



ESA Fellowship Programme

Host Centre Application Form

1	Contact Name:	Székely Andrea MD, DEAA, PhD
2	Department:	Department of Pediatric Anesthesia and Intensive Care
3	Hospital Name:	Gottsegen Hungarian Institute of Cardiology
4	Address:	Haller u 29 Budapest 1096 Hungary
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7	E-mail:	szekelya@kardio.hu, andi_szekely@yahoo.com
8	Clinical interests:	pediatric and adult cardiac anesthesia and intensive care, tertiary cardiac center hemodynamic monitoring with continuous pulse contour analysis and with echocardiography, grown-up congenital heart disease, transplantation
9	Lab interests:	Research:retrospective analysis of a 7 year prospectively collected pediatric cardiac database, different topics: role of transfusion, blood sugar, RIFLE categories etc. Role of psychosocial factors in the short-term and long-term outcome of patients undergoing cardiac surgical procedures
10	Supervisor:	Andrea Székely
11	Fellowship duration:	<input type="checkbox"/> 1 month <input type="checkbox"/> 2 months <input checked="" type="checkbox"/> X 3 months (preferred option)
12	Specific months preferred??	none
13	Grade:	4th or 5th year resident of training or shortly after board exam
14	Language requirements of an attending Fellow	English or German
15	Specific legal or other requirements of an attending	none

English or German

none

no

pediatric and adult cardiac anesthesia and intensive care, tertiary cardiac center
hemodynamic monitoring with continuous pulse contour analysis and with
echocardiography, grown-up congenital heart disease, transplantation

1. Lozsadi K, Hartyanszky I, Huttli T, Sapi E, Szekely A, Kiraly L. Vascular ring and pulmonary loop: experience with the surgical treatment. *Grud Serdechnosudistaia Khir* 1991; 10: 6-9.
2. Tassani P, Otto D, Szekely A, Meiser B. Transfusion of platelet-rich plasma from organ donor during cardiac transplantation. *J Clin Anesth* 1997; 9: 409-14. (IF: 0,960)
3. Szekely A, Zahler S, Heindl B, Becker BF, Conzen P. S(+)-ketamine, but not R(-) ketamine reduces postischemic adherence of neutrophils in the coronary system of isolated guinea pig hearts. *Anesth Analg* 1999; 88: 1017-24. (IF: 2,509)
4. Szekely A, Heindl B, Zahler S, Conzen PF, Becker BF. Nonuniform behavior of intravenous anesthetics on the postischemic adhesion of neutrophils in the guinea pig heart. *Anesth Analg* 2000; 90: 1293-1300. (IF: 2,321)
5. Szekely A, Sapi E, Kiraly L, Szatmari A, Dinya E. Intraoperative and postoperative risk factors for prolonged mechanical ventilation after pediatric cardiac surgery. *Paediatr Anaesth* 2006; 16: 1166-75. (IF: 1,677)

6. Breuer T, Sapi E, Skoumal R, Szekely A. N-terminal probrain natriuretic peptide level inversely correlates with cardiac index after arterial switch operation in neonates. *Paediatr Anaesth* 2007; 17: 722-28. (IF: 1,677)
7. Szekely A, Balog P, Breuer T, Kertai M, Szekely J, Kopp M, Thyver J. Anxiety predicts mortality and morbidity after coronary artery and valve surgery-A four year follow up study. *Psychosom Med* 2007; 69: 625-31. (IF: 3,857)
8. Székely A, Sági E, Breuer T, Kertai MD, Bodor G, Vargha P, Szatmári A. Aprotinin and renal dysfunction after pediatric cardiac surgery. *Paediatr Anaesth* 2008; 18: 151-9. (IF: 1,677)
9. Kassai I, Foldesi C, Szekely A, Szili-Torok T. New method for cardiac resynchronization therapy: transapical endocardial lead implantation for left ventricular free wall pacing. *Europace* 2008; 10: 882-3. (IF: 1,376)
10. Szekely A, Cserep Z, Sapi E, Breuer T, Nagy AC, Vargha P, Hartyanszky I, Szatmári A, Treszl A. Risks and predictors of blood transfusion in pediatric patients undergoing open heart surgery. *Ann Thor Surg* (under revision)

Papers in Hungarian

1. Hartyánszky I, Kádár K, Prodán Zs, Székely A, Tamás Cs. Truncus arteriosus communis primer korrekciója csecsemőkorban, méretre alakított pulmonalis homograft felhasználásával. *Orvosi Hetilap* 1999; 140: 1361-1363.
2. Hartyánszky I, Bodor G, Prodán Zs, Oprea V, Szatmári A, Székely A, Kádár K. Komplex nagyértranszpozíció sikeres sebészi korrekciója újszülöttkorban. *Cardiologia Hungarica* 1999; 29: 137-139.
3. Székely A, Benkő E, Varga A, Mészáros R.: Posztoperatív depresszió nyitott szívűműtét után. *Orvosi Hetilap* 2001; 41: 2263-2265.
4. Székely A. Az anesztetikumok szerepe a perioperatív időszakban. *Aneszteziológia és Intenzív Terápia* 2002; 32: 27-34.
5. Hartyánszky I, Kollár A, Szatmári A, Székely A, Kádár K, Oprea V, Székely E, Héthársi B, Környei L, Prodán Zs, Sági E. Veszélyes aortabillentyű- betegség kezelése pulmonalis allografttal gyermekkorban. Korai eredmények. *Orvosi Hetilap* 2002; 143: 1745-48.
6. Székely A. Anesztetikumok és aneszteziológiai technikák a reperfüzió és az ischaemias sérülés leküzdésében. *Focus Medicinæ* 2002; 3: 3-10.
7. Székely A, Sági E. Anesztetikumok szerepe az ischemia-reperfüziós sérülés kivédésében. *Aneszteziológia és Intenzív Terápia* 2003; 33: 4-12.

22. Cserep Zs, Sapi E, Szekely E, Fischer K, Hetharsi B, Szekely A, Hartyanszky I, Szatmari A. Alterations in laboratory values after uncomplicated infant open-heart cardiac surgery on the first days. *Eur J Anesth* 2007; 24: Suppl.
23. Malik A, Balog P, Szekely A, Meszaros R. Depression and personality 5 year follow up. *Eur J Anesth* 2007; 24: Suppl.
24. Szekely A, Sapi E, Cserep Zs, Breuer T, Szatmari A. Blood product transfusion and morbidity after pediatric open-heart surgery. *Anesthesiology* 2007; 107: A227.
25. Cserep Zs, Sapi E, Breuer T, Szekely A, Szatmari A. Hyperglycemia is an independent predictor of multi organ dysfunction after pediatric cardiac surgery. *Eur J Anesth* 2008; 25 (S44): 10AP2-7.
26. Breuer T, Cserep Z, Fischer K, Hartyanszky I, Hetharsi B, Sapi E, Szatmari A, Szekely A, Szenczi B, Tóth R. Use of creatinine levels for staging of acute kidney injury in pediatric patients undergoing open heart surgery. *Anesth Analg* 2008; 106 (Sca Suppl): SCA49.
27. Breuer T, Zupan K, Tassani P, Hess J, Szekely A. A risk score to predict prolonged mechanical ventilation in children undergoing open heart surgery. *Anesthesiology* 2008;
28. Szekely A, Losoncz E, Balog P, Cserep Zs, Breuer T. The effect of psychosocial factors on the recovery of patients after cardiac surgery. *Anesthesiology* 2008;

8. Székely A, Breuer T. Az altatógázok prekondicionáló és kardioprotektív tulajdonságai. *LAM* 2005; 15: 905-912.
9. Király L, Temesvári A, Székely A, Prodán Zs, Liptai C, Szudi L, Hartyánszky I, Havrancsik C, Szatmári A. Adult congenital heart program in a tertiary care facility of pediatric cardiology. *Orvosi Hetilap* 2005; 146: 209-14.
10. Balog P, Székely A, Szabó G, Kopp M. A Rövidített Házastársi Stressz Skála pszichometriai jellemzői. *Mentálhigiéne és Pszichoszomatika* 2006; 7: 193-203.
11. Cserép Zs, Székely A. A hiperglikémia szerepe a szívműtétek kimenetelében. *Aneszteziológia és Intenzív Terápia* 2007; 37: 29-34.
12. Cserép Zs, Losonczi E, Malik A, Székely A, Balog P, Kopp M. Nyitott szívműtéten átesett betegek életkilátásait meghatározó pszichoszociális tényezők. *Orvosi Hetilap* – 2008; 33: 457-459

Abstracts in cited journals

1. Nollert G, Möhnle P, Szekely A, Tassani P, Uttner I, Frings W. Intraoperative cerebral monitoring during cardiac operations by EEG, measurement of cerebral hemoglobin, cytochrom aa3 and oxygen saturation in the jugular bulb - evaluation of parameters. *Thorac Cardiovasc Surg* 1994; (Suppl): 142.
2. Tassani P, Meiser B, Szekely A, Überfuhr P, Otto D. Steigerung der Thrombozytenkonzentration beim Empfänger durch die Transfusion thrombozytenreiches Plasmas des Organspenders während Herztransplantations. *Anesthesist* 1995; 44(Suppl 2): 69.
3. Nollert G, Baumgart C, Schmockel M, Kur F, Mattke S, Szekely A, Uttner I, Welz A, Reichart B. Zerebrale Konsequenzen der Indikation von kammerflimmern während der Implantation eines Defibrillators. *Kardiologie* 1996; 85 (Suppl 2): 109.
4. Szekely A, Zahler S, Heindl B, Becker BF, Conzen P. Influence of different intravenous anesthetics on the postischemic adhesion of neutrophils in the coronary system. *Anesthesiology* 1997; 87: A 537.
5. Szekely A, Martin K, Kilger E, Vetter H, Nollert G, Jänicke U, Conzen P. Different influences of long-term ACE inhibitor treatment for norepinephrine support during cardiac surgery. *Br J Anaesth* 1997; 78: A 15 (Suppl 2).
6. Szekely A, Zahler S, Heindl B, Becker BF, Conzen P. Different influence of ketamine stereoisomers on the postischemic adhesion of neutrophils in the coronary system. *Br J Anaesth* 1998; 80: A 42.
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9. Szekely A, Szekely L, Sapi E, Szekely E, Novak E, Lozsadi K, Meszaros R. Predictive factors for the outcome of the open heart surgery in neonates and infants. *Br J Anaesth* 2000; 84: Suppl. A 52.
10. Szekely A, Szekely L, Sapi E: Zusaetzliche praediktive Faktoren bezüglich des Outcomes von Neugeborenen in der offenen Herzchirurgie. *Anaesth Intenzivmed* 2000; 41: 2U5.
11. Szekely A, Benko E, Varga A, Jakics J, Meszaros R. Depression and anxiety in cardiac surgical patients. *Eur J Anaesth* 2001; 18: S 22: A-87. (EACTA 2001, Weimar-best oral presentation)
12. Szekely A, Benko E, Biro H, Torma G, Meszaros R. Depression and anxiety after cardiac surgery-long term follow-up. *Eur J Anaesth* 2002; 19 (Suppl): O15.
13. Szekely A., Benko E., Till J, Meszaros R. Depression and anxiety after cardiac surgery-long term follow-up-second year results. *Eur J Anaesth* 2004; 21 (Suppl): P85.
14. Szekely A, Seres L, Szekely E, Sapi E, Toth M, Breuer T, Kiraly L, Szatmari A. Levels of natriuretic peptides during paediatric open heart surgery *Eur J Anaesth* 2004; 21 (S 33): 095.
15. Szekely A, Zupan K, Breuer T, Sapi E, Szekely E, Hetharsi B, Szatmari A. Role of postoperative hyperglycemia after pediatric heart surgery. *Eur J Anaesth* 2005; 22 (S34): A-544.
16. Breuer T, Szekely A, Sapi E, Zupan K, Szekely E, Hetharsi B, Till J, Szatmari A. Hyperglycaemia and mortality after paediatric cardiac surgery. *Eur J Anaesth* 2005; 22 (S35): P74.
17. Zupan K, Szekely A, Sapi E, Breuer T, Szekely E, Hetharsi B, Till J, Szatmari A. Infection and glucose levels in a postoperative paediatric cardiac unit. *Eur J Anaesth* 2005; 22 (S35): P75.
18. Husz A, Balog P, Szekely A, Benko E, R Meszaros R. Gender differences in postoperative neuropsychological disabilities after cardiopulmonary bypass *Eur J Anaesth* 2005; 22 (S35): 19.
19. Breuer T, Szekely A, Sapi E, Szekely E, Hetharsi B, Seres L, Leppaluoto J, Szatmari A. Natriuretic peptide levels correlate strongly with cardiac index and global ejection fraction following paediatric cardiac surgery. *Eur J Anesth* 2006; 23 (S38): O-63.
20. Szekely A, Cserep Zs, Sapi E, Breuer T, Szatmari A. Risk and predictors of blood transfusion in patients undergoing paediatric open heart surgery *Eur J Anesth* 2007; 24 (S39): 10AP5-7.
21. Sapi E, Szekely E, Cserep Zs, Fischer K, Hetharsi B, Szekely A, Hartyanszky I, Szatmari A. Infections and glucose homeostasis in a postoperative paediatric cardiac unit. *Ped Crit Care Med* 2007; Suppl.

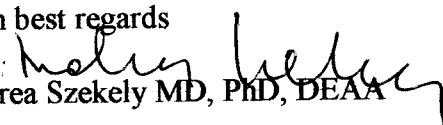
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Dear de Bisschop,

September 15, 2008

I would like to apply as a host centre of the European Society of Anesthesiologists. I am working as Vice Head of the Department of Pediatric Anesthesia and Intensive Care in a tertiary facility center, called Gottsegen György Hungarian Institute of Cardiology.

With best regards


Andrea Szekely MD, PhD, DEAA

Anesthesiologist

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