

## PD Dr. med. Dominique Bettex



### **Leitende Ärztin**

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### **Arbeitsort**

- Kardioanästhesie (F-OP, IPS HOER F, KISPI)

### **Zusatzfunktionen**

- Leiterin der Herz- und Gefäss-Anästhesie und Intensivmedizin
- Konsiliarärztin KISPI - Kinderherzanästhesie
- Piketdienst Kinderchirurgie, UniversitätsSpital Zürich
- Visusprojekt-Verantwortliche Herzanästhesie

### **Curriculum**

- 1984 Staatsexamen Universität Lausanne
- 1985 FMGEMS New York
- 1992 FMH Anästhesie
- 1992 FMH Intensivmedizin
- 1992 Diploma of the European Academy of Anesthesiology and Intensive Care Medicine
- 1992 Promotion - Thesis: Mitralklappenprolaps
- 2005 Habilitation, Universität Zürich
- 2007 European diploma in adult transoesophageal echocardiography
- 1985-1986 Herzchirurgie, Universitätsspital Lausanne
- 1986-1987 Anästhesie, Universitätsspital Lausanne
- 1987-1988 Innere medizin, Regionalsspital Payerne
- 1988-1989 Anästhesie, Universitätsspital Lausanne
- 1989-1990 Intensivmedizin nach Herzchirurgie, Mount Sinai Hospital, New York
- 1990-1991 Anästhesie, Mount Sinai Hospital, New York
- 1991-1992 Anästhesie, Universitätsspital Lausanne
- 1992 Sept.-Dez. Echokardiographie-Kardiologie, Universitätsspital Lausanne
- 1993-1997 Oberärztin Anästhesie, Universitätsspital Lausanne
- 1998-2006 Oberärztin Herz- und Gefässanästhesie, UniversitätsSpital Zürich
- 2004-2006 Oberärztin Kinderherzanästhesie, Kindersspital Zürich

- 2006 - August 2009 Leitende Ärztin Herz- und Gefässanästhesie, Universitätsspital Zürich, und Kinderherzanästhesie Kinderspital Zürich
- Seit September 2009: Leiterin der Herz- und Gefässanästhesie, UniversitätsSpital Zürich und Konsiliarärztin Kinderherzanästhesie Kinderspital Zürich

#### **Spezialinteressen klinisch**

- Transoesophageale Echokardiographie
- Herzanästhesie für Kinder und Erwachsene
- Herzanästhesie für kongenitale Herzvitien
- Intensivmedizin

#### **Spezialinteressen wissenschaftlich**

- Transoesophagiale Echokardiographie
- Präkonditioning
- Myokardialer Schutz

## Publications before Venia Legendi

### Original articles

1. Mueller XM, **Bettex D**, Tevaearai H, von Segesser LK. Acute effects of transmyocardial laser revascularization on left-ventricular function: an haemodynamic and echocardiographic study. *Thorac Cardiovasc Surg* 1998;**46**(3):126-129.  
(Impact Factor: 0.641)
2. Mueller XM, Tevaearai H, Genton CY, **Bettex D**, von Segesser LK. Transmyocardial laser revascularisation in acutely ischaemic myocardium. *Eur J Cardiothorac Surg* 1998;**13**(2):170-175.  
(Impact Factor: 0.759)
3. Mueller XM, Tevaearai HH, Genton CY, **Bettex D**, von Segesser LK. Laser transmyocardial revascularization – a potential risk in acute situation ? *Swiss Surg* 2000; **6**(2):65-68.
4. **Bettex DA**, Lachat M, Pfammatter T, Schmidlin D, Turina MI, Schmid ER. Safety of local anaesthesia for endovascular abdominal aortic-stent graft insertion: a comparison of local, epidural and general anaesthesia. *Eur J Vasc Endovasc Surg* 2001;**21**(2):179-184.  
(Impact factor: 1.484)
5. Schmidlin D, **Bettex D**, Bernard E, Germann R, Tornic M, Jenni R, Schmid ER. Transesophageal echocardiography in cardiac and vascular surgery: implications and observer variability. *Br J Anaesthesia* 2001;**86**(6):497-505.  
(Impact factor: 2.250)
6. Vogt PR, Akintürk H, **Bettex DA**, Schmidlin D, Lachat ML, Turina MI. Modification of surgical aorto-atrial shunts for inaccessible bleeding in aortic surgery. *Thorac Cardiovasc Surg* 2001;**49**(4):240-242.  
(Impact factor: 0.995)
7. **Bettex DA**, Schmidlin D, Chassot PG, Schmid ER. Intrathecal sufentanil-morphine shortens the duration of intubation and improves analgesia in fast-track cardiac surgery. *Can J Anesth* 2002; **49**: 711-717.  
(Impact factor: 1.014)
8. Tavakoli R, Weber A, Brunner HP, **Bettex DA**, Vogt P, Pretre R, Jenni R, Turina M. Results of surgery for irreversible moderate to severe mitral valve regurgitation secondary to myocardial infarction. *Eur J Cardiothorac Surg* 2002;**21**(5):818-824.  
(Impact factor: 1.451)
9. Lachat ML, Pfammatter T, Witzke HJ, **Bettex D**, Kunzli A, Wolfensberger U, Turina MI. Endovascular repair with bifurcated stent-grafts under local anaesthesia to improve outcome of ruptured aortoiliac aneurysms. *Eur J Vasc Endovasc Surg* 2002 Jun;**23**(6):528-536.  
(Impact factor: 1.545)
10. Tavakoli R, **Bettex DA**, Weber A, Brunner HP, Genoni M, Pretre R, Jenni R, Turina M. Repair of postinfarction dyskinetic LV aneurysm with either linear or patch technique. *Eur J Cardiothorac Surg* 2002;**22**(1):129-134.  
(Impact factor: 1.451)
11. Lachat M, Witzke H, Pfammatter T, **Bettex D**, Slankamenac K, Wolfensberger U, Turina M. Aortic stent-grafting: successful introduction into the combined procedure for coronary artery bypass grafting and aortic aneurysm repair. *Eur J Cardiothorac Surg* 2003;**23**(4):532-536.  
(Impact factor: 1.465)
12. **Bettex DA**, Schmidlin D, Bernath MA, Pretre R, Hurni M, Jenni R, Chassot PG, Schmid ER. Intraoperative transesophageal echocardiography in pediatric congenital cardiac surgery: a two-center observational study. *Anesth Analg* 2003; **97**(5):1275-1282.  
(Impact factor: 2.21)

13. Pretre R, Kadner A, Dave H, **Bettex D**, Turina MI. Overlapping annuloplasty of the mitral valve in children. *Ann Thorac Surg* 2004;**77**(5):1857-1859.  
(Impact factor: 2.041)

14. Pretre R, Dave H, Kadner A, **Bettex D**, Turina MI. Direct closure of the septum primum in atrioventricular canal defects. *J Thorac Cardiovasc Surg* 2004;**127**(6):1678-1681.  
(Impact factor: 3.319)

15. Kadner A, Dave H, **Bettex D**, Valsangiacomo-Buechel E, Turina MI, Pretre R. Anatomic reconstruction of recurrent aortic arch obstruction in children. *Eur J Cardiothorac Surg* 2004;**26**(1):60-65.  
(Impact factor: 1.465)

16. Kadner A, Dave H, Dodge-Kathami A, **Bettex D**, Valsangiacomo-Buechel E, Turina MI, Pretre R. Inferior partial sternotomy for surgical closure of isolated ventricular septal defects in children. *Heart Surg Forum* 2004;**7**:E467-70.  
(Impact factor: 0.897)

17. **Bettex DA**, Hinselmann V, Hellermann JP, Jenni R, Schmid ER. Transoesophageal echocardiography is unreliable for cardiac output assessment after cardiac surgery compared with thermodilution. *Anaesthesia* 2004;**59**:1184-1192.  
(Impact factor: 2.041)

18. Dave HH, Kadner A, Berger F, Seifert B, Dodge-Khatami A, **Bettex D**, Pretre R. Early results of the bovine jugular vein graft used for reconstruction of the right ventricular outflow tract. *Ann Thorac Surg* 2005; **79**:618-24.  
(Impact factor: 2.041)

19. **Bettex DA**, Pretre R, Jenni R, Schmid ER. Cost-effectiveness of routine transesophageal echocardiography in pediatric cardiac surgery: a ten-year experience. *Anesth Analg* 2005;**100**:1271-5.  
(Impact factor: 2.21)

20. Alkadhi H, **Bettex DA**, Wildermuth S, **Baumert B**, **Plass A**, **Grunenfelder J**, **Desbiolles LM**, **Marincek B**, **Boehm Th**. Dynamic cine-mode imaging of the mitral valve with 16-channel MDCT. A feasibility study. *Am J Roentgenol* 2005; **185**:636-46.  
(Impact factor: 2.474)

### Case reports

1. Vogt PR, Schmidlin D, Bernard E, **Bettex D**, Germann R. Inhaled nitric oxide for pulmonary hemorrhage due to acute pulmonary vein trauma. *Thorac Cardiovasc Surg* 2001;**49**(1):49-50. (Impact factor: 0.995)

2. Wintermark M, Delabays A, **Bettex D**, Schnyder P. Blunt trauma of the heart: CT pattern of atrial appendage ruptures. About 2 cases. *Eur Radiol* 2001;**11**(11):113-116.  
(Impact factor: 1.321)

3. **Bettex DA**, Vogt PR, Jenni R, Schmid ER. Unusual intraoperative impact of transesophageal echocardiography for the correction of a persistent pseudoaneurysm perfused from the left ventricular outflow tract. *J Cardiothorac Vasc Anesth* 2001; **16**(1):80-82.  
(Impact factor: 0.772)

### Books

1. **Bettex D**, Chassot PG. Echocardiographie transoesophagienne périopératoire. Masson ed, Paris, 1997.

2. **Bettex D**, Jenni R. Normal thoracic anatomical structures: a guide for intraoperative and intensive care transesophageal echocardiography. Abbott AG, Switzerland, 1999.

### Book Chapters

1. Wintermark M, Wicky S, **Bettex D**, Schnyder P, Theumann N. Trauma of the mediastinum. In: Schnyder P, Wintermark M, eds. Radiology of blunt trauma of the chest. Medical Radiology, Springer, New York, Berlin, Heidelberg 2000, pp 71-134
2. Chassot PG, **Bettex D**. Perioperative transoesophageal echocardiography in adult congenital heart disease. In: Polaert J, Skarvan K, eds. Transoesophageal echocardiography in anaesthesia. BMJ Books, London, 2nd ed, 2004, pp 221-247.

## Publications after Venia Legendi

1. Hechelhammer L, Lachat M, Wildermuth S, **Bettex D**, Mayer D, Pfammatter T. Midterm outcome of endovascular repair of ruptured abdominal aortic aneurysms. *J Vasc Surg* 2005;**41**:752-7.  
(Impact factor: 3.507)
2. Pretre R, Kadner A, Dave H, Dodge-Kathami A, **Bettex D**, Berger F. Right axillary incision: a cosmetically superior approach to repair a wide range of congenital cardiac defects. *J Thorac Cardiovasc Surg* 2005, **130**:277-81.  
(Impact factor: 3.319)
3. Baulig W, Bernard EO, **Bettex D**, Schmidlin D, Schmid ER. Cardiac output measurement by pulse dye densitometry in cardiac surgery. *Anaesthesia* 2005;**60**:968-73.  
(Impact factor: 2.041)
4. Baumert B, Plass A, **Bettex D**, Alkadi H, Desbiolles L, Wildermuth S, Marincek B, Boehm T. Dynamic cine mode imaging of the normal aortic valve using 16-channel multidetector row computed tomography. *Invest Radiol* 2005;**40**:637-47.  
(Impact factor: 1.99)
5. Alkadhi H, Wildermuth S, **Bettex DA**, Plass A, Baumert B, Leschka S, Desbiolles LM, Marincek B, Boehm T. Mitral regurgitation: Quantification with 16-Detector row CT. Initial experience. *Radiology* 2006; **238**:454-63.  
(Impact factor: 4.815)
6. Pretre R, Kadner A, Dave H, **Bettex D**, Genoni M. Tricuspidialisation of the aortic valve with creation of a crown-like annulus is able to restore a normal valve function in bicuspid aortic valves. *Eur J Cardiothorac Surg* 2006;**29**:1001-6.  
(Impact factor: 0.897)
7. Alkadhi H, Wildermuth S, Plass A, **Bettex D**, Baumert B, Leschka S, Desbiolles LM, Marincek B, Boehm T. Aortic stenosis: comparative evaluation of 16-dectector row CT and echocardiography. *Radiology* 2006;**240**:47-55.  
(Impact Factor: 4.815)
8. Kadner A, Dodge-Khatami A, Dave H, Knirsch W, **Bettex D**, Pretre R. Closure of restrictive ventricular septal defects through a right axillary thoracotomy. *Heart Surg Forum* 2006; **9**:E836-9.  
(Impact Factor 0.63)
9. Dodge-Khatami A, Knirsch W, Tomaske M, Pretre R, **Bettex D**, Rousson V, Bauersfeld U. Spontaneous closure of small residual ventricular septal defects after surgical repair. *Ann Thorac Surg* 2007;**83**:902-5.  
(Impact factor: 2.022)
10. Knirsch W, Kretschmar O, Tomaske M, Stutz K, Nagdyman N, Balmer C, Schmitz A, **Bettex D**, Berger F, Bauersfeld U, Weiss M. Cardiac output measurement in children: comparison of the Ultrasound Cardiac Output Monitor with thermodilution cardiac output measurement. *Intensive Care Med* 2008;**34**:1060-4.  
(Impact factor: 2.420)
11. Dave HH, Comber M, Solinger T, **Bettex D**, Dodge-Kathami A, Prêtre R. Mid-term results of right axillary incision for the repair of a wide range of congenital cardiac defects. *Eur J Cardiothorac Surg* 2009;**35**:864-9.  
(Impact factor: 1.134)
12. Baulig W, Spielmann N, Zaiter H, Lijovic T, **Bettex D**, Bürki C, Weiss M. In-vitro evaluation of the PediaSat continuous central venous oxygenation monitoring system. *Eur J Anaesthesiol*. 2010 March;**27**(3):289-94.  
(Impact factor: 0.849)

13. Baulig W, **Bettex D**, Bürki C, Schmitz A, Spielmann N, Woitzek K, Weiss M. The PediaSat continuous central SvO<sub>2</sub> monitoring system does not reliably indicate state or course of central venous oxygenation. *Eur J Anaesthesiol.* 2010 Aug;**27**:720-5.  
(Impact factor: 0.849)
14. Dave H, Mueggler O, Comber M, Enodien B, Nikolaou G, Bauersfeld U, Jenni R, **Bettex D**, Prêtre R. Risk factor analysis of 170 single-institutional conotegra implantations in pulmonary position. *Ann Thorac Surg.* 2011 Jan;**91**(1):195-202.  
(Impact factor: 2.022)
15. Ulmer FF, Baulig W, **Bettex D**, Spielmann N, Bürki C, Weiss M. Measurement of Activated Coagulation Time in Children: Evaluation of the Blood-Saving Kaolin i-STAT Activated Coagulation Time Technique in Pediatric Cardiac Anesthesia. *J Cardiothorac Vasc Anesth* 2011 Jun;**25**(3):395-401.  
(Impact factor: 0.81)
16. Stähli BE, Bünzli R, Grünenfelder J, Bühler I, Felix C, **Bettex D**, Biaggi P, Tanner FC, Nguyen-Kim DL, Plass A, Ge H, Falk V, Lüscher TF, Corti R, Maier W, Altwegg LA. Transcatheter aortic valve implantation (TAVI) outcome according to standardized endpoint definitions by the valve academic research consortium (VARC). *J Invasive Cardiol.* 2011 Aug;**23**(8):307-12.  
(Impact factor: 0.259)
17. Gaemperli O, Moccetti M, Surder D, Biaggi P, Hurlimann D, Kretschmar O, Buehler I, **Bettex D**, Felix C, Luscher TF, Falk V, Gruenenfelder J, Corti R. Acute haemodynamic changes after percutaneous mitral valve repair: relation to mid-term outcomes. *Heart.* 2012; **98**(2):126-32.  
(Impact factor: 1.784)
18. Reser D, Rodriguez Cetina Bieffer H, Plass A, Ruef C, Seifert B, **Bettex D**, Biaggi P, Falk V, Salzberg SP. Incidence of sternal wound infection after reexploration in the intensive care unit and the use of local gentamycin. *Ann Thorac Surg.* 2012 Dec;**94**(6):2033-7.  
(Impact factor: 3.741)
19. Sündermann SH, Gessat M, Cesarovic N, Frauenfelder T, Biaggi P, **Bettex D**, Falk V, Jacobs S. Implantation of personalized, biocompatible mitral annuloplasty rings: feasibility study in an animal model. *Interact Cardiovasc Thorac Surg.* 2013 Apr;**16**(4):417-22.  
(Impact Factor:1.112)
20. Emmert MY, Wolint P, Winkhofer S, Stolzmann P, Cesarovic N, Fleischmann T, Nguyen TD, Frauenfelder T, Böni R, Scherman J, **Bettex D**, Grünenfelder J, Schwartlander R, Vogel V, Gyöngyösi M, Alkadhi H, Falk V, Hoerstrup SP. Transcatheter based electromechanical mapping guided intramyocardial transplantation and in vivo tracking of human stem cell based three dimensional microtissues in the porcine heart. *Biomaterials.* 2013 Mar;**34**(10):2428-41.  
(Impact Factor:8.496)
21. Sürder D, Pedrazzini G, Gaemperli O, Biaggi P, Felix C, Rufibach K, Maur CA, Jeger R, Buser P, Kaufmann BA, Moccetti M, Hurlimann D, Bühler I, **Bettex D**, Scherman J, Pasotti E, Faletra FF, Zuber M, Moccetti T, Lüscher TF, Erne P, Grünenfelder J, Corti R. Predictors for efficacy of percutaneous mitral valve repair using the MitraClip system: the results of the MitraSwiss registry. *Heart.* 2013 Jul;**99**(14):1034-40.  
(Impact Factor: 5.014)
22. Gaemperli O, Biaggi P, Gugelmann R, Osranek M, Schreuder JJ, Bühler I, Sürder D, Lüscher TF, Felix C, **Bettex D**, Grünenfelder J, Corti R. Real-time left ventricular pressure-volume loops during percutaneous mitral valve repair with the MitraClip system. *Circulation.* 2013 Mar **5**;127(9):1018-27.  
(Impact Factor:15.202)
23. Starck CT, **Bettex D**, Felix C, Reser D, Dreizler T, Hasenclever P, Falk V. Initial results of an optimized perfusion system. *Perfusion.* 2013 Jul;**28**(4):292-7.  
(Impact Factor:0.940)

24. Lachat ML, Pecoraro F, Mayer D, Guillet C, Glenck M, Rancic Z, Schmidt CA, Puipe G, Veith FJ, Bley J, **Bettex D**. Outpatient endovascular aortic aneurysm repair: experience in 100 consecutive patients. Ann Surg. 2013 Nov;258(5):754-8; discussion 758-9.  
(Impact Factor: 6.329)
25. Lachat M, Veith FJ, Pfammatter T, Glenck M, **Bettex D**, Mayer D, Rancic Z, Gloekler S, Pecoraro F. Chimney and periscope grafts observed over 2 years after their use to revascularize 169 renovisceral branches in 77 patients with complex aortic aneurysms. J Endovasc Ther. 2013 Oct;20(5):597-605.  
(Impact Factor: 2.699)
26. Sündermann SH, Biaggi P, Grünenfelder J, Gessat M, Felix C, **Bettex D**, Falk V, Corti R. Safety and feasibility of novel technology fusing echocardiography and fluoroscopy images during MitraClip interventions. EuroIntervention. 2013 Oct 10. (Epub ahead of print)  
(Impact Factor: 3.173)
27. Biaggi P, Felix C, Gruner C, Herzog BA, Hohlfeld S, Gaemperli O, Stähli BE, Paul M, Held L, Tanner FC, Grünenfelder J, Corti R, **Bettex D**. Assessment of mitral valve area during percutaneous mitral valve repair using the MitraClip system: comparison of different echocardiographic methods. Circ Cardiovasc Imaging. 2013 Nov;6(6):1032-40.  
(Impact Factor: 5.795 )
28. Corti R, Biaggi P, Gaemperli O, Bühler I, Felix C, **Bettex D**, Kretschmar O, Falk V, Grünenfelder J. Integrated x-ray and echocardiography imaging for structural heart interventions. EuroIntervention. 2013 Nov 22;9(7):863-9.  
(Impact Factor: 3.173)
29. Emmert MY, Puipe G, Baumüller S, Alkadhi H, Landmesser U, Plass A, **Bettex D**, Scherman J, Grünenfelder J, Genoni M, Falk V, Salzberg SP. Safe, effective and durable epicardial left atrial appendage clip occlusion in patients with atrial fibrillation undergoing cardiac surgery: first long-term results from a prospective device trial. Eur J Cardiothorac Surg. 2014 Jan;45(1):126-31.  
(Impact Factor:2.674)
30. Emmert MY, Weber B, Behr L, Sammut S, Frauenfelder T, Wolint P, Scherman J, **Bettex D**, Grünenfelder J, Falk V, Hoerstrup SP. Transcatheter aortic valve implantation using anatomically oriented, marrow stromal cell-based, stented, tissue-engineered heart valves: technical considerations and implications for translational cell-based heart valve concepts. Eur J Cardiothorac Surg. 2014 Jan; 45(1):61-8.  
(Impact Factor:2.674)
31. Chaykovska L, Blohmé L, Mayer D, Gloekler S, Rancic Z, Tunesi R, Veith F, Lachat M, **Bettex D**. Paraincisional subcutaneous infusion of ropivacaine after open abdominal vascular surgery shows significant advantages. Ann Vasc Surg 2014;28(4):837-44.  
(Impact factor: 1.082)
32. Gruner C, Herzog B, **Bettex D**, Felix C, Datta S, Greutmann M, Gaemperli O, Müggler SA, Tanner FC, Gruenenfelder J, Corti R, Biaggi P. Quantification of Mitral Regurgitation by Real Time Three-Dimensional Color Doppler Flow Echocardiography Pre- and Post-Percutaneous Mitral Valve Repair. Echocardiography. 2014 Oct 18. (Epub ahead of print)  
(Impact Factor: 1.254)
33. Rudiger A, Breitenstein A, Arrigo M, Salzberg SP, **Bettex D**. Suitability, efficacy, and safety of vernakalant for new onset atrial fibrillation in critically ill patients. Crit Care Res Pract. 2014 May 12. (Epub ahead of print)
34. **Bettex DA**, Wanner PM, Bosshart M, Balmer Ch, Knirsch W, Dave H, Dillier C, Bürki Ch, Hug M, Seifert B, Spahn DR, Beck-Schimmer B. Role of sevoflurane in organ protection during cardiac surgery in children: a randomized controlled trial. Interactive CardioVascular and Thoracic Surgery 2014; in press.  
(Impact Factor: 1.109)



35. Holubec T, Caliskan E, Sündermann SH, Starck CT, Plass A, **Bettex D**, Falk V, Maisano F. The Use of Extracellular Matrix Patches in Cardiac Surgery. *J Card Surg* 2014 Dec 23 (Epub ahead of print)  
(Impact Factor: 0.888)

### Reviews and Guidelines

36. Chassot PG, **Bettex D**. Anesthesia and adult congenital disease. *J Cardiothorac Vasc Anesth* 2006;**20**:414-37.  
(Impact factor: 0.772)
37. Feneck R, Kneeshaw J, Fox K, **Bettex D**, Erb J, Flaschkampf F, Guarracino F, Ranucci M, Seeberger M, Sloth E, Tschernich H, Wouters P, Zamorano J; European Association of Cardiothoracic Anaesthesiologists (EACTA) and the European Association of Echocardiography (EAE). Recommendations for reporting perioperative transoesophageal echo studies. *Eur J Echocardiogr.* 2010 Jun;**11**:387-93.  
(Impact factor: 1.476)
38. Biaggi P, Felix Ch, Greutmann M, Hürlimann D, **Bettex D**, Tanner FC. Dreidimensionale Echokardiographie zur Beurteilung der Mitralklappe. *Cardiovasc Medizin* 2011; 14(1):4-12.
39. **Bettex DA**, Felix C, Lachat M. New techniques in endovascular surgery: challenges for the anesthesiologist? *Anaesth Int.* 2012;6(1):28-33.
40. Rudiger A, Breitenstein A, Bosshart M, **Bettex D**. *Die akute Rechtsherzinsuffizienz. Teil 1: Mechanismen und Diagnostik.* *Swiss Medical Forum = Schweizerisches Medizin-Forum.* 2012;12(17):347-351.
41. Rudiger A, Bosshart M, Breitenstein A, **Bettex D**. *Die akute Rechtsherzinsuffizienz. Teil 2: Therapie.* *Swiss Medical Forum = Schweizerisches Medizin-Forum.* 2012;12(18):364-368.
42. **Bettex D**, Bosshart M, Chassot PG, Rudiger A. Die intensivmedizinische Behandlung von Erwachsenen mit angeborenen Herzfehlern. *Medizinische Klinik - Intensivmedizin und Notfallmedizin.* 2013 Oct;108(7):561-8.  
(Impact Factor: 0.410 )
43. Arrigo M, **Bettex D**, Rudiger A. Management of Atrial Fibrillation in Critically Ill Patients. *Critical Care Research and Practice* 2014 Jan 16. (Epub ahead of print)
44. **Bettex DA**, Prêtre R, Chassot PG. Is our heart a well-designed pump? The heart along animal evolution. *Eur Heart J.* 2014 Sep 7;**35**(34):2322-32.  
(Impact Factor: 14.723)

### Case reports

45. Stolzmann P, Scheffel H, **Bettex D**, Karlo C, Frauenfelder T, Pretre R, Marincek B, Alkadhi H. Subvalvular aortic stenosis: comprehensive cardiac evaluation with dual-source computed tomography. *J Thorac Cardiovasc Surg* 2007;**134**:240-41.  
(Impact factor: 2.986)
46. Prêtre R, Häussler A, **Bettex D**, Genoni M. Right-sided univentricular cardiac assistance in a failing Fontan circulation. *Ann Thorac Surg* 2008;**86**:1018-20.  
(Impact factor: 2.022)
47. Emmert MY, Pretre R, Sündermann S, Weber B, **Bettex DA**, Hoerstrup SP, Falk V. Severe traumatic tricuspid insufficiency detected 10 years after blunt chest trauma. *Clin Res Cardiol.* 2011 Feb;**100**(2):177-9.  
(Impact factor: 3.667)

48. Stein P, Bosshart M, Brand B, Schlicker A, Spahn DR, Bettex D. Dabigatran anticoagulation and Stanford Type A aortic dissection: lethal coincidence. *Acta Anaesthesiol Scand* 2014 May;58(5):630-7  
(Impact factor: 2.355)
49. Maisano F, Reser D, Pavicevic J, Nietlispach F, Gämperli O, Schmid M, **Bettex D**, Falk V. Successful first-in-man Melody transcatheter valve implant in a dehiscenced mitral annuloplasty ring transapical valve-in-ring implant. *Eurointervention* 2014 Dec 22 (EPub ahead of print)  
(Impact factor : 3.758)

### Book Chapters

1. **Bettex DA**, Chassot PG, Rhomberg P. Physikalische Grundlagen der Echokardiographie. In: Seeberger MD, Zerkowski HR, eds. *Die Echokardiographie im perioperativen und intensivmedizinischen Bereich*. Steinkopff Verlag, Darmstadt, 2006, pp1-25.
2. **Bettex D**, Chassot PG. Normal valves. In: Feneck R, Kneeshaw J, Ranucci M, eds. *Core topics in transoesophageal echocardiography*. Cambridge University Press, Cambridge, 2010, pp59-72.
3. **Bettex D**, Chassot PG. Transesophageal echocardiography in congenital heart disease. In: Bissonnette B, ed. *Pediatric Anesthesia: Basic principles – State of the art – Future*. New York: McGraw-Hill, 2011, pp1186-1212.
4. **Bettex DA**, Bosshart M, Greutmann M. Adult Congenital Heart Disease. In: Reich D. *Perioperative Transesophageal Echocardiography*. Elsevier, St Louis, 2013.
5. **Bettex DA**, Bosshart M. Transösophageale Echokardiografie bei Patienten mit kongenitaler Herzerkrankung. In: Eckart J, Jaeger K, Möllhoff Th. *Anästhesiologie Kompendium und Repetitorium zur Weiter- und Fortbildung*. Ecomed Medizin, Heidelberg, München, 2014 Juli, chapter 5.1.17. pp1-48.