

**Application for the following position in
the EAE Board:**

Board member, Councillor



1. Your Identity

Title: M.D.

Family Name(s): Liel-Cohen

First Name(s): Noah

Birth Date: June 9th, 1953

Type of address: Home

Institute/Organisation: Soroka University Medical Center

Department: ECHO Laboratory, Cardiology

Address: 25 Atad St

Post Code/Zip: 84965

City: Omer

State / Province:

Country: ISRAEL

2. General Curriculum Vitae (300 words max)

Medical Career

Medical School: 1976-1982, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel

M.A. Health system management: 2003-2006, The Department for Health Systems Management, Ben Gurion University of the Negev, Beer Sheva, Israel

Internship: 1982-83 Tel-Aviv Medical Center, Ichilov and Rokach Hospitals, Tel Aviv, Israel.

Residency: 1984-85 / 1988-89, Internal Medicine, Dept. of Internal Medicine "A", Soroka Medical Center, Beer Sheva, Israel.

Research fellowship 1986-87 with Dr. PV Halushka, Department of Cell & Molecular Pharmacology & Experimental Therapeutics, The Medical University of South Carolina, Charleston, USA.

Fellowship: Cardiology, 1990-93 Cardiology Institute, Soroka Medical Center, Beer-Sheva, Israel.

Clinical and research fellowship in echocardiography 1996-98 with Dr. Robert A. Levine, Cardiac Ultrasound Laboratory, Massachusetts General Hospital, Boston, USA.

Board Certification

Internal medicine 1990, Cardiology 1993, ECFMG 1986

Coordinator for multi-center clinical trials in cardiology, 1999-2001 Soroka Medical Center, Beer-Sheva, Israel.

Director of the Echocardiography Unit 2000-, Soroka University, Medical Center, Beer-Sheva, Israel.

Scientific and Professional Career

Research in echocardiography mainly in the areas of mitral valve, ischemic mitral regurgitation and assessment of left ventricular function. On going research: Angular displacement derivative method for ultrasound sequence analysis, Evaluation of LV function by 2D strain, Long term advancement of aortic stenosis under age of 50, Rapid pacing as a cause of left ventricular dysfunction in a rat model.

Research students, from medical and engineering are involved.

Establishing the Israeli Echo Research Group, 2006 (members from 12 Israeli Medical Centers)

The Head of of the Israeli Working Group on Echocardiography, Israel Heart Society. Since 2009-

Member of various National Committees: Heart Disease in Women, The National Council for Women's Health. Member of the committee for establishing criteria for the donor heart Health Ministry, Israel.

Awards and grants:

Israel Ministry of Health grant (head scientist), Thromboxane A_2 /prostaglandin H_2 receptors in toxemia of pregnancy 1989-90

Upjohn Postdoctoral Clinical Pharmacology Fellowship, 1986-87 Medical University of South Carolina.

1st Place, Young Investigator Award competition, American College of Cardiology Meeting. 1997 Insights from 3D echocardiography: Design of a new surgical approach for ventricular remodeling to relieve ischemic mitral regurgitation.

KKL Award Research fund, Valvular Heart Disease in the Negev. 2000

The Israel National Institute for Health Policy and Health Services Research, Referrals to Trans-thoracic Echocardiography: Quality, Access and Cost Effects of an "open-access" Policy, 2004-2005

B. G. N. Negev Technologies and applications Ltd, Automatic LV function evaluation from echocardiographic images, 2006-2008.

3. Previous experience(s) in the EAE or ESC or your National Bodies?

The Head of of the Israeli Working Group on Echocardiography, Israel Heart Society. Since 2009- and a prior board member.

4. Publications (please list 10 max)

- *Liel-Cohen N, Guerrero JL, Otsuji Y, Handschumacher MD, Rudski LG, Hunziker PR, Tnabe H, Scherrer-Crosbie M, Sullivan S, Levine RA: Design of a new surgical approach for ventricular remodeling to relieve ischemic mitral regurgitation: insights from 3-dimensional echocardiography. *Circulation* 101:2756-63, 2000
- *Otsuji Y, Handschumacher MD, Liel-Cohen N, Tnabe H, Jiang L, Schwammenthal E, Guerrero JL, Nicholls LA, Vlahakes GJ, Levine RA: Mechanism of ischemic mitral regurgitation with segmental left ventricular dysfunction: three-dimensional echocardiographic studies in models of acute and chronic progressive regurgitation. *J Am Coll Cardiol* 37:641-8, 2001
- *Levine RA, Hung J, Otsuji Y, Messas E, Liel-Cohen N, Nathan N, Handschumacher MD, Guerrero JL, He S, Yoganathan AP, Vlahakes GJ: Mechanistic insights into functional mitral regurgitation. *Curr Cardiol Reports* 4:125-9, 2002
- *Hunziker PR, Imsand C, Keller D, Hess N, Barbosa V, Nietlispach F, Liel-Cohen N, Weyman AE, Pfisterer M, Buser P: Bedside quantification of atherosclerosis severity for cardiovascular risk stratification: a prospective cohort study. *J Am Coll Cardiol* 39:702-9, 2002
- *Codish S, Liel-Cohen N, Rovner M, Sukenik S, Abu-Shakra M. Dobutamine stress echocardiography in women with systemic lupus erythematosus: increased occurrence of left ventricular outflow gradient. *Lupus* 13:101-4, 2004
- *Ben-Ami T, Gilutz H, Porath A, Sosna G, Liel-Cohen N. No gender difference in the clinical management and outcome of unstable angina. *Isr Med Assoc J.* 7:228-32, 2005
- *Ben Gal T, Liel-Cohen N, Admon D, Freimark D, Lavie J, Elami A, Sahar G, Sagie A, Birk E, Cohen J, Ashkenazi T, Batler A, Criteria for the acceptable Heart Donor: Maximizing the use of hearts recovered from potential donors in Israel, *Harefua* 146: 894-9, 2007
- *Perez-Avraham G, Kobal SL, Etzion O, Novack V, Wolak T, Liel-Cohen N, Paran E, Left Ventricular Geometric Abnormality Screening in Hypertensive Patients Using a Hand-carried Ultrasound Device *The Journal of Clinical Hypertension*, 12: 181-6, 2010
- *Liel-Cohen N, Tsadok Y, Beerli R, Lysyansky P, Agmon Y, Feinberg MS, Fehske W, Gilon D, Hay I, Kuperstein R, Leitman M, Rosenmann D, Sagie A, Shimoni S, Vaturi M, Friedman Z, Blondheim DS: A new tool for automatic assessment of segmental wall motion, based on longitudinal 2D strain: A multicenter study by the Israeli Echocardiography Research Group, *Circulation: Cardiovascular Imaging* 3:47-53, 2010
- *Shai I, Spence JD, Schwarzfuchs D, Henkin Y, Parraga G, Rudich A, Fenster A, Mallett C, Liel-Cohen N, Tirosh A, Bolotin A, Thiery J, Fiedler GM, Blüher M, Stumvoll M, Stampfer MJ; DIRECT Group: Dietary intervention to reverse carotid atherosclerosis. *Circulation.* 16; 1200-8, 2010
- *Blondheim DS, Beerli R, Feinberg MS, Vaturi M, Shimoni S, Fehske W, Sagie A, Rosenmann D, Lysyansky P, Deutsch L, Leitman M, Kuperstein R, Hay I, Gilon D, Friedman Z, Agmon Y, Tsadok Y, Liel-Cohen N: Reliability of visual assessment of global and segmental left ventricular function: a multicenter study by the Israeli Echocardiography Research Group. *J Am Soc Echocardiogr.* 23:258-64. 2010

5. Why are you interested in joining the EAE Board (150 words max)?

Appart from the clinical work and research work that are the essence of being a physician, I think that being involved in the echocardiographic community is another important aspect. The main areas that I am interested in promoting is the advance in education of the sonographers (physician, fellow or technician) and standardization of how we do echo studies. The other area is enhancement of the contact between the local echo societies and the EAE and by this contributing to the advancement of the echo profession. Research should be promoted and the ways to help the tired and over occupied echocardiographer are not clear to me yet but I think networking, working within groups and maybe help from the industry could help.