Surgery**

Castela Forte, J., Yeshmagambetova, G., van der Grinten, M. L., Scheeren, T. W. L., Nijsten, M. W. N., Mariani, M. A., Henning, R. H. & Epema, A. H., 3-Oct-2022, In: Jama network open. 5, 10, 14 p., e2237970.

**'If you don't take a temperature, you can't find a fever': relevance to continuous arterial pressure monitoring**  
van Lier, F., Bouwman, R. A. & Scheeren, T. W. L., Oct-2022, In: British Journal of Anaesthesia. 129, 4, p. 464-468 5 p.

**Mild hypothermia during cardiopulmonary bypass assisted CABG is associated with improved short- and long-term survival, a 18- year cohort study**

Hendriks, K. D. W., Castela Forte, J. N., Kok, W. F., Mungroop, H. E., Bouma, H. R., Scheeren, T. W. L., Mariani, M., Henning, R. H. & Epema, A. H., Aug-2022, In: PLoS ONE. 17, 8, 14 p., e0273370.

**The use of a vascular occlusion test combined with near-infrared spectroscopy in perioperative care: a systematic review**

Niezen, C. K., Massari, D., Vos, J. J. & Scheeren, T. W. L., Aug-2022, In: Journal of Clinical Monitoring and Computing. 36, p. 933-946 14 p.

**Microcirculatory tissue perfusion during general anaesthesia and noncardiac surgery: An observational study using incident dark field imaging with automated video analysis**

Flick, M., Schreiber, T.-H., Montomoli, J., Krause, L., de Boer, H. D., Kouz, K., Scheeren, T. W. L., Ince, C., Hilty, M. P. & Saugel, B., 1-Jul-2022, In: European Journal of Anaesthesiology. 39, 7, p. 582-590 9 p.

**Comparison of renal region, cerebral and peripheral oxygenation for predicting postoperative renal impairment after CABG**

de Keijzer, I. N., Poterman, M., Absalom, A. R., Vos, J. J., Mariani, M. A. & Scheeren, T. W. L., Jun-2022, In: Journal of clinical monitoring and computing. 36, p. 735-743 9 p.

**Conversations with the Editors: Artificial Intelligence-Based Technologies Leading the Innovation in Surgical Care**

Ravera, L., Scheeren, T. W. L., Piaggio, D. & Federici, C., Jun-2022, In: Clinical Therapeutics. 44, 6, p. 828-834 7 p.

**Patient monitoring, wearable devices, and the healthcare information ecosystem**

Webster, C. S., Scheeren, T. W. L. & Wan, Y. I., May-2022, In: British Journal of Anaesthesia. 128, 5, p. 756-758 3 p.

**An international survey of adherence to Surviving Sepsis Campaign Guidelines 2016 regarding fluid resuscitation and vasopressors in the initial management of septic shock**

Bitton, E., Zimmerman, S., Azevedo, L. C. P., Benhamou, D., Cecconi, M., De Waele, J. J., Lipman, J., Martin-Loeches, I., Pirracchio, R., Scheeren, T. W. L., Leone, M. & Einav, S., Apr-2022, In: Journal of Critical Care. 68, p. 144-154 11 p.

**What is new in microcirculation and tissue oxygenation monitoring?**

de Keijzer, I. N., Massari, D., Sahinovic, M., Flick, M., Vos, J. J. & Scheeren, T. W. L., Apr-2022, In: Journal of Clinical Monitoring and Computing. 36, p. 291-299 9 p.

**The contemporary pulmonary artery catheter. Part 2: measurements, limitations, and clinical applications**

Bootsma, I. T., Boerma, E. C., Scheeren, T. W. L. & de Lange, F., 1-Mar-2022, In: Journal of clinical monitoring and computing. 36, p. 17-31 15 p.

**Early Thromboembolic Stroke Risk of Postoperative Atrial Fibrillation Following Cardiac Surgery**

Pierik, R., Zeillemaker-Hoekstra, M., Scheeren, T. W. L., Erasmus, M. E., Luijckx, G.-J. R., Rienstra, M., Uyttenboogaart, M., Nijsten, M. & van den Bergh, W. M., Mar-2022, In: Journal of cardiothoracic and vascular anesthesia. 36, 3, p. 807-814 8 p.

**Wireless wearables for postoperative surveillance on surgical wards: a survey of 1158 anaesthesiologists in Western Europe and the USA**

Collaborators, Michard, F., Thiele, R. H., Saugel, B., Joosten, A., Flick, M. & Khanna, A. K., Mar-2022, In: BJA open. 1, 100002.

**Prospective, randomized, controlled, double-blind, multi-center, multinational study on the safety and efficacy of 6% Hydroxyethyl starch (HES) sOolution versus an Electrolyte solution In patients undergoing eleCtive abdominal Surgery: study protocol for the PHOENICS study**

Buhre, W., de Korte-de Boer, D., de Abreu, M. G., Scheeren, T., Gruenewald, M., Hoefl, A., Spahn, D. R., Zarbock, A., Daamen, S., Westphal, M., Brauer, U., Dehnhardt, T., Schmier, S., Baron, J.-F., De Hert, S., Gavranovic, Z., Cholley, B., Vymazal, T., Szczeklik, W. & Bornemann-Cimenti, H. & 4 others, Soro Domingo, M. B., Grintescu, I., Jankovic, R. & Belda, J., 22-Feb-2022, In: Trials. 23, 1, 13 p., 168.

#### **Current practice and evolving concepts in septic shock resuscitation**

Bakker, J., Kattan, E., Annane, D., Castro, R., Cecconi, M., de Backer, D., Dubin, A., Evans, L., Gong, M. N., Hamzaoui, O., Ince, C., Levy, B., Monnet, X., Ospina Tascon, G. A., Ostermann, M., Pinsky, M. R., Russell, J. A., Saugel, B., Scheeren, T. W. L. & Teboul, J.-L. & 4 others, Baron, A. V., Vincent, J.-L., Zampieri, F. G. & Hernandez, G., Feb-2022, In: Intensive Care Medicine. 48, 2, p. 148-163 16 p.

#### **Monitoring, management, and outcome of hypotension in Intensive Care Unit patients, an international survey of the European Society of Intensive Care Medicine**

Cardiovascular Dynamics Section of the ESICM, van der Ven, W. H., Schuurmans, J., Schenk, J., Roerhorst, S., Cherpanath, T. G. V., Lagrand, W. K., Thorald, P., Elbers, P. W. G., Tuinman, P. R., Scheeren, T. W. L., Bakker, J., Geerts, B. F., Veelo, D. P., Paulus, F. & Vlaar, A. P. J., Feb-2022, In: Journal of Critical Care. 67, p. 118-125 8 p.

#### **The contemporary pulmonary artery catheter. Part 1: placement and waveform analysis**

Bootsma, I. T., Boerma, E. C., de Lange, F. & Scheeren, T. W. L., Feb-2022, In: Journal of clinical monitoring and computing. 36, p. 5-15 11 p.

#### **Transfusion practice in the bleeding critically ill: An international online survey-The TRACE-2 survey**

Cardiovasc Dynamics Sect Transfus, de Bruin, S., Eggermont, D., van Bruggen, R., de Korte, D., Scheeren, T. W. L., Bakker, J. & Vlaar, A. P. J., Feb-2022, In: Transfusion. 62, 2, p. 324-335 12 p.

#### **Existing fluid responsiveness studies using the mini-fluid challenge may be misleading: Methodological considerations and simulations**

Enevoldsen, J., Scheeren, T. W. L., Berg, J. M. & Vistisen, S. T., Jan-2022, In: Acta Anaesthesiologica Scandinavica. 66, 1, p. 17-24 8 p.

#### **Correction to: Comparison of renal region, cerebral and peripheral oxygenation for predicting postoperative renal impairment after CABG (Apr, 10.1007/s10877-021-00701-4, 2021)**

de Keijzer, I. N., Poterman, M., Absalom, A. R., Vos, J. J., Mariani, M. A. & Scheeren, T. W. L., 2022, In: Journal of Clinical Monitoring and Computing. 1 p.

#### **Do alterations in pulmonary vascular tone result in changes in central blood volumes? An experimental study: An experimental study**

Vos, J. J., Wietasch, J. K. G., Hoefft, A. & Scheeren, T. W. L., 17-Dec-2021, In: Intensive Care Medicine Experimental. 9, 1, 12 p., 59.

#### **Cerebral monitoring in surgical ICU patients**

Massari, D., de Keijzer, I. N. & Scheeren, T. W. L., Dec-2021, In: Current opinion in critical care. 27, 6, p. 701-708 8 p.

#### **Perioperative goal-directed therapy in high-risk abdominal surgery. A multicenter randomized controlled superiority trial: A multicenter randomized controlled superiority trial**

de Waal, E. E. C., Frank, M., Scheeren, T. W. L., Kaufmann, T., de Korte, D. J. D., Cox, B., van Kuijk, S. M. J., Montenij, L. M. & Buhre, W., Dec-2021, In: Journal of clinical anaesthesia. 75, 9 p., 110506.

#### **Plasma from patients undergoing coronary artery bypass graft surgery does not activate endothelial cells under shear stress in vitro**

Ellermann, S. F., L Scheeren, T. W., Jongman, R. M., Nordhoff, K., Schnabel, C. L., Molema, G., Theilmeier, G. & Meurs, M. V., 12-Nov-2021, In: International journal of critical illness and injury science. 11, 3, p. 142-150 9 p.

#### **Definition and incidence of hypotension in intensive care unit patients, an international survey of the European Society of Intensive Care Medicine**

Cardiovascular Dynamics Section of the ESICM, Schenk, J., van der Ven, W. H., Schuurmans, J., Roerhorst, S., Cherpanath, T. G. V., Lagrand, W. K., Thorald, P., Elbers, P. W. G., Tuinman, P. R., Scheeren, T. W. L., Bakker, J., Geerts, B. F., Veelo, D. P., Paulus, F. & Vlaar, A. P. J., Oct-2021, In: Journal of Critical Care. 65, p. 142-148 7 p.

**High Versus Normal Blood Pressure Targets in Relation to Right Ventricular Dysfunction After Cardiac Surgery: A Randomized Controlled Trial**

Bootsma, I. T., de Lange, F., Scheeren, T. W. L., Jainandunsing, J. S. & Boerma, E. C., Oct-2021, In: Journal of cardiothoracic and vascular anesthesia. 35, 10, p. 2980-2990 11 p.

**The effect of compliance with a perioperative goal-directed therapy protocol on outcomes after high-risk surgery: a before-after study**

Boekel, M. F., Venema, C. S., Kaufmann, T., van der Horst, I. C. C., Vos, J. J. & Scheeren, T. W. L., Oct-2021, In: Journal of clinical monitoring and computing. 35, p. 1193-1202 10 p.

**Perioperative Hemodynamic Monitoring: An Overview of Current Methods**

de Keijzer, I. N. & Scheeren, T. W. L., Sept-2021, In: Anesthesiology clinics. 39, 3, p. 441-456 16 p.

**Perioperative optimization using hemodynamically focused echocardiography in high-risk patients-A practice guide**

Trauzeddel, R. F., Nordine, M., Groesdonk, H. V., Michels, G., Pfister, R., Reuter, D. A., Scheeren, T. W. L., Berger, C. & Treskatsch, S., Sept-2021, In: Anaesthesist. 70, p. 772-784 13 p.

**Comparison of haemodynamic- and electroencephalographic-monitored effects evoked by four combinations of effect-site concentrations of propofol and remifentanyl, yielding a predicted tolerance to laryngoscopy of 90%**

van den Berg, J. P., Absalom, A. R., Venema, A. M., Kalmar, A. F., Van Amsterdam, K., Hannivoort, L. N., Proost, J. H., Meier, S., Scheeren, T. W. L., Struys, M. M. R. F. & Vereecke, H. E. M., Aug-2021, In: Journal of clinical monitoring and computing. 35, p. 815-825 11 p.

**VitalDB: fostering collaboration in anaesthesia research**

Vistisen, S. T., Pollard, T. J., Enevoldsen, J. & Scheeren, T. W. L., Aug-2021, In: British Journal of Anaesthesia. 127, 2, p. 184-187 5 p.

**Very early creatinine changes and 30-day mortality after cardiac surgery**

Bouma, H. R., Mungroop, H. E., Scheeren, T. W. L. & Epema, A. H., 1-Jun-2021, In: European Journal of Anaesthesiology. 38, 6, p. 665-665 1 p.

**Efficacy and safety of ceftobiprole in patients aged 65 years or older: a post hoc analysis of three Phase III studies**

Welte, T., Scheeren, T. W., Overcash, J. S., Saulay, M., Engelhardt, M. & Hamed, K., May-2021, In: Future microbiology. 16, 8, p. 543-555 13 p.

**The effect of moderate intraoperative blood loss and norepinephrine therapy on sublingual microcirculatory perfusion in patients having open radical prostatectomy: An observational study**

Flick, M., Briesenick, L., Peine, S., Scheeren, T. W. L., Duranteau, J. & Saugel, B., May-2021, In: European Journal of Anaesthesiology. 38, 5, p. 459-467 9 p.

**Perioperative echocardiography-guided hemodynamic therapy in high-risk patients: a practical expert approach of hemodynamically focused echocardiography**

Trauzeddel, R. F., Ertmer, M., Nordine, M., Groesdonk, H. V., Michels, G., Pfister, R., Reuter, D., Scheeren, T. W. L., Berger, C. & Treskatsch, S., Apr-2021, In: Journal of clinical monitoring and computing. 35, 2, p. 229-243 15 p.

**Ensemble machine learning prediction and variable importance analysis of 5-year mortality after cardiac valve and CABG operations**

Castela Forte, J., Mungroop, H. E., de Geus, F., van der Grinten, M. L., Bouma, H. R., Pettilä, V., Scheeren, T. W. L., Nijsten, M. W. N., Mariani, M. A., van der Horst, I. C. C., Henning, R. H., Wiering, M. A. & Epema, A. H., 10-Feb-2021, In: Scientific Reports. 11, 1, 11 p., 3467.

**Metrology part 1: definition of quality criteria**

Squara, P., Scheeren, T. W. L., Aya, H. D., Bakker, J., Cecconi, M., Einav, S., Malbrain, M. L. N. G., Monnet, X., Reuter, D. A., van der Horst, I. C. C. & Saugel, B., Feb-2021, In: Journal of clinical monitoring and computing. 35, p. 17-25 9 p.

**Metrology part 2: Procedures for the validation of major measurement quality criteria and measuring instrument properties**  
Squara, P., Scheeren, T. W. L., Aya, H. D., Bakker, J., Cecconi, M., Einav, S., Malbrain, M. L. N. G., Monnet, X., Reuter, D. A., van der Horst, I. C. C. & Saugel, B., Feb-2021, In: Journal of clinical monitoring and computing. 35, p. 27–37 11 p.

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