

Amiram Nir, M.D.

Head, Pediatric Cardiology and Adult Congenital Heart Disease Unit
Shaare Zedek Medical Center, Jerusalem, Israel
Chairman of the Israeli Adult Congenital Heart Disease working group
Associate Professor - Hebrew University School of Medicine, Jerusalem

Education and Positioned Held

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|------------|---|
| 1978 -1984 | Faculty of Medicine,
Technion, Israel Institute of Technology,
Haifa, Israel. M.D. |
| 1986 -1991 | Pediatrics residency: Carmel Hospital, Haifa, Israel. |
| 1991-1994 | Fellowship: Pediatric Cardiology, Mayo Clinic,
Rochester, Minnesota, U.S.A. |
| 1992-1993 | Basic research: Cardio-renal Research Laboratory,
headed by John C. Burnett Jr., M.D.
Mayo Clinic, Rochester, Minnesota |
| 1994-2004 | Pediatric cardiologist, department of cardiology
Hadassah University Hospital, Jerusalem, Israel |
| 2004-2009 | Head, Pediatric Cardiology Unit
Shaare Zedek Medical Center, Jerusalem, Israel |
| 2008-2012 | Chairman, The Israeli Association for Pediatric Cardiology |
| 2009 | Visitor, Adult Congenital Heart Disease Unit, Boston
Children's Hospital, Boston, MA, USA |
| 2009-2018 | Head, Adult Congenital Heart Disease Unit
Hadassah University Hospital, Jerusalem, Israel |
| 2018 | Head, Pediatric Cardiology and Adult Congenital Heart
Disease Unit, Shaare Zedek Medical Center |
| 2017-2019 | Chairman, Adult Congenital Heart Disease Working Group,
Israel Heart Society |

MEMBERSHIPS IN MEDICAL SOCIETIES

Israel Medical Association
Israel Society of Cardiology
Israeli Association for Pediatric Cardiology
Association of European Pediatric Cardiology (AEPC)
European Society of Cardiology
Working group on Grown-Up Congenital Heart Disease of the European Society of Cardiology

OTHER ACTIVITIES

2011 Actelion International Advisory Board on pulmonary arterial hypertension associated with congenital heart disease
2011 Organizing committee, 1st Adult Congenital Heart Disease meeting, Tel Hashomer, Israel
2012 Organization of “Pediatric Cardiology Update” conference for pediatricians, Hadassah, Jerusalem, Israel
2015-2018 Topp 2, Tracking Outcome and Practice in Pediatric Pulmonary Hypertension, PI

HONORS

Faculty of Medicine, Technion, Israel Institute of Technology
1978-1980 Dean's list
1982 President's list
Graduation Cum laude

1992 North American Society of Pediatric Exercise Medicine. 7th annual meeting, Miami Beach, Florida.
New investigator award.

1998 Israel Heart Association. H.N. Neufeld award for original research work.

1998 Hadassah Women Zionist Organization of America award for middle level investigators for excellence in research.

1999 The S. Dimson award for research in pediatrics.
The Hebrew University School of Medicine

2001 Distinguished teacher. Hebrew University School of Medicine

2002	Distinguished teacher. Hebrew University School of Medicine
2003	Distinguished teacher. Hebrew University School of Medicine
2004	Distinguished teacher. Hebrew University School of Medicine
2005	Distinguished teacher award for high student grading. Hebrew University School of Medicine
2015	Distinguished teacher award for high student grading. Hebrew University School of Medicine
2016	Distinguished teacher award for high student grading. Hebrew University School of Medicine

BIBLIOGRAPHY

1. Nir A, Sorokin Y, Abramovici H, Theodor E: Pregnancy and primary biliary cirrhosis.
Int J Gynecol Obstet 28:279-282,1989
2. Zelnik N, Nir A, Amit S, Iancu TC: Autonomic seizures in an infant. Unusual cutaneous and cardiac manifestations.
Dev Med Child Neurology 31:817-821,1989
3. Nir A, Weintraub Z, Oliven A, Kelner J, Lurie M. Anatomic evidence of spontaneous intrauterine closure of a ventricular septal defect.
Pediatr Cardiol 11:208-210,1990
4. Nir A, Tamir A, Zelnik N, Iancu TC. Is eye cosmetics a source of lead poisoning?
Isr J Med Sci 28:417-421,1992
5. Nir A, Driscoll JD, Mottram DC, Offord KP, Puga JF, Schaff VH, Danielson KG. Cardiorespiratory response to exercise after the Fontan operation. A serial study.
J Am Col Cardiol 22:216-220,1993
6. Nir A. Intrauterine closure of ventricular septal defects.
Pediatr Cardiol 14: 63,1993
7. Nir A, Driscoll JD, Edwards DW. Intrauterine closure of membranous ventricular septal defects: mechanism of closure in two autopsy specimens.
Pediatr Cardiol 15:33-37,1994
8. Nir A, Clavell AL, Aarhus LL, Heublin DM, Burnett JC, Jr. Acute hypoxia and endogenous renal endothelin.
J Am Soc Nephrol 4:1920-1924,1994
9. Nir A, Beers KW, Clavell AL, Wei CM, Heublein DM, Dousa TP, Burnett JC, Jr. CNP is present in canine renal tubular cells and secreted by cultured opossum kidney cells.
Am J Physiol 267:R1653-R1657,1994
10. Mattingly MT, Brandt RR, Heublein DM, Wei CM, Nir A, Burnett JC, Jr. Presence of C-type natriuretic peptide in human kidney and urine.
Kidney Int 46:744-747,1994
11. Nir A, Tajik AJ, Freeman WK, Seward JB, Offord KB, Edwards WD, Mair DD, Gomez MR. Tuberous sclerosis and cardiac rhabdomyoma.

Am J Cardiol 76:419-421,1995

12. Nir A, Driscoll DJ, Rein AJJT, Burnett JC, Jr. Management of congestive heart failure in infants and children in the nineties (Hebrew).

Harefuah 130:626-629,1996

13. Clavell AL, Mattingly MT, Stevens TL, Nir A, Wright RS, Aarhus LL, Heublein DM, Burnett JC, Jr. Angiotensin converting enzyme inhibition modulates endogenous endothelin in canine thoracic inferior vena caval constriction.

J Clin Invest 97:1286-1292,1996

14. Nir A, Perles Z, Gomori JM, Rein AJJT. Echocardiographic signs for cerebral ischemia.

Pediatr Neurol 17:259-261,1997

15. Rein AJJT, Nadjari M, Bromiker R, Omokhodion SI, Nir A. Detection of an obstructive membrane in the ductus arteriosus of a fetus using high frame rate echocardiography.

Fetal Diagnosis and Therapy 13:250-252,1998

16. Nir A, Rein AJJT, Hasin Y. The natriuretic peptides. Is it time for clinical use? (Hebrew).

Harefuah 136:386-390,1999

17. Rein AJJT, Cohen E, Weiss A, Marks KA, Peleg O, Nir A. Non-invasive external pacing in the newborn.

Pediatric Cardiology 20:290-292,1999

18. Rothschild AR, Nir A, Ergaz Z, Bar Ziv J, Rein AJJT. Agenesis of tibia with ectrodactyly / Gallop-Wolfgang complex associated with congenital heart malformation and additional skeletal abnormalities.

Am J Med Genetics 84:361-364,1999

19. Rein AJJT, Nadjari M, Elchalal U, Nir A. Contraction of the fetal ductus arteriosus induced by diclofenac.

Fetal Diagnosis and Therapy 14:24-25,1999

20. Nir A. Severe Ebstein's anomaly in a neonate.

Journal of the Israel Heart Society 9:36-37,1999

21. Perles Z, Nir A, Cohen E, Bashary A, Engelhard D. Atrio-ventricular block in a toxic child. Do not forget the diphtheria.

Pediatric Cardiology 21:282-283,2000

22. Rein AJJT, Nir A, Nadjary M. The coronary sinus in the fetus. *Ultrasound in Obstet Gynecol* 15:1-6,2000
23. Rass-Rothchild A, Nir A, Gillis R, Rein AJJT. Giant congenital aortic aneurysm with cleft sternum, supraumbilical raphe, and hemangiomatosis: report and review
Am J Med Genetics 90:243-245,2000
24. Rein AJJT, Omokhodion SI, Nir A. The significance of a cardiac murmur as a sole clinical sign in the newborn.
Clin Pediatr 39:511-520,2000
25. Nir A, Zhang DF, Fixler R, Eilam Y, Burnett, JC. Jr. Hasin Y. C-Type natriuretic peptide has a negative inotropic effect on cardiac myocytes.
Eu J Pharmacol 412:195-201,2001
26. Fixler R, Hasin Y, Eilam Y, Zhang, DF, Nir A. Opposing effects of endothelin-1 on C-type natriuretic peptide actions in rat cardiomyocytes.
Eu J Pharmacol 423:95-98,2001
27. Rein AJJT, Levine JC, Nir A. Use of high frame rate imaging and tissue Doppler echocardiography in the diagnosis of fetal ventricular tachycardia.
*J Am Soc Echocardiogr.*14:149-151,2001
28. Beerli M, Haramati Z, Rein AJJT, Nir A. Parental knowledge and understanding of congenital heart disease.
Israel Med Assoc J 3:194-197,2001
29. Ziv G, Specter-Hiber G, Gomori MJ, Mathot I, Rein AJJT, Nir A, Constantini S. Association between increased central nervous pressure and hydrocephalus in children undergoing cardiac catheterization: A prospective study.
Childs Nerv Syst 17:478-82,2001
30. Gozal Y, Gozal D, Nir A, Rein AJJT. Propofol does not modify the hemodynamic status of children with intracardiac shunts undergoing cardiac catheterization.
Pediatr Cardiol, 22:488-90,2001
31. Nir A, Ekstein S, Nadjari M, Raas-Rothchild A, Rein AJJT. Rhabdomyoma in the fetus. Illustration of tumor growth during the second half of gestation.
Pediatr Cardiol,22:515-18,2001

32. Raas-Rothschild A, Shteyer E, Lerer I, Nir A, Granot E, Rein AJJT . A Jagged 1 gene mutation for abdominal coarctation of the Aorta in Alagille syndrome.
Am J Med Gen 112:75-78, 2002
33. Bendayan D, Fink G, Aravot D, Ygla M, Bendov I, Bliden L, Nir A, Kramer MR. Continuous intravenous epoprosterenol in pulmonary hypertension: the Israel experience.
Israel Med Assoc J 4:255-258,2002
34. Rein AJJT, O'Donnell CP, Geva T, Nir A, Perles Z, Hashimoto I, Li X-K, Sahn DJ. Use of tissue velocity imaging in the diagnosis of fetal cardiac arrhythmia.
Circulation 106:1827-33, 2002
35. Gamzu R, Achiron R, Hegesh J, Weiner E, Tepper R, Nir A, Rabinowitz R, Auslander R, Yagel S, Zalel Y, Zimmer E. Evaluating the risk of tuberous sclerosis in cases with prenatal diagnosis of cardiac rhabdomyoma.
Prenat Diagn 22:1044-7,2002
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Fetal Diagn Ther 18:247-51,2003
37. Preminger A, Nir A, Ben Pazi H. Index of Suspicion in the Nursery - Difficult Resuscitation in a Preterm Infant.
NeoReviews 4:369-370,2003
38. Nir A, Bar-Oz B, Perles Z, Brooks R, Korach A, Rein AJJT. N-terminal pro-B-type natriuretic peptide: reference plasma levels from birth to adolescence. Elevated levels at birth and in heart diseases.
Acta Paediatrica 93:603-7,2004
39. Elstein D, Nir A, Klutstein M, Abrahamov A, Zimran A. N-brain natriuretic peptide: correlation with tricuspid insufficiency in Gaucher disease.
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40. Cohen S, Springer C, Perles Z, Rein AJJT, Avital A, Argaman Z, Nir A. Amino-Terminal Pro-Brain-Type Natriuretic Peptide: Heart or Lung Disease in Pediatric Respiratory Distress?
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41. Nir A, Nasser N. Clinical value of NT-proBNP and BNP in pediatric cardiology.
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42. Elstein D, Nir A, Klutstein M, Rudensky B, Zimran A.
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45. Nasser N, Bar-Oz B, Nir A. The natriuretic peptides and heart diseases in infants and children.
J Pediatr 147:248-53,2005
46. Lev-Sagie A, Bar-Oz B, Salpeter L, Hochner-Celnikier D, Arad I, Nir A. Plasma Concentrations of N-Terminal Pro-B-Type Natriuretic Peptide in Pregnant Women near Labor and during Early Puerperium.
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48. Nasser N, Perles Z, Rein AJJT, Nir A. NT-proBNP as a Marker for Persistent Cardiac Disease in Children with History of Dilated Cardiomyopathy and Myocarditis.
Pediatr Cardiol 27:87-90,2006
49. Frishberg Y, Feinstein S, Rinat C, Becker-Cohen R, Lerer I, Ferber B, Nir A. The Heart of Children with Steroid-Resistant Nephrotic Syndrome – Is it all Podocin?
J Am Soc Nephrol 17:227-31, 2006
50. Fried I, Bar-Oz B, Perles Z, Rein AJJT, Zonis Z, Nir A. N-terminal Pro B-type Natriuretic Peptide Levels in Acute versus Chronic Left Ventricular Dysfunction.
J Pediatr 149:28-31, 2006

51. Fried I, Bar-Oz B, Algur N, Fried E, Gavri S, Yatsiv Y, Perles Z, Rein AJJT, Zonis Z, Bass R, Nir A. Comparison of N-terminal Pro-B-Type Natriuretic Peptide Levels in Critically Ill Children with Sepsis Versus Acute Left Ventricular Dysfunction
Pediatrics 118:e1165-8, 2006
52. Becker-Cohen R, Nir A, Rinat C, Feinstein S, Algur N, Farber B, Frishberg Y. Risk factors for cardiovascular disease in children and young adults after renal transplantation
Clin J Am Soc Nephrol 1: 1284-1292, 2006
53. Nir A. ABC's of the natriuretic peptides. Cardiac aspects.
Horm Res 67 (suppl 1):77-80, 2007
54. Rosengarten D, Abrahamov A, Nir A, Farber B, Glaser J, Zimran A, Elstein D. Outcome of ten years' echocardiographic follow-up in children with Gaucher disease.
Eur J Pediatr. 166:549-51,2007
55. Perles Z, Nir A, Gavri S, Rein JJT. Assessment of Fetal Myocardial Performance using Myocardial Deformation Analysis
Am J Cardiol 99:993-996,2007
56. Megged O, Nir A, Kleid D, Schlesinger Y. Quest for the diagnosis - Case 1: a 14-month-old infant with pericarditis - EBV pericarditis
Acta Paediatr 96:764-5,2007
57. Ekstein S, Nir A, Rein AJJT, Perles Z, Bar-Oz B, Salpeter L, Algur N, Weintraub M.
N-Terminal-proB-type natriuretic peptide as a marker for acute anthracycline cardiotoxicity in children
J Pediatric Hematol Oncol 29:440-444, 2007
58. Wand O, Perles Z, Rein AJJT, Algur N, Nir A.
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Isr Med Assoc J 9: 843-846, 2007
59. Hammerman C, Shchors I, Jacobson S, Schimmel MS, Bromiker R, Kaplan M, Nir A.
Ibuprofen vs. Continuous Indomethacin in Premature Neonates with Patent Ductus Arteriosus: Is the Difference in the Mode of Administration?
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60. Becker-Cohen R, Nir A, Ben-Shalom E, Rinat C, Feinstein S, Farber B, Frishberg Y.
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Pediatric Nephrol 23:1545-50, 2008
61. Mavinkurve-Groothuis AMC, Kapusta L, Nir A, Groot-Loonen J. The role of biomarkers in the early detection of anthracycline-induced cardiotoxicity in children: a review of the literature.
Pediatr Hematol Oncol 25:655-64, 2008
62. Nir A, Lindinger A, Rauh M, Bar-Oz B, Laer S, Schwachtgen L, Koch A, Falkenberg J, Mir TS. NT-pro-B-type natriuretic peptide in infants and children: reference values based on combined data from four studies.
Pediatr Cardiol. 30:3-8, 2009
63. Rein AJ, Mevorach D, Perles Z, Gavri S, Nadjari M, Nir A, Elchalal U. Early diagnosis and treatment of atrioventricular block in the fetus exposed to maternal anti-SSA/Ro-SSB/La antibodies: a prospective, observational, fetal kinetocardiogram-based study.
Circulation. 119:1867-72,2009
64. Godfrey M E, Schimmel M S, Hammerman C, Farber B, Glaser J, Nir A
Incidence of Congenital Heart Defects in Very Low Birth Weight and Extremely Low Birth Weight Infants.
Isr. Med. Assoc. J 12:36-8, 2010
65. Joseph L, Nir A, Hammerman C, Goldberg S, Ben Shalom E, Picard E.
N-terminal pro-B-type natriuretic peptide as a marker of broncho-pulmonary dysplasia in premature infants.
Am J Perinatol. 27:381-6, 2010
66. Segal I, Nir A. Rhabdomyoma causing severe left ventricular outflow obstruction in a newborn. A management dilemma
Pediatr Cariol 31:303-5,2010
67. Hammerman C, Shchors I, Schimmel MS, Bromiker R, Kaplan M, Nir A.
NT-proB-type Natriuretic Peptide in Premature Infants with Patent Ductus Arteriosus: A Physiologic Biomarker, but is it Useful as a Clinical Tool?
Pediatr. Cariol 31:62-5, 2010
68. Rinat C, Becker-Cohen R, Nir A, Feinstein S, Shemesh D, Algur N, Ben Shalom E, Farber B, Frishberg Y. A comprehensive study of cardiovascular risk

factors, cardiac function and vascular disease in children with chronic renal failure.

Nephrol Dial Transplant 25:785-93, 2010

69. Perles Z, Nir A, Gavri S, Golender J, Rein AJ. Intracardiac Echogenic Foci Have No Hemodynamic Significance in the Fetus.
Pediatr Cardiol 31:7-10, 2010

70. Meerkind D, Farber B, Nir A. Initial experience and sizing considerations using the three lobed amplatzer ductal occluder.
J Invasive Cardiol 22:190-194, 2010

71. Arad I, Bar-Oz B, Ergaz Z, Nir A, Barak V. Interleukin-6 and N-Terminal Pro-Brain Natriuretic Peptide Cord Blood Levels in Premature Infants: Correlations with Perinatal Variable
Isr Med Assoc J 12: 419-423, 2010

72. Nevo I, Erlichman M, Algur N, Nir A. N-terminal pro B-type natriuretic peptide levels in infants and children with acute non-cardiac diseases.
Isr Med Assoc J 13:420-424, 2011

73. Rinat C, Becker-Cohen R, Nir A, Feinstein S, Algur N, Ben-Shalom E, Farber B, Frishberg Y. B-type natriuretic peptides are reliable markers of cardiac strain in CKD pediatric patients.
Pediatr Nephrol 27:617-25, 2011

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Pediatr Int. 54:627-633, 2012

75. Nir A, Luchner A, Rein AJ. The natriuretic peptides as biomarkers for adults with congenital heart disease.
Biomark Med. 6:827-37, 2012

76. Nir A, Elchalal U, Hammerman C, Rein AJ. Twin Pregnancy in a Patient after the Fontan Operation: Report of a Case.
Congenit Heart Dis. 8:E196-8, 2013

77. Nir A. Is it time to incorporate natriuretic peptide levels into perioperative evaluation of infants with congenital heart disease?
Isr Med Assoc J, 15:245-6, 2013

78. Makhoul IR, Peleg O, Miller B, Bar-Oz B, Kochavi O, Mechoulam H, Mezer E, Ulanovsky I, Smolkin T, Yahalom c, Khoury A, Lorber A, Nir A, Blazer S. Oral propranolol versus placebo for retinopathy of prematurity: A pilot, randomized, double-blind prospective study. Arch Dis Child. 98:565-7, 2013
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80. Ta-Shma A, El-Lahham N, Edvardson S, Stepensky P, Nir A, Perles Z, Gavri S, Golender J, Yaakobi-Simhayoff N, Shaag A, Rein AJ, Elpeleg O. Conotruncal malformations and absent thymus due to a deleterious NKX2-6 mutation. J Med Genet. 51:268-70, 2014
81. Kampel L, Perles Z, Rein AJJT, El-Lahham N, Braun J, Gavri S, Golender J, Nir A. The Outcome of Infants and Children with Heart Muscle Disease: Prognosis in Centers without Heart Transplantation Option. Open Journal of Pediatrics, 4: 34-41, 2014
82. Almagor Y, Eventov-Friedman S, Nir A, Srur A, Saada A. Measurement of troponin-T in dried blood spots and dried plasma spots: A pilot study Journal of Pediatric Biochemistry 4;153–157, 2014
83. Rinat C, Nir A, Frishberg Y. Left ventricular mass and cardiac function in pediatric dialysis patients Progress in Pediatric Cardiology 41;75-82, 2016
84. Nir A, Berkman N. Clinical and Parental Status of Patients with Congenital Heart Disease Associated Pulmonary Arterial Hypertension. Isr Med Assoc J, 19:489-493, 2017
85. Abu-Zahira IA, Nir A. Punch-out lesion following regression of a large left ventricular outflow rhabdomyoma. Cardiol Young 28:153-154, 2018
86. Benderly M, Kalter-Leibovici O, Weitzman D, Blieden L, Buber J, Dadashev A, Mazor-Dray E, Lorber A, Nir A, Yalonetsky S, Razon Y, Chodick G, Hirsch R; Israeli Congenital Heart Disease Research Group. Depression and anxiety are associated with high health care utilization and mortality among adults with congenital heart disease. Int J Cardiol. 2018 (Epub ahead of print)

Chapters in books:

Nir A, Rein AJJT, Driscoll DJ.

Heart Disease in the Child and Cardiogenic Shock. In Hasdai D, Berger PB, Battler A, Holmes DR, Jr. eds: Cardiogenic Shock: Diagnosis and Treatment. Humana Press Totowa, NJ, pp 243-269, 2002

Nir A, Elstein D.

NT-proBNP in pediatric and in congenital heart disease. In Bayes-Genis A, Januzzi JL, Jr. (eds): NT-proBNP as a biomarker in cardiovascular Diseases. Prous Science, Baecelona, pp 207-216, 2008

GRANTS

- 1991 Technion VPR Fund, Dr. Y Rabinowitz
Research Fund: Eye cosmetics as a source of lead poisoning.
PI - A Nir, Co-investigator – T. Iancu

- 1992 National Kidney Foundation of the Upper Midwest, Inc. Role of endothelin-1 in hypoxia induced alteration in renal function.
PI - A Nir, Co-investigator – John C. Burnett, Jr.

- 1993 Pediatrics Research Committee, Mayo Clinic: Rhabdomyoma in tuberous sclerosis complex.
PI - A Nir, Co-investigator – Manuel R. Gomez

- 1994 The Joint Research Fund of the Hebrew University and Hadassah University Hospital: Production and biological actions of C-type natriuretic peptide in cultured cardiac myocytes.
PI - A Nir, Co-investigator – Y. Hasin

- 1996 The Joint Research Fund of the Hebrew University and Hadassah University Hospital: Biological actions of the natriuretic peptides in cultured cardiac myocytes.
PI - A Nir, Co-investigator – Y. Hasin

- 1998 Hadassah Women Zionist Organization of America research grant: The biological actions of the natriuretic peptides upon the heart.
PI – A. Nir

- 2003 Joint Research Fund of the Hebrew University and Hadassah University Hospital. Pro-B-type natriuretic peptide levels in normal and diseased newborns.
PI B Bar-Oz, Co-investigator A Nir
- 2005 Joint Research Fund of the Hebrew University and Shaare Zedek Hospital. N-Terminal Pro-B-type natriuretic peptide as a potential predictor for the response to diuretics in premature infants with chronic lung disease of infancy.
PI: E Picard, Co-investigators: E Bar Shalom, A Nir
- 2006 The Mirsky Grant, Shaare Zedek Medical Center.
B-type Natriuretic Peptide as a Marker for Subtle Cardiac Damage in Patients after Repair of Coarctation of the Aorta
PI: A Nir, Co-investigator N Algur
- 2007 Berman Grant
Molecular characterization of B-type natriuretic peptide in various physiological and disease states.
PI: B Bar-Oz, CI: A. Nir, O Moshel
- 2010 Pulmonary arterial hypertension in congenital heart disease: Registry creation and assessment of incidence and prevalence of patients with Eisenmenger Syndrome in Israel.
PI: A Nir.
Industry (ACTELION Pharmaceuticals Ltd)