

## Contents

### Monday, May 26 / 11:00 to 12:30 / Forum Hall

#### Free Papers Session I

##### Myocardial and lung function

I-1 (No: 048) Normality range of cardiac troponin I after different cardiac surgery operations .....	2
I-2 (No: 008) Myocardial recovery after cardiac surgery: is the ECG an indicator of stunning? A comparison between beating heart and standard CPB CABG .....	2
I-3 (No: 025) Clinical significance of a new Q wave after cardiac surgery .....	4
I-4 (No: 111) Long-term alterations of heart rate dynamics after CABG surgery .....	4
I-5 (No: 092) Effect of different recumbent positions on arterial oxygenation in valvular heart disease patients with cardiomegaly .....	6
I-6 (No: 093) Effects of PEEP on ventilatory and oxygenation parameters during pressure controlled one-lung ventilation .....	6
I-7 (No: 158) Can intrapulmonary shunt after cardiopulmonary bypass be prevented by ventilatory manoeuvres? .....	8

### Monday, May 26 / 11:00 to 12:30 / North Hall

#### Free Papers Session II

##### Haemostasis and transfusion

II-1 (No: 072) The effect of heparin on vascular endothelial function by monitoring intracellular accumulation of cGMP .....	12
II-2 (No: 001) Clopidogrel does not increase bleeding and allogenic blood transfusion in coronary artery surgery .....	12
II-3 (No: 003) Increased need of fluid during cardiopulmonary bypass increases blood transfusion and length of hospital stay .....	14
II-4 (No: 029) The efficiency of high volume autologous blood donation and the use of a cell saver in reducing donor blood requirements in on-pump CABG .....	14
II-5 (No: 055) OPCAB reduces transfusion requirements: a retrospective analysis of 1170 patients .....	16
II-6 (No: 073) Post cardiopulmonary bypass bleeding: comparison of two cardiopulmonary bypass circuits .....	16
II-7 (No: 144) Excessive activation of haemostasis takes place in the early postoperative period after routine CABG surgery .....	18

### Monday, May 26 / 16:00 to 17:30 / Forum Hall

#### Free Papers Session III

##### Thoraco-abdominal aorta and case reports

III-1 (No: 131) Biochemical markers of cerebrospinal ischaemia after repair of aneurysms of the descending and thoraco-abdominal aorta .....	22
III-2 (No: 114) Spinal cord and visceral protection during thoraco-abdominal aortic aneurysm repair: initial experience .....	22
III-3 (No: 049) Perioperative management of a haemodialysed patient with antiphospholipid syndrome submitted to aortic valve replacement: Case Report .....	24
III-4 (No: 085) Williams syndrome: phenylephrine infusion to prevent postoperative ischaemia after aortoplasty: a case report .....	24
III-5 (No: 035) Haemodynamic changes during superior vena cava reconstruction surgery .....	26
III-6 (No: 024) An unusual cause of hypoxaemia in a patient with pneumonia: persistent foramen ovale and its management .....	26
III-7 (No: 043) Autologous blood patch pleurodesis for persistent air leak after cardiac surgery: a case report .....	28

### Monday, May 26 / 16:00 to 17:30 / North Hall

#### Free Papers Session IV

##### Metabolism and renal function

IV-1 (No: 002) Lactic acidosis after cardiac surgery is an early predictor of adverse outcome .....	32
IV-2 (No: 053) Mannitol in the bypass prime does not modify renal tubular function .....	32
IV-3 (No: 101) Low dose doxepamine does not alter subclinical renal indices following cardiac surgery .....	34
IV-4 (No: 178) Renal blood flow with and without intra-aortic counterpulsation .....	34
IV-5 (No: 061) Hypermetabolic response after coronary surgery performed on or off-pump .....	36
IV-6 (No: 077) No thermogenic effect of an amino acid infusion in heart surgery with cardiopulmonary bypass .....	36
IV-7 (No: 151) Plasma and interstitial concentrations of cefazolin during and after cardiopulmonary bypass .....	38
IV-8 (No: 132) Insulin resistance after cardiac surgery: maintaining euglycaemia with insulin and thoracic epidural analgesia .....	38

### Tuesday, May 27 / 11:00 to 12:30 / Forum Hall

#### Free Papers Session V

##### Risk factors & Outcome

V-1 (No: 076) Which patients should undergo duplex carotid screening prior to coronary artery surgery? .....	42
V-2 (No: 091) Incidence and predictive factors for difficult laryngoscopy in cardiac surgery patients .....	42
V-3 (No: 004) Off-pump CABG may reduce the risk of complications in elderly patients .....	44

V-4 (No: 104) Postoperative course and economic impact of coronary surgery without cardiopulmonary bypass .....	44
V-5 (No: 116) Preoperative procalcitonin levels and the incidence of complications in the early postoperative period after heart transplantation .....	46
V-6 (No: 110) A prospective study of postoperative hyperamylasaemia in cardiac surgical patients .....	46
V-7 (No: 062) Subcutaneous tissue oxygen tension measurements in wound tissue after off-pump or conventional coronary revascularization .....	48
<b>Tuesday, May 27 / 11:00 to 12:30 / North Hall</b>	
<b>Free Papers Session VI</b>	
<b>Drugs &amp; Experiments</b>	
VI-1 (No: 014) Carnitine derivatives reduce endothelin generation during cardiopulmonary bypass in patients with diabetes .....	52
VI-2 (No: 054) Propionyl-L-carnitine reduces pulmonary artery pressure after CABG in diabetic patients .....	52
VI-3 (No: 028) The effect of the medetomidine-ketamine combination on haemodynamic parameters during haemorrhagic shock .....	54
VI-4 (No: 082) Methylprednisolone reduces urinary transforming growth factor beta-1 concentration at aortic surgery .....	54
VI-5 (No: 126) Does apolipoprotein E $\epsilon 4$ allele affect neurobehavioral status after on-pump coronary artery bypass grafting? .....	56
VI-6 (No: 141) Endothelial dysfunction and acute lung injury during cardiopulmonary bypass in pigs is prevented by inhaled nitric oxide .....	56
VI-7 (No: 109) The effect of flow type during cardiopulmonary bypass on endotoxin core antibodies during and after cardiac surgery .....	58
<b>Tuesday, May 27 / 16:00 to 17:30 / Forum Hall</b>	
<b>Free Papers Session VII</b>	
<b>Regional anaesthesia &amp; Pain management</b>	
VII-1 (No: 120) Continuous cervico-thoracic epidural anaesthesia for cardiac surgery: experience in more than 1500 patients .....	62
VII-2 (No: 078) Thoracic epidural analgesia reduces the perioperative stress response and troponin-I release in off-pump coronary artery bypass grafting patients .....	62
VII-3 (No: 122) High thoracic epidural anaesthesia in one stage off-pump coronary artery surgery and carotid endarterectomy .....	64
VII-4 (No: 177) High thoracic visceral epidural analgesia for epicardial mapping and radio frequency ablation of cardiac arrhythmias .....	64
VII-5 (No: 047) Similar pain scores after early and late extubation in heart surgery with cardiopulmonary bypass .....	66
VII-6 (No: 166) Postoperative analgesia with remifentanyl in patients undergoing cardiac surgery .....	66
<b>Tuesday, May 27 / 16:00 to 17:30 / North Hall</b>	
<b>Free Papers Session VIII</b>	
<b>BIS &amp; TCI</b>	
VIII-1 (No: 058) Sevoflurane decreases bispectral index more than halothane at equipotent MAC levels .....	70
VIII-2 (No: 100) Is Bispectral Index monitoring useful to detect severe injury to the brain? .....	70
VIII-3 (No: 124) Monitoring spectral frequency index (SfX) reveals high inter-individual variation in propofol concentrations with TCI .....	72
VIII-4 (No: 128) Does bispectral index-guided sedation with clonidine affect the neuroendocrine and inflammatory response after cardiac surgery? .....	72
VIII-5 (No: 081) Closed-loop propofol in open-heart surgery .....	74
VIII-6 (No: 103) TCI propofol attenuates the inflammatory response in intermediate-risk elective CABG .....	74
VIII-7 (No: 119) Remifentanyl versus alfentanil and target-controlled infusion of propofol for cardiac anaesthesia .....	76
<b>Wednesday, May 28 / 11:00 to 12:00 / Forum Hall</b>	
<b>Free Papers Session IX</b>	
<b>Echocardiography</b>	
IX-1 (No: 037) Echocardiographic evaluation of effects of anaesthetics on diastolic function in healthy young humans .....	80
IX-2 (No: 063) Perioperative transoesophageal echocardiography is important during valve replacement .....	80
IX-3 (No: 150) Myocardial strain and strain rate during aortic valve replacement: Evaluation by transoesophageal myocardial tissue velocity imaging .....	82
IX-4 (No: 059) Right ventricular function during coronary surgery: feasibility of the Tei index .....	82
IX-5 (No: 148) Quantitative analysis of mitral annulus motion by Doppler tissue imaging indicates myocardial ischaemia .....	84
IX-6 (No: 157) Substernal epicardial echocardiography imaging technology (SEE ITm): clinical evaluation of a new imaging technique in the postoperative cardiac surgical patient .....	84
<b>Wednesday, May 28 / 11:00 to 12:00 / North Hall</b>	
<b>Free Papers Session X</b>	
<b>Evaluation of methods &amp; Techniques</b>	
X-1 (No: 154) Myocardial electrical impedance is correlated to coronary artery blood flow in humans .....	88
X-2 (No: 180) Cardiac output measurement by pulse dye densitometry in cardiac surgery: validation against a reference technique of known accuracy .....	88
X-3 (No: 145) Successful treatment of severe coronary vasospasm: case report .....	90
X-4 (No: 040) Off-pump revascularization in patients with left ventricular dysfunction: haemodynamic evaluation .....	90
X-5 (No: 100) Remifentanyl use in pulmonary hypertension associated with congenital heart disease .....	92
X-6 (No: 105) Haemodynamic effects of ketamine and propofol in children during cardiac catheterization .....	92
<b>Monday, May 26 / 13:30 to 15:00 / Forum Hall</b>	
<b>Poster Presentation Session 1</b>	
<b>Haemostasis &amp; CPB</b>	
1-1 (No: 009) To which extend is anaemia tolerated on cardiopulmonary bypass? .....	96
1-2 (No: 031) Intraoperative autohaemotransfusion during CABG .....	96
1-3 (No: 010) Effect of acute normovolaemic haemodilution on coagulation status .....	98
1-4 (No: 159) Haemostatic effects of hydroxyethyl starch priming solution for cardiopulmonary bypass .....	98
1-5 (No: 098) The effect of gelatin versus starch on postoperative bleeding in adult CABG patients (COCOT - colloid versus colloid trial) .....	100
1-6 (No: 129) Bedside aPTT measurement after cardiopulmonary bypass: impact on protamine treatment .....	100



1-7 (No: 057) Targeted therapy of post-cardiopulmonary bypass bleeding using novel thromboelastograph® (TEG®) system reagents: a case report	102
1-8 (No: 056) Nitric oxide during CPB	102
1-9 (No: 011) The effect of anti-fibrinolytic agents on exhaled nitric oxide during cardiac surgery: a double blind placebo controlled trial	104
1-10 (No: 136) Metabolic acidosis in cardiac surgery with CPB: role of the Stewart approach and the chloride	104
1-11 (No: 102) SMA treated bypass circuits improve perfusion pressure following initiation of cardiopulmonary bypass	106
1-12 (No: 052) Systemic vascular resistance during rewarming from cardiopulmonary bypass determines post-operative hypothermia	106
1-13 (No: 127) The effect of methylene blue on cortisol levels in treatment of hypotension at the initiation of and after cardiopulmonary bypass in dogs	108
1-14 (No: 135) Inotropic support and early outcome in patients undergoing cardiac surgery: high dose versus low dose aprotinin	108
1-15 (No: 044) Leukocyte apoptosis markers concentration during the CABG procedure	110

#### Monday, May 26 / 13:30 to 15:00 / North Hall

##### Poster Presentation Session 2

##### Cardiac anaesthesia

2-1 (No: 074) Minimally invasive cardiac surgery: a 5-year experience with 170 patients	114
2-2 (No: 026) Redo CABG is not a contraindication for off-pump cardiac surgery: our experience	114
2-3 (No: 064) The effect of pre-operative propranolol or atenolol on dobutamine infusion in off-pump coronary artery bypass grafting	116
2-4 (No: 171) Haemodynamic changes during off-pump coronary artery bypass surgery	116
2-5 (No: 067) Comparison of haemodynamic changes between different coronary artery anastomoses during off-pump coronary artery bypass graft surgery	118
2-6 (No: 006) Haemodynamics during exposure of the back wall of the heart during OPCAB surgery: Xpose® versus pericardial stitches	118
2-7 (No: 075) The effect of intraluminal shunt use on myocardial damage during MIDCAB	120
2-8 (No: 022) The effects of remifentanyl and fentanyl in Coronary Artery Bypass Graft Surgery	120
2-9 (No: 164) Haemodynamics during skin incision and sternotomy in CABG surgery: remifentanyl versus fentanyl	122
2-10 (No: 165) Pre-bypass cardiovascular stability with target controlled infusions of remifentanyl and propofol during heart valve surgery for aortic stenosis	122
2-11 (No: 021) Comparison of rocuronium and cisatracurium in patients undergoing coronary artery surgery	124
2-12 (No: 012) Desflurane-sufentanyl reduce troponin-I production after CABG	124
2-13 (No: 125) Use of terlipressin and angiotensinamid in therapy of severe hypotension after cardiac surgery: effect on survival	126
2-14 (No: 013) Effects of operating room extubation after CABG surgery on early postoperative myocardial ischaemia	126
2-15 (No: 170) Comparison of sevoflurane and isoflurane anaesthesia in paediatric open heart surgery	128

#### Tuesday, May 27 / 13:30 to 15:00 / Forum Hall

##### Poster Presentation Session 3

##### Intensive care & Pain management

3-1 (No: 163) Glucose-insulin-potassium (GIK) solution improves recovery of left ventricular function in coronary surgery	132
3-2 (No: 115) Lactic acidosis after cardiac surgery: an association with inotropic support	132
3-3 (No: 112) Acute renal failure after cardiac surgery: toward a common definition?	134
3-4 (No: 137) Is the Cockcroft method reliable for the evaluation of creatinine clearance in cardiac surgery patients?	134
3-5 (No: 138) Acute renal dysfunction after cardiopulmonary bypass is related to a high pre-operative serum ferritin	136
3-6 (No: 015) Effectiveness of fenoldopam for patients undergoing cardiac surgery on cardiopulmonary bypass	136
3-7 (No: 041) Intravenous remifentanyl combined with intrathecal morphine in off-pump coronary artery bypass grafting	138
3-8 (No: 169) Sedation with propofol after paediatric open heart surgery: is it safe?	138
3-9 (No: 175) The effect of caudal morphine analgesia on extubation time in paediatric cardiac surgery	140
3-10 (No: 160) Opioid sparing and side effect profile of three different analgesic techniques for cardiac surgery	140
3-11 (No: 167) Thoracic spinal cord stimulation for treatment of refractory angina pectoris	142
3-12 (No: 032) Epidural analgesia for thoracic surgery comparing two analgesic profiles: continuous ropivacaine plus fentanyl vs. boluses of methadone	142
3-13 (No: 117) Postoperative thoracic epidural analgesia with ropivacaine versus bupivacaine: preliminary results	144
3-14 (No: 068) Analgesic effects of interpleural bupivacaine with fentanyl for postthoracotomy pain	144
3-15 (No: 094) Can the depth of insertion of a left-side double lumen endobronchial tube be predicted?	146

#### Tuesday, May 27 / 13:30 to 15:00 / North Hall

##### Poster Presentation Session 4

##### Outcome & Methods, techniques

4-1 (No: 143) Impact of malignant haematologic diseases on cardiac surgery	150
4-2 (No: 107) Prediction of blood use in a cardiac surgical unit	150
4-3 (No: 090) Economical considerations of aprotinin in complex cardiac surgery	152
4-4 (No: 051) Postoperative outcome of infective endocarditis	152
4-5 (No: 016) Concomitant coronary bypass and carotid endarterectomy or a staged procedure? Adverse neurological outcome	154
4-6 (No: 106) Monitoring acute haemodynamic changes during carotid angioplasty and stenting	154
4-7 (No: 027) Is bispectral EEG analysis a target for hypnosis during cardiac anaesthesia?	156
4-8 (No: 088) Change in cerebral oxygenation during off-pump coronary artery bypass grafting	156
4-9 (No: 065) Age related difference in effect of phenylephrine on femoral and radial artery systolic and pulse pressures	158
4-10 (No: 069) Comparison of cardiac output measurements between non-invasive haemodynamic monitoring by aortic blood flow (ABF) vs. continuous pulse-contour analysis during CABG-operations	158
4-11 (No: 038) End-tidal CO <sub>2</sub> monitoring in perioperative pulmonary blood flow evaluation	160
4-12 (No: 134) Accuracy of the Imagyn PRO2 reflectance pulse oximeter in cyanotic infants requiring cardiac surgery	160
4-13 (No: 039) Comparison of conventional and combined ultrafiltration for paediatric cardiac surgery	162
4-14 (No: 033) The systolic fraction of pulmonary venous flow as a reliable index of wedge pressure	162
4-15 (No: 042) Transoesophageal echo as a monitor of gas bubbles in the aorta, generated during cardiac surgery using cardio-pulmonary bypass	164

## Poster Viewing

1 (No: 007) Impact of shed mediastinal blood re-infusion on patient outcome and reduction of homologous blood transfusion .....	168
2 (No: 018) A comparison of alfentanil and remifentanyl for cardiac anaesthesia in elderly patients .....	168
3 (No: 060) Early aortic valve replacement in patients with active infective endocarditis .....	170
4 (No: 071) Difficult intubation in paediatric cardiac surgery: analysis of four-years experience at Baskent University Hospital .....	170
5 (No: 113) The analysis of CaO <sub>2</sub> and CvO <sub>2</sub> , glucose and lactate brain blood concentration during the CABG procedure .....	172
6 (No: 118) Comparison of haemodynamic effects of sevoflurane and isoflurane during cardiopulmonary bypass .....	172
7 (No: 121) Early outcome in coronary artery bypass graft surgery: comparison of off-pump and conventional CABG .....	174
8 (No: 140) Haemodynamic monitoring by pulse contour cardiac output during epicardial pacemaker implantation: case reports .....	174
9 (No: 142) Direct aortic implantation of anomalous left coronary artery from the pulmonary artery: early survival and late outcome .....	176
10 (No: 176) Safety of percutaneous tracheostomy in critically ill patients after cardiac surgery .....	176
11 (No: 045) The red blood cell antioxidant system during blood transfusion and extracorporeal circulation .....	178
12 (No: 080) A case series of implantation of a new cardiac support device for treatment of cardiac failure: haemodynamic and echocardiographic data .....	178
13 (No: 181) Robotic cardiac surgery: double lumen tube or ArndtM bronchial blocker for one lung ventilation .....	180
14 (No: 182) Bispectral index guided anaesthesia in patients undergoing aortocoronary bypass grafting .....	180