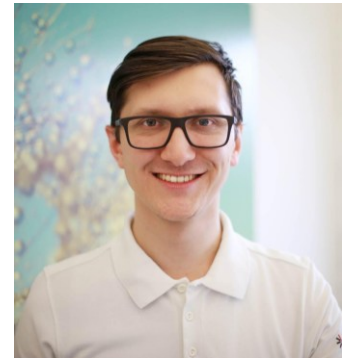


.Curriculum vitae Christian Puelacher



Personal information

Name: Christian Puelacher
Date of birth: 21.04.1988
Citizenship: Austria
Children: 3 daughters (9, 5, 2)
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Education

2025-current Invasive Cardiology Fellowship, University Hospital Innsbruck
2023-2024 Residency Cardiology, University Hospital Innsbruck
2021-2023 Residency Cardiology, University Hospital Basel
2017-2020 Residency Internal Medicine, University Hospital Basel
2013-2017 Doctoral studies, University Hospital Basel, Supervisor: Prof. Christian Müller, Switzerland
2007-2013 Medical studies, Medical University Innsbruck, Austria

Employment history

2024-current Attending Cardiology, University Hospital Innsbruck, Prof. Axel Bauer
2023-2024 Residency Cardiology, University Hospital Innsbruck, Prof. Axel Bauer
2022-2024 Research Group Leader “Perioperative Cardiology”, Cardiovascular Research Institute Basel, University Hospital Basel
2021-2023 Residency Cardiology at the University Hospital Basel, Prof. Stefan Osswald
2017-2022 Post-doc perioperative cardiac care at the Cardiovascular Research Institute Basel, University Hospital Basel
2017-2020 Residency Internal Medicine at the University Hospital Basel, Prof. Stefano Bassetti
2014-2017 PhD candidate at the Cardiovascular Research Institute Basel, University Hospital Basel, Prof. Christian Müller
2013-2014 Fellow and MD candidate at the Cardiovascular Research Institute Basel, University Hospital Basel, Prof. Christian Müller
2013-2013 Study coordinator for the ISCHEMIA trial, Medical University Innsbruck
2010-2013 Speaker at the “Institut für Studentenkurse”, Innsbruck, group and private tutoring

Approved research projects

- Basel Incidence, Patient Characteristics, Pathophysiology, and Outcome of Perioperative Myocardial Injury After Non-cardiac Surgery (BASEL-PMI, NCT02573532); prospective pragmatic observational study [2014]
- Reliability of cardiac troponins for the diagnosis of myocardial infarction in the presence of rhabdomyolysis; retrospective cohort study [2016]
- Impact of implementation of a routine screening and response system for perioperative myocardial injuries/infarctions after non-cardiac surgery (Impact-PMI); retrospective case-cohort study [2019]
- Implementation of a clinical screening and response system for perioperative myocardial infarction/injury after noncardiac surgery (Implement-PMI); prospective multicenter before-after comparison, pilot study [2021]
- Continuous Monitoring of Vital Signs for Improved Phenotyping of Perioperative Myocardial Infarction/Injury after noncardiac surgery in high risk patients (PMI-VITAL); prospective observational study [2022]
- Evaluating large language models in chronic heart failure - Bridging the Bytes in Heart Failure (LLM in CHF): prospective in-silico + questionnaire [2025]
- Ermittlung individualisierter Referenzwerte für NT-proBNP bei Patienten mit chronischer Herzinsuffizienz (d4Health): retrospective cohort study [2025]
- Prospective, Randomized open label Trial of Telemedically Assisted optimization for Heart Failure Patients Before Cardiac Surgery to improve perioperative outcome (PREPARE-HF); randomized controlled open-label management trial [2025]

Supervision of junior researchers

- Master students Luca Osswald, Christina Hollenstein, Lukas Bock, Ekrem Temizel, Noemi Glarner, Saranya Thambipillai, Christina Hollenstein
- MD candidates Johanna Gückel, Reka Hidvegi, Deborah Müller, Lorraine Sazgary, Matthias Gugala, Rebecca Meister, Samantha Weder
- PhD candidates Noemi Glarner, MD; Mirjam Pargger, MD

Teaching activities

- Academia “Herz-Kreislauf-Modul”, Medical University Innsbruck
Echocardiography course, Medical University Innsbruck

Seminar supervisor methods and statistics classes, POEM, Medical University Basel
Speaker methods and statistics classes, Cardiovascular Research Institute Basel, University Hospital Basel
Tutor at the Institute of Anatomy, Innsbruck
Industry Speaker at the “Institut für Studentenkurse”, Innsbruck
Speaker Thought Leadership, Roche

Membership in panels, boards and scientific reviewing activities

Panel work Student representative at PhD Educational Platform for Health Sciences, Basel
Chair, Advisory Board Perioperative Myocardial Infarction, Roche Diagnostics
Biomarker study group, European Society of Anaesthesiology and Intensive Care
AG Herzinsuffizienz, Austrian Society of Cardiology
Peer-reviewer American Journal of Cardiology, European Journal of Clinical Investigations, European Heart Journal, Journal of the American College of Cardiology, Anesthesia & Analgesia, NEJM
Editorial Board Journal für Kardiologie (Austria, 2025-2026)
Hospital IT Version beta-tester R + R-Studio and Mendeley, Basel

Active membership in scientific societies

Fellow of the European Society of Cardiology
Austrian Society of Cardiology

Organisation of courses and conferences

Courses Handling of Missing Data, June 2017
PhD Methods-Journalclub Health Sciences, 2015-2017
Cardiology resident curriculum, Hospital Basel, 2022-2023
CHF-Konsensusmeeting, 2024/2025

Prizes, awards, fellowships

Grants Personal:
PPHS Top-Up 2016 (9500 CHF)
VWFAWF PhD-Stipend 2016 (75000 CHF)
Projectgrants (academic):
Swiss Heart Foundation 2022: Vital-PMI (50000 CHF)
Swiss Heart Foundation 2023: Implement-PMI (50000 CHF)
Projectgrants (industry):
Roche Diagnostics (130000 CHF): BASEL-PMI subproject
Roche Diagnostics (150000 CHF): IMPACT-PMI

Prizes Roche Diagnostics (201000 CHF): Implement-PMI
Otto-Hess-Trainee Award, 2018
Best presentations: Clinical Research Day 2017; IGM 2019 +
IGM 2023; GREAT 2024

Career breaks

01-04 2021 Paternity leave
07-08 2023 Paternity leave

Research output list

List available at: <https://scholar.google.com/citations?user=pbC4PnkAAAAJ&hl=en>

Peer-reviewed publications in international scientific journals

First or Co-first author publications (* marks corresponding author)

1. **Puelacher C**, Hillinger P, Wagener M, Müller C. Cardiac biomarkers for infarct diagnosis and early exclusion of acute coronary syndrome. *Herz*. 2014;39:1–4.
2. **Puelacher C**, Hillinger P, Wagener M, Müller C. Use of cardiac biomarkers for the diagnosis of myocardial infarction and heart failure | Kardiale Biomarker bei Myokardinfarkt und Herzinsuffizienz. *J für Kardiol*. 2015;22.
3. **Puelacher C**, Rudez J, Twerenbold R, Moreno Weidmann Z, Osswald S, Eckstein F, Lurati-Buse G, Pargger H, Mueller C. B-type natriuretic peptide secretion without change in intra-cardiac pressure. *Clin Biochem*. 2015;48:318–21.
4. Sou SM, **Puelacher C**, Twerenbold R, Wagener M, Honegger U, Reichlin T, Schaerli N, Pretre G, Abächerli R, Jaeger C, Rubini Gimenez M, Wild D, Rentsch KMKMKM, Zellweger MJMJ, Mueller C. Direct comparison of cardiac troponin I and cardiac troponin T in the detection of exercise-induced myocardial ischemia. *Clin Biochem*. 2015;49:421–432.
5. **Puelacher C**, Lurati-Buse G, Singeisen H, Dang M, Cuculi F, Müller C. Perioperative myocardial infarction/injury after noncardiac surgery. *Swiss Med Wkly*. 2015;145:w14219.
6. **Puelacher C**, Twerenbold R, Mosimann T, Boeddinghaus J, Gimenez MR, Wildi K, Jaeger C, Reichlin T, Schneider J, Honegger U, Max W, Schumacher C, Nestelberger T, Hillinger P, Grimm K, Kreuzinger P, Weidmann ZM, Rentsch K, Arnold C, Osswald S, Mueller C. Effects of hemolysis on the diagnostic accuracy of cardiac troponin I for the diagnosis of myocardial infarction. *Int J Cardiol*. 2015;187:313–5.
7. Gualandro DM, **Puelacher C**, Lurati Buse G, Llobet GB, Yu PC, Cardozo FA, Glarner N, Zimmerli A, Espinola J, Corbière S, Calderaro D, Marques AC, Casella IB, de Luccia N, Oliveira MT, Lampart A, Bolliger D, Steiner L, Seeberger M, Kindler C, Osswald S, Gürce L, Caramelli B, Mueller C, GREAT network. Prediction of major cardiac events after vascular surgery. *J Vasc Surg*. 2017;217:833–842.e1–3.
8. **Puelacher C**, Wagener M, Abächerli R, Honegger U, Lhasam N, Schaerli N, Prêtre G, Strelbel I, Twerenbold R, Boeddinghaus J, Nestelberger T, Rubini Giménez M, Hillinger P, Wildi K, Sabti Z, Badertscher P, Cupa J, Kozhuharov N, du Fay de Lavallaz J, Freese M, Roux I, Lohrmann J, Leber R, Osswald S, Wild D, Zellweger MJ, Mueller C, Reichlin T. Diagnostic value of ST-segment deviations during cardiac exercise stress testing: Systematic comparison of different ECG leads and time-points. *Int J Cardiol*. 2017;1–7.

9. **Puelacher C**, Wagener M, Honegger U, Assadian M, Schaerli N, Mueller D, Strebel I, Twerenbold R, Boeddinghaus J, Nestelberger T, Wildi K, Sabti Z, Sazgary L, Badertscher P, du Fay de Lavallaz J, Marbot S, Kaiser C, Wild D, Zellweger MJMJ, Reichlin T, Mueller C. Combining high-sensitivity cardiac troponin and B-type natriuretic peptide in the detection of inducible myocardial ischemia. *Clin Biochem*. 2018;52:33–40.
10. **Puelacher C**, Lurati Buse G, Seeberger D, Sazgary L, Marbot S, Lampart A, Espinola J, Kindler C, Hammerer A, Seeberger E, Strebel I, Wildi K, Twerenbold R, du Fay de Lavallaz J, Steiner L, Gurke L, Breidthardt T, Rentsch K, Buser A, Gualandro DM, Osswald S, Mueller C. Perioperative Myocardial Injury After Noncardiac Surgery: Incidence, Mortality, and Characterization. *Circulation*. 2018;137:1221–1232.
11. Gualandro DM, **Puelacher C**, LuratiBuse G, Lampart A, Strunz C, Cardozo FA, Yu PC, Jaffe AS, Barac S, Bock L, Badertscher P, du Fay de Lavallaz J, Marbot S, Sazgary L, Bolliger D, Rentsch K, Twerenbold R, Hammerer-Lercher A, Melo ES, Calderaro D, Duarte AJ, de Luccia N, Caramelli B, Mueller C, TropoVasc and BASEL-PMI Investigators. Comparison of high-sensitivity cardiac troponin I and T for the prediction of cardiac complications after non-cardiac surgery. *Am Heart J*. 2018;203:67–73.
12. Mueller D, **Puelacher C**, Honegger U, Walter JE, Badertscher P, Schaerli N, Strebel I, Twerenbold R, Boeddinghaus J, Nestelberger T, Hollenstein C, du Fay de Lavallaz J, Jeger R, Kaiser C, Wild D, Rentsch K, Buser A, Zellweger M, Reichlin T, Mueller C. Direct Comparison of Cardiac Troponin T and I Using a Uniform and a Sex-Specific Approach in the Detection of Functionally Relevant Coronary Artery Disease. *Clin Chem*. 2018;64:1596–1606.
13. Du Fay De Lavallaz J, **Puelacher C**, Lurati Buse G, Bolliger D, Germanier D, Hidvegi R, Walter JE, Twerenbold R, Strebel I, Badertscher P, Sazgary L, Lampart A, Espinola J, Kindler C, Hammerer-Lercher A, Thambipillai S, Guerke L, Rentsch K, Buser A, Gualandro D, Jakob M, Mueller C. Daytime variation of perioperative myocardial injury in non-cardiac surgery and effect on outcome. *Heart*. 2019;105:826–833.
14. **Puelacher C**, Gugala M, Adamson PD, Shah A, Chapman AR, Anand A, Sabti Z, Boeddinghaus J, Nestelberger T, Twerenbold R, Wildi K, Badertscher P, Rubini Gimenez M, Shrestha S, Sazgary L, Mueller D, Schumacher L, Kozhuharov N, Flores D, Du Fay De Lavallaz J, Miro O, Martín-Sánchez FJ, Morawiec B, Fahrni G, Osswald S, Reichlin T, Mills NL, Mueller C. Incidence and outcomes of unstable angina compared with non-ST-elevation myocardial infarction. *Heart*. 2019;105:1423–1431.
15. Hidvegi R, **Puelacher C***, Gualandro DM, Lampart A, Lurati Buse G, Hammerer-Lerchner A, Walter J, Liffert M, Bolliger D, Steiner L, Kindler C, Espinola J, Strebel I, Gueckel J, Marbot S, Arslani K, Boeddinghaus J, Nestelberger T, Zimmermann T, Freese M, Guerke L, Mujagic E, Rikli D, Buser A, Mueller C, Wolff T, Wildi K, Genini A, Twerenbold R, Sazgary L, Koechlin L, Wussler D, Breidthardt T, Flores D, Osswald S, Rentsch K. Obesity paradox and perioperative myocardial infarction/injury in non-cardiac surgery. *Clin Res Cardiol*. 2020;109:1140–1147.
16. **Puelacher C**, Gualandro DM, Lurati Buse G, Bolliger D, Marbot S, Kindler C, Hammerer-Lercher A, Gürke L, Steiner L, Mueller C. Etiology of Peri-Operative Myocardial Infarction/Injury After Noncardiac Surgery and Associated Outcome. *J. Am. Coll. Cardiol*. 2020;76:1910–1912.
17. Sazgary L, **Puelacher C***, Lurati Buse G, Glarner N, Lampart A, Bolliger D, Steiner L, Gürke L, Wolff T, Mujagic E, Schaeren S, Lardinois D, Espinola J, Kindler C, Hammerer-Lercher A, Strebel I, Wildi K, Hidvegi R, Gueckel J, Hollenstein C, Breidthardt T, Rentsch

- K, Buser A, Gualandro DM, Mueller C, Gürke L, Wolff T, Mujagic E, Schaeren S, Lardinois D, Espinola J, Kindler C, Hammerer-Lercher A, Strebel I, Wildi K, Hidvegi R, Gueckel J, Hollenstein C, Breidthardt T, Rentsch K, Buser A, Gualandro DM, Mueller C, Marbot S, Walter J, Freese M, Nestelberger T, Boeddinghaus J, de Lavallaz J du F, Twerenbold R, Badertscher P, Koechlin L, Zimmermann T, Troester V, Michou E, Osswald S, Seeberger E, Seeberger M, Rickli D, Wussler D, Dinort J, Prepoudis A, Meissner K, Fahrni G, Jeger R, Kaiser C, Infanti L. Incidence of major adverse cardiac events following non-cardiac surgery. *Eur Hear Journal Acute Cardiovasc Care*. 2020;zuaa008.
18. **Puelacher C***, Bollen Pinto B, Mills NL, Duceppe E, Popova EE, Duma A, Nagele P, Omland T, Hammerer-Lercher A, Lurati Buse G. Expert consensus on peri-operative myocardial injury screening in noncardiac surgery. *Eur J Anaesthesiol*. 2021;38:600–608.
 19. Gualandro DM, Puelacher C, Lurati Buse G, Glarner N, Cardozo FA, Vogt R, Hidvegi R, Strunz C, Bolliger D, Gueckel J, Yu PC, Liffert M, Arslani K, Prepoudis A, Calderaro D, Hammerer-Lercher A, Lampart A, Steiner LA, Schären S, Kindler C, Guerke L, Osswald S, Devereaux PJ, Caramelli B, Mueller C, Marbot S, Strebel I, Genini A, Rentsch K, Boeddinghaus J, Nestelberger T, Wild K, Zimmermann T, Duarte AJS, Buser A, de Luccia N, Koechlin L, Wussler D, Walter J, Widmer V, Freese M, Lopez-Ayala P, Twerenbold R, Badertscher P, Seeberger E, Wolff T, Mujagic E, Mehrkens A, Dinort J, Fahrni G, Jeger R, Kaiser C, Matheus M, Pastana AF. Incidence and outcomes of perioperative myocardial infarction/injury diagnosed by high-sensitivity cardiac troponin I. *Clin Res Cardiol*. 2021;
 20. Gueckel J, **Puelacher C***, Glarner N, Gualandro DM, Strebel I, Zimmermann T, Arslani K, Hidvegi R, Liffert M, Genini A, Marbot S, Schlaepfer M, Steiner LA, Bolliger D, Lampart A, Gürke L, Kindler C, Schären S, Osswald S, Clauss M, Rikli D, Lurati Buse G, Mueller C. Patient- and procedure-related factors in the pathophysiology of perioperative myocardial infarction/injury. *Int J Cardiol*. 2022;353:15–21.
 21. Kvarda P, Puelacher C, Clauss M, Kuehl R, Gerhard H, Mueller C, Morgenstern M. Perioperative myocardial injury and mortality after revision surgery for orthopaedic device-related infection. *Bone Joint J*. 2022;104-B:696–702.
 22. **Puelacher C***, Gualandro DM, Glarner N, Lurati Buse G, Lampart A, Bolliger D, Steiner LA, Grossenbacher M, Burri-Winkler K, Gerhard H, Kappos EA, Clerc O, Biner L, Zivzivadze Z, Kindler C, Hammerer-Lercher A, Filipovic M, Clauss M, Gürke L, Wolff T, Mujagic E, Bilici M, Cardozo FA, Osswald S, Caramelli B, Mueller C, Hidvegi R, Freese M, Arslani K, Weder S, Maiorano S, Rentsch K, Buser A, Mitrovic S, Strebel I, Seeberger E, Lardinois D, Schaeren S, Meister R, Pargger M. Long-term outcomes of perioperative myocardial infarction/injury after non-cardiac surgery. *Eur Heart J*. 2023;44:1690–1701.
 23. Gualandro DM, Puelacher C, Chew MS, Andersson H, Lurati Buse G, Glarner N, Mueller D, Cardozo FAM, Burri-Winkler K, Mork C, Wussler D, Shrestha S, Heidelberger I, Fält M, Hidvegi R, Bolliger D, Lampart A, Steiner LA, Schären S, Kindler C, Gürke L, Rikli D, Lardinois D, Osswald S, Buser A, Caramelli B, Mueller C. Acute heart failure after non-cardiac surgery: incidence, phenotypes, determinants and outcomes. *Eur J Heart Fail*. 2023;25.
 24. **Puelacher C**, Mills NL, Mueller C. How to use cardiac troponin in non-cardiac surgery. *Eur Hear J Acute Cardiovasc Care*. 2023;12:464–466.
 25. Meister R, **Puelacher C***, Glarner N, Gualandro DM, Andersson HA, Pargger M, Huré G,

- Virant G, Bolliger D, Lampart A, Steiner L, Hidvegi R, Lurati Buse G, Kindler C, Gürke L, Mujagic E, Schaeren S, Clauss M, Lardinois D, Hammerer-Lercher A, Chew M, Mueller C, Rentsch K, Seeberger E, Maiorano S, Weder S, de Lavallaz J du F, Arslani K, Buser A, Strebel I, Wolff T, Nestelberger T, Haaf P, Bilici M, Lopez PLA, Koechlin L. Prediction of perioperative myocardial infarction/injury in high-risk patients after noncardiac surgery. *Eur Hear journal Acute Cardiovasc care*. 2023;
26. Glarner N, **Puelacher C***, Gualandro DM, Lurati Buse G, Hidvegi R, Bolliger D, Lampart A, Burri K, Pargger M, Gerhard H, Weder S, Maiorano S, Meister R, Tschan C, Osswald S, Steiner LA, Guerke L, Kappos EA, Clauss M, Filipovic M, Arenja N, Mueller C. Guideline adherence to statin therapy and association with short-term and long-term cardiac complications following noncardiac surgery: A cohort study. *Eur J Anaesthesiol*. 2023;
27. Glarner N, **Puelacher C***, Gualandro DM, Pargger M, Huré G, Maiorano S, Strebel I, Fried S, Bolliger D, Steiner LA, Lampart A, Lurati Buse G, Mujagic E, Lardinois D, Kindler C, Guerke L, Schaeren S, Mueller A, Clauss M, Buser A, Hammerer-Lercher A, Mueller C, Mueller P, Burri K, Weder S, Skolozubova D, Horvat-Csoti S, Doebele N, Schaefer M, Heimbach B, Lopez-Ayala P, Seeberger E, Doyle N, Meissner K. Association of preoperative beta-blocker use and cardiac complications after major noncardiac surgery: a prospective cohort study. *Br J Anaesth*. 2024;132:1194–1203.
28. **Puelacher C**, Stuetzle A, Morgenstern M, Sendi P, Mueller C, Clauss M, et al. Adverse cardiac events associated with primary and revision arthroplasty. *Bone Joint J [Internet]*. <https://pubmed.ncbi.nlm.nih.gov/40746101/>
29. Glarner N, **Puelacher C***, Gualandro DM, Pargger M, Durak K, Bolliger D, et al. Perioperative myocardial infarction/injury after non-cardiac surgery: association between cardiologist evaluation and outcomes. *Eur Heart J*. 2026 Jan;in press.

Co-authorships

30. Stallone F, Twerenbold R, Wildi K, Reichlin T, Rubini Gimenez M, Haaf P, et al. Prevalence, characteristics and outcome of non-cardiac chest pain and elevated copeptin levels. *Heart*. 2014 Jun 26;100(21).
31. Gualandro DM, Puelacher C, Mueller C. High-sensitivity cardiac troponin in acute conditions. *Curr Opin Crit Care*. 2014 Oct;20(5):472–7.
32. Zürcher S, Honegger U, Wagener M, Lee G, Stallone F, Marxer T, et al. Delayed release of brain natriuretic peptide to identify myocardial ischaemia. *Eur J Clin Invest*. 2015 Nov;45(11):1175–83.
33. Jaeger C, Wildi K, Twerenbold R, Reichlin T, Rubini Gimenez M, Neuhaus JDJD, et al. One-hour rule-in and rule-out of acute myocardial infarction using high-sensitivity cardiac troponin I. *Am Heart J*. 2015 Jul;171(1):92-102.e5.
34. Twerenbold R, Wildi K, Jaeger C, Gimenez MR, Reiter M, Reichlin T, et al. Optimal Cutoff Levels of More Sensitive Cardiac Troponin Assays for the Early Diagnosis of Myocardial Infarction in Patients With Renal Dysfunction. *Circulation*. 2015 Jun 9;131(23):2041–50.
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43. Hillinger P, Twerenbold R, Jaeger C, Wildi K, Reichlin T, Rubini Gimenez M, et al. Optimizing Early Rule-Out Strategies for Acute Myocardial Infarction: Utility of 1-Hour Copeptin. *Clin Chem*. 2015 Dec;61(12):1466–74.
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Peer reviewed books and conference proceedings

None

Contribution to books

None

Oral contributions to international conferences

Speaker: GREAT 2014/2015/2016/2024, ESC 2015/2016/2021/2025, SGK 2015, Clinical Research Day Basel 2017, PCC 2018, IGM 2019/2023/2024/2025/2026, Heart-Failure Consensus IBK 2023/2024/2025, Kardiologiekongress IBK 2024/2025, ÖKG 2024

Posterpresenter: ESC 2014/2015/2016/2018/2019/2023, ACCA 2014, IGM 2015/2017/2020/2023, SGK 2015, Clinical Research Day 2016, PCC 2018

Outreach activities

Outreach events ScienceSlamClub Basel, organisation and participation in events from 2014-2017, president from 2016-2017
Science-Twitter-Account 2016-2022 (Terminated following X)

Other artefacts with documented use

None