

# **Mohammad Kassar, MD**

## Curriculum Vitae

### **1. Personal information**

First name: Mohammad  
Last name: Kassar  
Date of birth: 20.01.1990  
Home address: Mühlemattweg 4, 3425 Koppigen, Switzerland / Ellernstrasse 27, 32549  
Bad Oeynhausen, Germany  
Current position: Cardiology Consultant  
Work address: Department of Cardiology, HDZ NRW, Georgstrasse 11, 32545 Bad  
Oeynhausen, Germany  
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### **2. Education**

2024 Fellow of the ESC in research excellence (FESC)  
2023 PhD candidate at university of Bern  
2022 FMH title in cardiology  
2021 FMH specialization exam internal medicine  
2019 ESC Exam in TOE  
2019 ESC Exam in TTE  
2019 FMH specialization exam cardiology  
2014 – 2016 **Dissertation**  
Functional and structural aspects of WT and Heart-Actine  
(Oral exam 24.10.2017 with the mark "summae cum laudae")  
2011- 2015 Ruhr-University, Bochum, Germany 2nd State exam (GRD 1.5)  
2009 - 2011 Johannes-Gutenberg-University, Mainz, Germany, 1st State exam (GRD 1.5)  
2000 - 2009 High-School Graduation, Heinrich-Heine-Gymnasium (NC 1.1), Dortmund, Germany

### **3. Employment history**

09/2023 – present Fellow researcher, Department of Cardiology, Heart- and Diabetes-Center, Bad Oeynhausen,  
Germany  
05/2022–08/2023 Cardiology Consultant  
Department of Cardiology, Inselspital, Bern University Hospital, Bern, Switzerland  
03/2020 – 04/2022 Fellow in Internal medicine (Advisor: Prof. Drahomir Aujewsky, MD)  
06/2017 - 02/2020 Cardiology Fellow (Advisor: Prof. Stephan Windecker, MD)  
Department of Cardiology, Inselspital, Bern University Hospital, Bern, Switzerland  
06/2016–05/2017 Fellow in internal medicine  
01/2015–05/2016 MD Student (Cardiology)  
Advisor: Prof. Hans-Georg Mannherz, MD

#### **4. Institutional Responsibilities**

N/A

#### **5. Approved research projects**

N/A

#### **6. Supervision of junior researchers**

Name: Sonja Widmer

Project title: "Integrative echocardiographic assessment of patients with secondary mitral regurgitation undergoing transcatheter edge-to-edge repair".

Project stage: finished

Project start date: 07/2020. Completion date: 06/2021.

#### **7. Teaching activities**

Regular lectures on valvular heart diseases and cardiac imaging for cardiology fellows.

#### **8. Active memberships in scientific societies**

2020–present	German Cardiac Society
2020–present	Swiss Cardiac Society
2019–present	Swiss Cardiologists of Tomorrow (SCOT)
2018–present	European Heart Rhythm Association (EHRA)
2018–present	European Association of Cardiovascular Imaging (EACVI)
2018–present	Acute Cardiovascular Care Association (ACVC)
2018–present	European Association for Percutaneous Cardiovascular Interventions (EAPCI)
2018–present	European Association for Preventive Cardiology (EAPC)
2018–present	Heart Failure Association (HFA) of the ESC
2016–present	European Society of Cardiology (ESC)

#### **9. Prizes, awards, fellowships**

2014	RUB scholarship RUBfonds for excellence
2023	Research Grant from the Swiss Heart Foundation (W. and L. Rutishauser Grant)
2024	Research Grant from the German Heart Foundation

#### **10. Personal skills**

Languages: Arabic (native), German (native) English (Level C1), Latin,

Digital competences: Advanced statistics analysis, SPSS, STATA, R, XLSTAT

Professional user of Microsoft Office applications.

#### **13. Career breaks**

N/A.

### **Research Output List**

Personal contributions to each of the publications are provided as a superscript after the applicant's name (e.g. Kassar M<sup>(B,C,E)</sup>), with the following indicators:

- A = Design and conception of the study/ or the review article as appropriate
- B = Patient recruitment, if applicable
- C = Data collection, if applicable
- D = Statistical analysis, if applicable

E = Presentation of figures and/or tables.

F = Drafting of the manuscript

\* = (Co)First authorship

\*\*= (Co) Last authorship

## 1. Publications in peer-reviewed scientific journals

### 1.1 Original publications in peer-reviewed scientific journals

1. Doldi P, Stolz L, Orban M, Karam N, Praz F, Kalbacher D, Lubos E, Braun D, Adamo M, Giannini C, Melica B, Nábauer M, Higuchi S, Wild M, Neuss M, Butter C, **Kassar M**<sup>(A,C)</sup>, Petrescu A, Pfister R, Iliadis C, Unterhuber M, Thiele H, Baldus S, von Bardeleben RS, Schofer N, Hagl C, Petronio AS, Massberg S, Windecker S, Lurz P, Metra M, Hausleiter J. Transcatheter Mitral Valve Repair in Patients With Atrial Functional Mitral Regurgitation. *JACC Cardiovasc Imaging*. 2022 Jul 8;S1936-878X(22)00343-6. doi: 10.1016/j.jcmg.2022.05.009. PMID: 35842361
2. Higuchi S, Orban M, Adamo M, Giannini C, Melica B, Karam N, Praz F, Kalbacher D, Koell B, Stolz L, Braun D, Nábauer M, Wild M, Doldi P, Neuss M, Butter C, **Kassar M**<sup>(A,C)</sup>, Ruf T, Petrescu A, Ludwig S, Pfister R, Iliadis C, Unterhuber M, Sampaio F, Ferreira D, Thiele H, Baldus S, von Bardeleben RS, Massberg S, Windecker S, Lurz P, Petronio AS, Lindenfeld J, Abraham WT, Metra M, Hausleiter J; EuroSMR investigators. Guideline-directed medical treatment in patients undergoing transcatheter edge-to-edge repair for secondary mitral regurgitation. *Eur J Heart Fail*. 2022 Jul 6. doi: 10.1002/ejhf.2613. Online ahead of print. PMID: 35791663
3. Koell B, Orban M, Weimann J, **Kassar M**<sup>(A,C,E)</sup>, Karam N, Neuss M, Petrescu A, Iliadis C, Unterhuber M, Adamo M, Giannini C, Melica B, Ludwig S, Massberg S, Praz F, Pfister R, Thiele H, Stephan von Bardeleben R, Baldus S, Butter C, Lurz P, Windecker S, Metra M, Petronio AS, Hausleiter J, Lubos E, Kalbacher D; EuroSMR Investigators. Outcomes Stratified by Adapted Inclusion Criteria After Mitral Edge-to-Edge Repair. *J Am Coll Cardiol*. 2021 Dec 14;78(24):2408-2421. doi: 10.1016/j.jacc.2021.10.011. PMID: 34886961
4. **Kassar M**<sup>(A,B,C,D,E,F,\*)</sup>, Praz F, Hunziker L, Pilgrim T, Windecker S, Seiler C, Brugger N. Anatomical and Technical Predictors of Three-Dimensional Mitral Valve Area Reduction After Transcatheter Edge-To-Edge Repair. *J Am Soc Echocardiogr*. 2022 Jan;35(1):96-104. doi: 10.1016/j.echo.2021.08.021. Epub 2021 Oct 11. PMID: 34506920
5. Okuno T, Praz F, **Kassar M**<sup>(A,C,E,F,\*)</sup>, Biaggi P, Mihajl M, Külling M, Widmer S, Pilgrim T, Grünenfelder J, Kadner A, Corti R, Windecker S, Wenaweser P, Reineke D. Surgical versus transcatheter repair for secondary mitral regurgitation: A propensity score-matched cohorts comparison. *J Thorac Cardiovasc Surg*. 2021 Jul 28;S0022-5223(21)01128-4. doi: 10.1016/j.jtcvs.2021.07.029. Online ahead of print. PMID: 34446288
6. Brugger N, **Kassar M**<sup>(A,B,C,D,F,\*)</sup>, Siontis GCM, Widmer S, Okuno T, Winkel MG, Corpataux N, Gräni C, Büllsfeld L, Hunziker L, Pilgrim T, Windecker S, Praz F. Integrative echocardiographic assessment of patients with secondary mitral regurgitation undergoing transcatheter edge-to-edge repair. *Catheter Cardiovasc Interv*. 2021 Dec 1;98(7):1404-1412. doi: 10.1002/ccd.29916. Epub 2021 Aug 18. PMID: 34406713
7. Higuchi S, Orban M, Stolz L, Karam N, Praz F, Kalbacher D, Ludwig S, Braun D, Nábauer M, Wild MG, Neuss M, Butter C, **Kassar M**<sup>(A,B,C)</sup>, Petrescu A, Pfister R, Iliadis C, Unterhuber M, Park SD, Thiele H, Baldus S, von Bardeleben S, Schofer N, Massberg S, Windecker S, Lurz P, Hausleiter J. Impact of Residual Mitral Regurgitation on Survival After Transcatheter Edge-to-Edge Repair for Secondary Mitral Regurgitation. *JACC Cardiovasc Interv*. 2021 Jun 14;14(11):1243-1253. doi: 10.1016/j.jcin.2021.03.050. Epub 2021 May 12. PMID: 33992551
8. Park SD, Orban M, Karam N, Lubos E, Kalbacher D, Braun D, Stolz L, Neuss M, Butter C, Praz F, **Kassar M**<sup>(B,C)</sup>, Petrescu A, Pfister R, Iliadis C, Unterhuber M, Lurz P, Thiele H, Baldus S, von Bardeleben S, Blankenberg S, Massberg S, Windecker S, Hausleiter J; EuroSMR Investigators. Sex-Related Clinical Characteristics and Outcomes of Patients Undergoing Transcatheter Edge-to-Edge Repair for Secondary Mitral Regurgitation. *JACC Cardiovasc Interv*. 2021 Apr 26;14(8):819-827. doi: 10.1016/j.jcin.2020.12.042. Epub 2021 Mar 31. PMID: 33812815
9. Karam N, Orban M, Kalbacher D, Butter C, Praz F, Lubos E, Bannehr M, **Kassar M**<sup>(A,C)</sup>, Petrescu A, Iliadis C, Unterhuber M, Asselin A, Thiele H, Pfister R, Windecker S, Lurz P, von Bardeleben S, Hausleiter J; EuroSMR investigators. Impact of effective regurgitant orifice area on outcome of secondary mitral regurgitation transcatheter repair. *Clin Res Cardiol*. 2021 May;110(5):732-739. doi: 10.1007/s00392-021-01807-0. Epub 2021 Mar 4. PMID: 33661372
10. Karam N, Stolz L, Orban M, Deseive S, Praz F, Kalbacher D, Westermann D, Braun D, Nábauer M, Neuss M, Butter C, **Kassar M**<sup>(A,B,C)</sup>, Petrescu A, Pfister R, Iliadis C, Unterhuber M, Park SD, Thiele H, Baldus S, Stephan von Bardeleben R, Blankenberg S, Massberg S, Windecker S, Lurz P, Hausleiter J. Impact of Right Ventricular Dysfunction on Outcomes After Transcatheter Edge-to-Edge Repair for Secondary Mitral Regurgitation. *JACC Cardiovasc Imaging*. 2021 Apr;14(4):768-778. doi: 10.1016/j.jcmg.2020.12.015. PMID: 33582067
11. Orban M, Karam N, Lubos E, Kalbacher D, Braun D, Deseive S, Neuss M, Butter C, Praz F, **Kassar M**<sup>(C)</sup>, Petrescu A, Pfister R, Iliadis C, Unterhuber M, Lurz P, Thiele H, Baldus S, Stephan von Bardeleben R, Blankenberg S, Massberg S, Windecker S, Hausleiter J; EuroSMR Investigators. Impact of Proportionality of Secondary Mitral Regurgitation on Outcome After Transcatheter Mitral Valve Repair. *JACC Cardiovasc Imaging*. doi: 10.1016/j.jcmg.2020.05.042. PMID: 32861652
12. Corpataux N, Winkel MG, **Kassar M**<sup>(C,E)</sup>, Brugger N, Windecker S, Praz F. The PASCAL Device-Early Experience with a Leaflet Approximation Device: What Are the Benefits/Limitations Compared with the MitraClip? *Curr Cardiol Rep*. 2020 Jun 27;22(8):74. doi: 10.1007/s11886-020-01305-1. PMID: 32594261.
13. Okuno T, Asami M, Khan F, Praz F, Heg D, Lanz J, **Kassar M**<sup>(C,E)</sup>, Khalique OK, Gräni C, Brugger N, Räber L, Stortecky S, Valgimigli M, Windecker S, Pilgrim T. Does isolated mitral annular calcification in the absence of mitral

- valve disease affect clinical outcomes after transcatheter aortic valve replacement? *Eur Heart J Cardiovasc Imaging*. doi: 10.1093/ehjci/jez208. PMID: 31408104
14. Stolz L, Doldi D, Karam N, Lubos E, Kalbacher D, Braun D, Deseive S, Neuss M, Butter C, Praz F, **Kassar M**<sup>(C)</sup>, Hausleiter J; EuroSMR Investigators Staging Heart Failure Patients With Secondary Mitral Regurgitation Undergoing Transcatheter Edge-to-Edge Repair, *JACC: Cardiovascular Interventions* doi: 10.1016/j.jcin.2022.10.032
  15. Stolz L, Ludwig T, Karam N, Kalbacher D, Braun D, Deseive S, Neuss M, Butter C, Praz F, **Kassar M**<sup>(B,C)</sup>, Hausleiter J; EuroSMR Investigators, Invasive Right Ventricular to Pulmonary Artery Coupling in Patients Undergoing Transcatheter Edge-to-Edge Tricuspid Valve Repair, *JACC: Cardiovascular Imaging*, doi: 10.1016/j.jcmg.2022.10.004
  16. Doldi M, Stolz L, Ludwig T, Karam N, Kalbacher D, Braun D, Deseive S, Neuss M, Butter C, Praz F, **Kassar M**<sup>(B,C)</sup>, Hausleiter J; EuroSMR Investigators, Transcatheter Mitral Valve Repair in Patients With Atrial Functional Mitral Regurgitation, *JACC: Cardiovascular imaging*, doi: 10.1016/j.jcmg.2022.05.009
  17. Fortmeier V, Lachmann M, Körber M, Unterhuber M, Schöber A, Stolz L, Stocker T, **Kassar M**<sup>(B,C)</sup>, Gerçek M, Rudolph T, Praz F, Windecker S, Pfister R, Baldus S, Laugwitz K, Hausleiter J, Lurz P, Rudolph V; Sex-Related Differences in Clinical Characteristics and Outcome Prediction Among Patients Undergoing Transcatheter Tricuspid Valve Intervention, *JACC: Cardiovascular Interventions*, doi: 10.1016/j.jcin.2023.01.378.
  18. Doldi P, Higuchi S, Orban M, Adamo M, Giannini C, Melica B, Karam N, Praz F, Kalbacher D, Koell B, Stolz L, Braun D, Nábauer M, Wild M, Doldi P, Neuss M, Butter C, **Kassar M**<sup>(A,C)</sup>, Ruf T, Petrescu A, Ludwig S, Pfister R, Iliadis C, Unterhuber M, Sampaio F, Ferreira D, Thiele H, Baldus S, von Bardeleben RS, Massberg S, Windecker S, Lurz P, Petronio AS, Lindenfeld J, Abraham WT, Metra M, Hausleiter J; Staging heart failure patients with secondary mitral regurgitation undergoing transcatheter edge-to-edge repair, *JACC: Cardiovascular Interventions*, doi: 10.1016/j.jcin.2022.10.032.
  19. Stolz L, Ludwig T, Karam N, Kalbacher D, Braun D, Deseive S, Neuss M, Butter C, Praz F, **Kassar M**<sup>(B,C)</sup>, Hausleiter J; EuroSMR Investigators; Staging Heart Failure Patients With Secondary Mitral Regurgitation Undergoing Transcatheter Edge-to-Edge Repair, *JACC: Cardiovascular Interventions*, doi: 10.1016/j.jcin.2022.10.032.
  20. Stolz L, Ludwig T, Karam N, Kalbacher D, Praz F, Lurz P, Omran H, Iliadis C, Braun D, Deseive S, Neuss M, Butter C, Praz F, **Kassar M**<sup>(B,C)</sup>, Rudolph V, Hausleiter J; Invasive Right Ventricular to Pulmonary Artery Coupling in Patients Undergoing Transcatheter Edge-to-Edge Tricuspid Valve Repair, *JACC: Cardiovascular Imaging*, doi: 10.1016/j.jcmg.2022.10.004.
  21. **Kassar M**<sup>(A,B,C,D,E,F,\* )</sup>, Ovsenik A, Brugger N, Noti F, Bartkowiak J, Madhkour M, Asatryan B, Baumgartner T, Gräni C, Praz F; Infectious Endocarditis of a Heterotopic Caval Valved Stent, *JACC: Case Reports*, doi: 10.1016/j.jaccas.2023.101761.
  22. Fortmeier V, Lachmann M, Körber M, Unterhuber M, Schöber A, Stolz L, Stocker T, **Kassar M**<sup>(B,C)</sup>, Ochs L, Omran H, Hesse A, Friedrichs K, Gerçek M, Shinsuke Y, Joner M, Rudolph T, Praz F, Windecker S, Pfister R, Baldus S, Laugwitz K, Hausleiter J, Lurz P, Rudolph V; Epiphenomenon or Prognostically Relevant Interventional Target? A Novel Proportionality Framework for Severe Tricuspid Regurgitation, *Journal of the American Heart Association*, doi: 10.1161/JAHA.122.028737
  23. Fortmeier V, Lachmann M, Körber M, Unterhuber M, Schöber R, Stolz L, Sticker T, **Kassar M**<sup>(A,C)</sup>, Ochs L, Gerçek M, Friedrichs KP, Yuasa S, Rudolph TK, Joner M, Pfister R, Baldus S, Praz F, Windecker S, Hausleiter J, Lurz P, Rudolph V; Sex-Related Differences in Clinical Characteristics and Outcome Prediction Among Patients Undergoing Transcatheter Tricuspid Valve Intervention, *JACC: Cardiovascular Interventions*, doi: 10.1016/j.jcin.2023.01.378
  24. Blaser I, Papadis A, Kassar M<sup>(B,C,F)</sup>, et al. Aortic Valve Planimetry in Aortic Stenosis Quantification: Reliability of Three-Dimensional-Multiplane Reconstruction and Comparison With Established Methods. *Am J Cardiol* 2023;211:287-290. DOI: 10.1016/j.amjcard.2023.11.018.
  25. Buffle E, Papadis A, Blaser I, **Kassar M**<sup>(B,C,F)</sup> et al. In-vivo validation of a nomogram with isostiffness-lines for the assessment of aortic stenosis severity. *European Heart Journal* 2023;44(Supplement\_2). DOI: 10.1093/eurheartj/ehad655.033.
  26. Dobner S, Stortecky S, Wiedemann S, **Kassar M**<sup>(B,C,F)</sup> et al. Effect of timely availability of TTR-stabilizing therapy on diagnosis, treatment initiation, and cardiovascular outcomes in transthyretin amyloid cardiomyopathy. *European Heart Journal* 2023;44(Supplement\_2). DOI: 10.1093/eurheartj/ehad655.885
  27. Fortmeier V, Lachmann M, Stolz L, **Kassar M**<sup>(B,C)</sup> et al. "Artificial Intelligence-Enabled Assessment of Right Ventricular to Pulmonary Artery Coupling in Patients Undergoing Transcatheter Tricuspid Valve Intervention". *Eur Heart J Cardiovasc Imaging* 2023. DOI: 10.1093/ehjci/jead324
  28. Stolz L, Doldi PM, Kresoja KP, **Kassar M**<sup>(B,C)</sup> et al. Applying the TRILUMINATE Eligibility Criteria to Real-World Patients Receiving Tricuspid Valve Transcatheter Edge-to-Edge Repair. *JACC Cardiovasc Interv* 2023. DOI: 10.1016/j.jcin.2023.11.014.
  29. Stolz L, Kresoja KP, ..., **Kassar M**<sup>(B,C)</sup> et al. Residual tricuspid regurgitation after tricuspid transcatheter edge-to-edge repair: Insights into the EuroTR registry, *European Journal of Heart Failure* 2024, DOI: 10.1002/ejhf.3274
  30. Fortmeier V, Rommel KP, ..., **Kassar M**<sup>(B,C)</sup> et al. New Diagnostic Criteria for Pulmonary Hypertension, *JACC: Cardiovascular Interventions* DOI: 10.1016/j.jcin.2024.01.314
  31. Rommel KP, Bonnet B, **Kassar M**<sup>(B,C)</sup> et al, Congestion patterns in severe tricuspid regurgitation and transcatheter treatment: Insights from a multicentre registry, *European Journal of Heart Failure* 2024, DOI: 10.1002/ejhf.3235
  32. Doldi M., Stolz L, **Kassar M**<sup>(B,C)</sup>, et al, Paradox of disproportionate atrial functional mitral regurgitation and survival after transcatheter edge-to-edge repair ESC Heart Fail 2024, DOI: 10.1002/ehf2.14789
  33. Galea R, Bini T, **Kassar M**<sup>(B,C,D)</sup>, et al. Pericardial Effusion After Left Atrial Appendage Closure, *JACC Cardiovascular Interventions*, DOI: 10.1016/j.jcin.2024.01.310

34. Stolz L, Kresoja KP, **Kassar M**<sup>(B,C)</sup>, et al. Residual tricuspid regurgitation after tricuspid transcatheter edge-to-edge repair: Insights into the EuroTR registry, *European Journal of Heart Failure* 2024, DOI: 10.1002/ejhf.3274
35. Bartkowiak J, **Kassar M**<sup>(B,C,D,E\*)</sup>, Brilisauer S, et al, Findings from transoesophageal echocardiographic follow-up after mitral transcatheter edge-to-edge repair, *EuroIntervention* 2024, DOI: 10.4244/EIJ-D-24-00297
36. Bartkowiak J, **Kassar M**<sup>(A,C,E)</sup>, Stolz L, et al. Computed tomography anatomic predictors of outcomes in patients undergoing tricuspid transcatheter edge-to-edge repair. *Journal of Cardiovascular Computed Tomography*. 2024 Feb. doi: 10.1016/j.jcct.2024.02.001
37. Doldi P, Stolz L, **Kassar M**<sup>(A,C)</sup>, et al. Paradox of disproportionate atrial functional mitral regurgitation and survival after transcatheter edge-to-edge repair. *ESC Heart Failure*. 2024 Apr. doi: 10.1002/ehf2.14321
38. Stolz L, Wild M, **Kassar M**<sup>(A,C)</sup>, et al. Residual tricuspid regurgitation after tricuspid transcatheter edge-to-edge repair: Insights into the EuroTR registry. *European Journal of Heart Failure*. 2024 May. doi: 10.1002/ejhf.14456
39. Kirchner M, Stolz L, **Kassar M**<sup>(A,C)</sup>, et al. Calculation of intraprocedural hemodynamics with computational functional dynamic in mitral valve edge-to-edge repair. *European Heart Journal*. 2024 Oct. doi: 10.1093/eurheartj/ehae001
40. Wild M, Stolz L, **Kassar M**<sup>(A,B)</sup>, et al. Transcatheter valve repair for tricuspid regurgitation: 1-year results from a large European real-world registry. *JACC*. 2024 Oct. doi: 10.1016/j.jacc.2024.10.005
41. Stolz L, Wild M, **Kassar M**<sup>(A,C)</sup>, et al. Impact of pulmonary hypertension on outcomes after transcatheter tricuspid valve edge-to-edge repair. *JACC Cardiovascular Interventions*. 2024 Oct. doi: 10.1016/j.jcin.2024.10.002
42. Stocker T, Weckbach T, **Kassar M**<sup>(A,C)</sup>, et al. Long-term outcomes after edge-to-edge repair of secondary mitral regurgitation. *JACC Cardiovascular Interventions*. 2024 Nov. doi: 10.1016/j.jcin.2024.11.001
43. Kresoja KP, Weckbach T, **Kassar M**<sup>(A,B,C)</sup>, et al. Temporal trends in characteristics of patients undergoing transcatheter tricuspid edge-to-edge repair for tricuspid regurgitation. *EuroIntervention*. 2024 Nov. doi: 10.4244/EIJ-D-24-00622
44. Weckbach T, Rudolph V, **Kassar M**<sup>(A,C,D)</sup>, et al. Relevance of residual tricuspid regurgitation for right ventricular reverse remodeling after tricuspid valve intervention in patients with severe tricuspid regurgitation and right-sided heart failure. *European Journal of Heart Failure*. 2024 Nov. doi: 10.1002/ejhf.14567
45. **Kassar M**<sup>(A,B,C,D,E,F,\*)</sup>, Rudolph V, Gerçek M, et al. The prognostic value of the Dandel's index in patients undergoing tricuspid transcatheter edge-to-edge repair. *European Journal of Heart Failure*. 2024 Dec. doi: 10.1002/ejhf.14678
46. **Kassar M**<sup>(A,B,C,D,E,F,\*)</sup>, Brugger N, Praz F, et al. Hyperacute effects of mitral transcatheter edge-to-edge repair on left ventricular volumes and functions. *The American Journal of Cardiology*. 2025 Jan. doi: 10.1016/j.amjcard.2025.01.0037
47. Fortmeier V, Rudolph V, **Kassar M**<sup>(A,B,C,D)</sup>, et al. Simplified outcome prediction in patients undergoing transcatheter tricuspid valve intervention by survival tree-based modelling. *JACC Advances*. 2025 Jan. doi: 10.1016/j.jaccadv.2025.01.002
48. Rudolph V, Gerçek M, **Kassar M**<sup>(A,C,E,\*\*)</sup>, et al. The GLIDE Score for prediction of mild tricuspid regurgitation following tricuspid transcatheter edge-to-edge repair. *JACC Advances*. 2025 Jan. doi: 10.1016/j.jaccadv.2025.01.005

## 1.2 Reviews and perspectives published in peer-reviewed scientific journals

1. Praz F, Brugger N, **Kassar M**<sup>(E,F)</sup>, Hunziker L, Moschovitis A, Stortecky S, Reineke D, Pilgrim T, Windecker S. Interventional treatment of mitral valve regurgitation: an alternative to surgery? *Swiss Med Wkly*. 2019 Mar 10;149:w20023. doi: 10.4414/smw.2019.20023. eCollection 2019 Feb 25. PMID: 30852836
2. **Kassar M**<sup>(A,C,E,F,\*)</sup>, Khaliq OK, Pilgrim T, Reineke D, Carrel T, Windecker S, George I, Praz F. Surgical Transatrial Implantation of Transcatheter Heart Valves in Severe Mitral Annular Calcification. *Interv Cardiol Clin*. 2019 Jul;8(3):313-319. doi: 10.1016/j.iccl.2019.02.006. Epub 2019 Apr 8. PMID: 31078187 Review.

## 2. Contributions to conferences (oral presentation or poster) (only first-author contributions are shown)

1. **Kassar M**<sup>(A,B,C,D,F)</sup>, Anatomical predictors of mitral valve area reduction after the implantation of one MitraClip: the spot matter, *European Heart Journal. Acute Cardiovascular Care*, Volume 10, Issue Supplement\_1, April 2021, zuab020.002, <https://doi.org/10.1093/ehjacc/zuab020.002>
2. **Kassar M**<sup>(A,B,C,D,F)</sup>, Impact of the implantation of one MitraClip on the mitral valve anatomy: NTR vs. XTR, *European Heart Journal. Acute Cardiovascular Care*, Volume 10, Issue Supplement\_1, April 2021, zuab020.003, <https://doi.org/10.1093/ehjacc/zuab020.003>
3. **Kassar M**<sup>(A,B,C,D,F)</sup>, N Brugger, C Seiler, S Windecker, Doppler echocardiographic predictors of low mitral valve area after implantation of one MitraClip: time for a paradigm shift?, *European Heart Journal*, Volume 41, Issue Supplement\_2, November 2020, ehaa946.1974, <https://doi.org/10.1093/ehjci/ehaa946.1974>
4. **Kassar M**<sup>(A,B,C,D,F)</sup>, R Madhkour, F Praz, L Hunziker, S Windecker, N Brugger Acute impact of transcatheter edge-to-edge repair for mitral regurgitation on left ventricular function, *European Heart Journal*, Volume 43, Issue Supplement\_2, October 2022, ehac544.094, <https://doi.org/10.1093/eurheartj/ehac544.094>

## 3. Submitted but not yet accepted/published publications

1. **Kassar M**<sup>(A,B,C,D,E,F,\*)</sup>, Praz F, Hunziker L, Pilgrim T, Windecker S, Seiler C, Brugger N, Doppler echocardiographic predictors of low mitral valve area after TMVR: new insights (submitted in *JACC Cardiovascular imaging*)

2. **Kassar M**<sup>(A,B,C,D,E,F,\*)</sup>, Praz F, et al, Concomitant M-TEER in patients with moderate MR undergoing T-TEER for severe TR (submitted in Circulation)

#### 4. Unpublished work

A handwritten signature in blue ink, consisting of a stylized 'S' and 'F' followed by the name 'Kassar'.

Bad Oeynhausen, 13 February 2025