

**CURRICULUM VITA**

<b>NAME</b>	<b>Shai</b>	<b>Efrati</b>	<b>M.D</b>	<b>028490381</b>
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	(First)	(Last)	(Academic Degree)	(ID No.)
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**FACULTY/DEPT.** Sackler School of Medicine, and the Sagol School of Neuroscience, Tel-Aviv University, Israel

**HOSPITAL/DEPT.** **The Institute of Hyperbaric Medicine and Nephrology Division, Assaf- Harofeh Medical Center. Affiliated to Sackler School of Medicine, Tel-Aviv University, Israel.**  
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**EDUCATION**

1994 -2000	Ben Gurion University, Israel	MD Thesis: The predictive value of exercise QRS duration changes for detection post PTCA coronary events
2001-2004	Resident in Department of Internal medicine A', Assaf Harofeh, Medical Center	Excellency in the final (stage B) April 2004
2003	Hyberbaric and Diving Medicine. The Israel Naval Institute, Haifa. Israel	
2005-2007	Resident in Nephrology division, Assaf-Harofeh Medical Center	Excellency in the final exams (Stage A+B)

**ACADEMIC EXPERIENCE**

**Since 2003** - Instructor of Internal Medicine, Sackler School of Medicine. Tel Aviv University.

**Since 2006** - Lecturer in Sackler School of Medicine. Tel Aviv University.

**Since 2011** - Senior Lecturer in Sackler School of Medicine. Tel Aviv University.

**CLINICAL EXPERIENCE**

2001-2004	Resident in Department of Medicine A', Assaf Harofeh Medical Center, Israel
Since 2005	Specialist in Internal Medicine, Assaf-Harofeh Medical Center, Israel
2005-2007	Resident in Department of Nephrology, Assaf-Harofeh Medical Center, Israel
Since 2005	Head of Research & Development unit, Assaf-Harofeh Medical Center, Israel

Since 2008 Specialist in Nephrology, Assaf-Harofeh Medical Center, Israel  
Since 2008 Head of the hyperbaric institute, Assaf-Harofeh Medical Center, Israel  
Since 2008 Chairman of the Ethics Committee for Animal Experimentation in Assaf- Harofeh Medical Center  
Since 2008 Chairman of the Israeli Society for Diving and Hyperbaric Medicine.  
Since Aug 2014 Head of the Nephrology division, Assaf-Harofeh Medical Center

#### ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS AND ABSTRACTS

1999 International dead sea symposium on advance in diagnosis and treatment of cardiac arrhythmias.

**Prognostic value of QRS duration changes during exercise after PTCA to detect future coronary events**

**Efrati S**, Goldfarb B, Ilia R, Cantor A. (Poster)

1999 International dead sea symposium on advance in diagnosis and treatment of cardiac arrhythmias.

**Prognostic value of QRS duration: prediction of cardiac events by exercise testing after acute myocardial infarction.**

**Efrati S**, Goldfarb B, Ilia R, Weinstein JM, Cantor A. (Poster)

2000 European Society of Cardiology Congress, Amsterdam.

**Prognostic value of QRS duration changes during exercise after PTCA to detect future coronary events**

**Efrati S**, Cantor , Goldfarb B, Ilia R. (Oral presentation)

2001 The 48<sup>th</sup> Annual Conference of the Israel Heart Society, Jerusalem.

**Prognostic value of QRS duration changes during exercise after PTCA to detect future coronary events**

**Efrati S**, Cantor A, Goldfarb B, Ilia R. (Oral presentation)

2001 Annual Meeting of the American Society for Clinical Pharmacology & Therapeutics, Orlando.

**Adverse drug events in patients treated with cardiovascular drugs and anticoagulants.**

Zaidenstein R, Eyal S, **Efrati S**, Golik A.

2001 5<sup>th</sup> congress of the European Association for Clinical Pharmacology and Therapeutics. Odense Denmark.

**Angiotensin-converting enzyme inhibitors and survival of hemodialysis patients.**

- Efrati S**, Zaidenstein R, Dishy V, Babrashvili I, Sharist M, Averbukh Z, Weissgarten J, Golik A. (Poster)
- 2002 Congress of the Israeli Society Nephrology and Hypertension. Eilat Israel.  
**Angiotensin-converting enzyme inhibitors and survival of hemodialysis patients.**
- Efrati S**, Zaidenstein R, Dishy V, Babrashvili I, Sharist M, Averbukh Z, Weissgarten J, Golik A. (Oral presentation).
- 2003 Congress of the Israeli Society for Internal Medicine.  
**Prevention of renal functions deterioration in chronic renal failure.**
- Efrati S**, Dishy V, Zaidenstein R, Weissgarten J, Golik A. (Oral Presentation)
- 2003 104<sup>th</sup> Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics. Washington, USA  
**N-Acetylcysteine to Prevent Contrast Induced Nephrotoxicity: Effects on Renal Function, Nitric Oxide Metabolism and Oxidative Stress.**
- Efrati S**, Dishy V, Averbukh M, Blatt A, Krakover R, Weissgarten J, Morrow J. D, Stein C. M, Golik A. (Oral presentation)
- 2003 104<sup>th</sup> Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics. Washington, USA.  
**N-acetylcysteine Ameliorates Lithium Induced Chronic Renal Failure in Rats.**
- Efrati S**, Averbukh M, Berman S, Feldman L, Dishy V, Sandback Y, Weissgarten J, Golik A, Averbukh Z. (Poster)
- 2003 Annual Meeting of the Israeli Society for Clinical Pharmacology and Therapeutics.  
**N-acetylcysteine and the Kidney.**
- Efrati S**, Dishy V, Averbukh M, Averbukh Z, Weissgarten J, Golik A. (Oral Presentation)
- 2004 The 5<sup>th</sup> research fair of the Sackler Faculty of Medicine.  
**N-acetylcysteine and the Kidney.**
- Efrati S**, Dishy V, Averbukh M, Averbukh Z, Weissgarten J, Golik A. (Oral Presentation)
- 2005 Annual meeting of the Israeli Society for Hyperbaric Medicine  
**Hyperbaric Oxygen Therapy, Tissue oxygenation and N-**

**Acetylcysteine in Patients with Diabetic Foot Ulcer.**

**Efrati S.** Gal N, Bar-Haim A, Abu-Hamed R, Averbukh Z, Golik A. (Oral Presentation).

2005 European Renal Association. Istanbul, Turkey.

**Expression of p53 gene, angiotensin-ii and nitric oxide synthesis in renal mesangial cell in a model of malignant hypertension**

**Efrati S.** Goldfinger N, Berman S, Erez-Alon N, Averbukh Z, Golik A, Weissgarten J, Rotter V. (Poster)

2005 European Renal Association. Istanbul, Turkey.

**Apoptosis and proliferation of renal mesangial cells from normal vs p53 knockout mice subjected to a short-term high hydrostatic pressure**

**Efrati S.** Averbukh Z, Berman S, Goldfinger N, Erez-Alon N, Golik A, Rotter V, Weissgarten J (Poster)

2005 6<sup>th</sup> congress of the European Association for Clinical Pharmacology and Therapeutics. Poznan. Polish.

**The effect of Statins vs. Ezetimibe on lipid profile, arterial stiffness.**

**Efrati S.** Averbukh M, Bar-Chaim A, Fygenzo M, Fridenzon L, Dishy V, Weissgarten J, Golik A. (poster)

2006 Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics. Baltimore, Maryland, USA

**The Effect of Simvastatin, Ezetimibe and their Combination on Lipids Profile, Arterial Stiffness and Inflammatory Markers.**

**Efrati S.** Averbukh M, Bar-Chaim A, More A, Abu-Chamad R, Fygenzo M, Fridenzon L, Dishy V, Weissgarten J, Golik A. (Oral presentation)

2006 2006 UHMS Annual Scientific Meeting in Orlando, Florida, USA.

**Tissue oxygenation and N-acetylcysteine in patients with diabetic foot ulcers.**

**Efrati S.** Fishlev G, Berger Y, Bass A, Bar-Haim A, Abu-Hamed R, Fygenzo M, Golik A, Gal N (Oral presentation)

2006 Annual Meeting of the Israeli Society for hypertension. Tel-Aviv, Israel.

**PPAR  $\gamma$  activation inhibits Angiotensin II synthesis, apoptosis and proliferation of mesangial cells from spontaneously hypertensive rats**

**Efrati S.** Berman S, Feldman L, Averbukh Z and Weissgarten J. (Oral presentation)

- 2008 Annual Meeting of the European Society of Nephrology. Stockholm, Sweden.  
**Differential effects of N-acetylcysteine, Theophylline or Bicarbonate on contrast-induced rat renal vasoconstriction**  
Efrati S. Berman S, Ilgiyeav I, Siman-Tov Y, Averbukh Z, Weissgarten J (Poster presentation)
- 2008 The Toronto Hyperbaric Medicine Symposium. Toronto, Canada.  
**The effect of hyperbaric oxygen therapy on patients suffering from chronic neurologic deficiency due to traumatic brain injury or stroke**  
Efrati S. (Oral presentation & Session of open discussion)
- 2009 World congress of Nephrology 2009. International Society of Nephrology and European renal Association, Milano, Italy  
**Anaesthesia-Induced Glucose Elevation Aggravates Acute Kidney Injury Via Impaired Intrarenal Microcirculation, Augmentation Of Apoptosis And Prohibited Cell Proliferation.**  
Efrati S. Berman S, Abu Hamad R, Weissgarten J. (Poster presentation)
- 2009 World congress of Nephrology 2009. International Society of Nephrology and European renal Association, Milano, Italy  
**Effect of ace inhibition on recuperation from ischemia/reperfusion induced renal injury.**  
Efrati S. Berman S, Abu-Hamad R, Weissgarten J. (Poster presentation)
- 2009 Annual meeting of the Israeli society of hypertension, Tel Aviv  
**Hyperglycemia alters renal cell responsiveness to pressure in a model of malignant hypertension.**  
Efrati S. Berman S, Siman Tov Y, Averbukh Z, Weissgarten J
- 2010 European Society of Intensive Care Medicine, Barcelona, Spain  
**Presentation and demonstration of the AnapnoGuard system.**  
Efrati S MD, Dutch I Msc.
- 2010 Israeli Society of Hyperbaric and Diving Medicine, Israel  
**The effect of hyperbaric oxygen therapy for patients with chronic neurological deficiencies due to stroke or traumatic brain injury.**  
Efrati S, MD (Oral presentation)
- 2011 Annual Meeting of the European Society of Nephrology. Prague, Czech Republic.

**Isoflurane confers protection against ischemia-induced renal injury by triggering intra-renal hyperperfusion**

Efrati S., Berman S, Abu Hamad R, Siman-Tov Y, Weissgarten J (Poster presentation)

2011 Annual Meeting of the European Society of Nephrology. Prague, Czech Republic.

**Altered responsiveness to pressure of hyperglycemic podocytes in a model of malignant hypertension.**

Efrati S., Berman S, Abu Hamad R, Siman-Tov Y, Weissgarten J (Poster presentation)

2011 Annual Meeting of the European Society of Nephrology. Prague, Czech Republic.

**Cystatin-C: a sensitive marker of acute kidney injury, or a reprint of GFR fluctuations?**

Efrati S., Berman S, Abu Hamad R, Siman-Tov Y, Weissgarten J (Poster presentation)

2011 Israeli Society of Hyperbaric and Diving Medicine, Israel

**Oxygen toxicity in hyperbaric chamber.**

Efrati S, MD (Oral presentation)

2012 38<sup>th</sup> annual scientific meeting of the European Underwater and Baromedical Society. Belgrade.

**Hyperbaric Oxygen Induces Late Neuroplasticity in Post Stroke Patients**

Efrati S., Fishlev G, Bechor Y, Volkov O, Bergan J, Kliakhandler K, Kamiager I, Friedman M, Ben-Jacob E<sup>4</sup>, Golan H<sup>3</sup> (Oral presentation)

2013 39<sup>th</sup> annual scientific meeting of the European Underwater and Baromedical Society. Reunion, France.

**Hyperbaric oxygen therapy for chronic cognitive impairments due to traumatic brain injury- randomized prospective trial**

Boussi-Gross R, Golan H. Fishlev G, Bechor Y, Volkov O, Bergan J, Friedman M, Ben-Jacob E, Efrati S. (Oral presentation)

2013 39<sup>th</sup> annual scientific meeting of the European Underwater and Baromedical Society. Reunion, France.

**Hyperbaric oxygen ameliorate fibromyalgia symptoms and functional impairment – randomized prospective trial**

- Efrati S, Ablin JN, Bechor Y, Daphna-Tekoah S, Fishlev G, Faran Y, Bergan J, Friedman M, Buskila D (Oral presentation)
- 2013 Canadian Chapter UHMS annual meeting.  
**Hyperbaric Oxygen Therapy & STROKE**  
Efrati S (Key speaker, invited lecture)
- 2014 Annual meeting of the under sea and hyperbaric association (UHMS)  
**Reflection on the neurotherapeutic effect of hyperbaric oxygen therapy**  
Efrati S (Plenary Session, invited lecture)
- 2014 40<sup>th</sup> annual scientific meeting of the European Underwater and Baromedical Society. Germany.  
**Dilemmas in running a hyperbaric research trial.**  
Efrati S (Special symposium, Invited lecture)
- 2014 British Hyperbaric Association Annual Meeting 2014.  
**Hyperbaric oxygen for post stroke patients.**  
Efrati S (Plenary session, Invited lecture)
- 2015 DLD summer Conference, Munich 2015  
**Reverse Aging**  
Efrati S (Invited lecture)
- 2015 TEDx white city(Tel-Aviv), 2015  
**Reverse Aging**  
Efrati S (Invited lecture)
- 2015 2<sup>nd</sup> International conference on hyperbaric oxygen and the brain. Dead see, Israel.  
**Hyperbaric oxygen for post stroke and TBI: Updated clinical review**

**and perspective on patients' selection and optimal protocol.**

**Efrati S** (Invited lecture)

2015

2<sup>nd</sup> International conference on hyperbaric oxygen and the brain. Dead sea, Israel.

**Hyperbaric oxygen for pain syndromes induced by nervous system pathology.**

**Efrati S** (Invited lecture)

## SCIENTIFIC PUBLICATIONS

### ORIGINAL ARTICLES

- B1-1 Zaidenstein R<sup>(PI)</sup>, Eyal S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Akibson L<sup>(c)</sup>, Koren M<sup>(c)</sup>, Nagornov V<sup>(c)</sup>, Golik A<sup>(c)</sup>. Adverse drug events in hospitalized patients treated with cardiovascular drugs and anticoagulants. *Pharmacoepidemiol Drug Saf.* 2002; 11:235-238. (PHARMACOLOGY & PHARMACY 77/205, IF 2.475).
- B1-2 **Efrati S**<sup>(PI)</sup>, Zaidenstein R<sup>(c)</sup>, Dishy V<sup>(c)</sup>, Beberashvili I<sup>(c)</sup>, Sharist M<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Golik A<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. ACE Inhibitors and Survival of Hemodialysis Patients. *Am J Kidney Dis.* 2002; 40:1023-1029. (UROLOGY & NEPHROLOGY 4/63, IF 5.152)
- B1-3 Averbukh Z<sup>(PI)</sup>, Rosenberg R<sup>(c)</sup>, Galperin E<sup>(c)</sup>, Berman S<sup>(T)</sup>, Cohn M<sup>(c)</sup>, Cohen N<sup>(c)</sup>, Modai D<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. Cell-associated magnesium and QT dispersion in hemodialysis patients. *Am J Kidney Dis.* 2003; 41:196-202. (UROLOGY & NEPHROLOGY 4/63, IF 5.152)
- B1-4 **Efrati S**<sup>(PI)</sup>, Cantor A<sup>(c)</sup>, Goldfarb B<sup>(c)</sup>, Iliar<sup>(c)</sup>. Prognostic value of QRS duration changes during exercise after PTCA to detect future coronary events. *Ann Noninvasive Electrocardiol.* 2003; 8:60-67. (CARDIAC & CARDIOVASCULAR SYSTEMS 65/95, IF 1.208)
- B1-5 **Efrati S**<sup>(PI)</sup>, Dishy V<sup>(c)</sup>, Averbukh M<sup>(c)</sup>, Blatt A<sup>(c)</sup>, Krakover R<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Morrow J. D<sup>(c)</sup>, Stein CM<sup>(c)</sup>, Golik A<sup>(c)</sup>. The effect of N-Acetylcysteine on renal function, nitric oxide metabolism and oxidative stress in patients with chronic renal failure undergoing uorony angiography. *Kidney Int.* 2003; 64: 2182-2187. (UROLOGY & NEPHROLOGY 3/63, IF 6.193)
- B1-6 Blatt A<sup>(PI)</sup>, Robinson D<sup>(c)</sup>, Cotter G<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Simantov Y<sup>(c)</sup>, Bar I<sup>(c)</sup>, Kaluski

- E<sup>(c)</sup>, Krakover R<sup>(c)</sup>, Sidenko S<sup>(c)</sup>, Evron Z<sup>(c)</sup>, Lipa L<sup>(c)</sup>, Posternak N<sup>(c)</sup>, Nevo Z<sup>(c)</sup> and Vered Z<sup>(c)</sup>. Improved regional left ventricular function after successful satellite cell grafting in rabbits with myocardial infarction. Eur J Heart Fail. 2003; 5:751-757. (CARDIAC & CARDIOVASCULAR SYSTEMS 18/95, IF 3.706)
- B1-7 Koren-Michowitz MB<sup>(PI)</sup>, Avni Y<sup>(c)</sup>, Michowitz G<sup>(c)</sup>, Moravsky<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Golik A<sup>(c)</sup>. Early onset of hyperkalemia in patients treated with low molecular heparin. Pharmacoepidemiol Drug Saf. 2004; 13:299-302. (PHARMACOLOGY & PHARMACY 105/237, IF 2.527)
- B1-8 Yosefy C<sup>(PI)</sup>, Cantor A<sup>(c)</sup>, Reisin L<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Ilia R<sup>(c)</sup>. The diagnostic value of QRS changes for prediction of coronary artery disease during exercise testing in women: false-positive rates. Coron Artery Dis. 2004; 15: 147-154 (PERIPHERAL VASCULAR DISEASE 42/61, IF 1.527)
- B1-9 Weissgarten J<sup>(c)</sup>, Modai D<sup>(c)</sup>, Berman S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Golik A<sup>(c)</sup>, Cohen N<sup>(c)</sup>, Cohn M<sup>(c)</sup>, Galperin E<sup>(c)</sup>, Averbukh Z<sup>(PI)</sup>. Hypertension but not sodium intake determines progression of renal failure in experimentally uremic rats. Nephron Physiol. 2004; 98: 1-7. (UROLOGY & NEPHROLOGY 22/63, IF 2.528)
- B1-10 Dishy V<sup>(PI)</sup>, Cohen Pour M<sup>(c)</sup>, Feldman L<sup>(c)</sup>, Naftali T<sup>(c)</sup>, Baumer M<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Golik A<sup>(c)</sup>, Horne T<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. The effect of sildenafil on gastric emptying in patients with end-stage renal failure and symptoms of gastroparesis. Clin Pharmacol Ther. 2004; 76:281-286. (PHARMACOLOGY & PHARMACY 11/ 237, IF 6.961)
- B1-11 **Efrati S**<sup>(PI)</sup>, Averbukh M<sup>(c)</sup>, Berman S<sup>(c)</sup>, Feldman L<sup>(c)</sup>, Dishy V<sup>(c)</sup>, Kachko L<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Golik A<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>. N-acetylcysteine ameliorates lithium induced renal failure in rats. Nephrol Dial Transplant. 2005; 20:65-70. (UROLOGY & NEPHROLOGY 13/63, TRANSPLANTATION 7/24, IF 3.306)
- B1-12 Feldman L<sup>(PI)</sup>, **Efrati S**<sup>(c)</sup>, Dishy V<sup>(c)</sup>, Katchko L<sup>(c)</sup>, Berman S<sup>(c)</sup>, Averbukh M<sup>(c)</sup>, Aladjem M<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. N-acetylcysteine ameliorates amphotericin-induced nephropathy in rats. Nephron Physiol. 2005; 99:23-27. (UROLOGY & NEPHROLOGY 22/63, IF 2.528)
- B1-13 Marchaim D<sup>(PI)</sup>, Lazarovitch Z<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Dishy V<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Boldur I<sup>(c)</sup>, Zaidenstein R<sup>(c)</sup>. Serious Consequences to the Use of Cephalosporins as the First Line of Antimicrobial Therapy Administered in Hemodialysis Units. Nephron Clin Pract. 2005; 101:58-64. (UROLOGY & NEPHROLOGY 41/63, IF 1.606)
- B1-14 Weissgarten Y<sup>(PI)</sup>, Berman B<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Rapoport M<sup>(c)</sup>, Modai D<sup>(c)</sup>, Cohn M<sup>(c)</sup>, Aladjem M<sup>(c)</sup>, Galperin E<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>. Control of hypertension with captopril affords better renal protection as compared with irbesartan in salt-loaded uremic rats. Nephron Physiol. 2005; 101:14-20. (UROLOGY & NEPHROLOGY 22/63, IF 2.528)
- B1-15 **Efrati S**<sup>(PI)</sup>, Leonov Y<sup>(c)</sup>, Oron A<sup>(c)</sup>, Siman-Tov Y<sup>(c)</sup>, Averbukh M<sup>(c)</sup>, Lavrushevich A<sup>(c)</sup>, Golik A<sup>(c)</sup>. Optimization of endotracheal tube cuff filling by continuous upper airway carbon dioxide monitoring. Anesth Analg. 2005; 101:1081-1088.

(ANESTHESIOLOGY 6/25, IF 3.083)

- B1-16 Weissgarten J<sup>(PI)</sup>, Berman S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Rapoport M<sup>(c)</sup>, Aladjem M<sup>(c)</sup>, Modai D<sup>(c)</sup>, Golik A<sup>(c)</sup>, Cohen N<sup>(c)</sup>, Galperin E<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>. Renal functional deterioration is not affected by the magnitude of sodium consumption in a normotensive model of moderate renal failure. *Am J Nephrol*. 2005; 25:541-547. (*UROLOGY & NEPHROLOGY 11/63, IF 3.481*)
- B1-17 Weissgarten J<sup>(PI)</sup>, Berman S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Rapoport M<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Feldman L<sup>(c)</sup>. Apoptosis and proliferation of cultured mesangial cells isolated from kidneys of rosiglitazone-treated pregnant diabetic rats. *Nephrol Dial Transplant*. 2006; 21:1198-1204. (*UROLOGY & NEPHROLOGY 13/63, TRANSPLANTATION 7/24, IF 3.306*)
- B1-18 Marchaim D<sup>(PI)</sup>, **Efrati S**<sup>(c)</sup>, Melamed R<sup>(c)</sup>, Gortzak-Uzan L<sup>(c)</sup>, Riesenber K<sup>(c)</sup>, Zaidenstein R<sup>(c)</sup>, Schlaeffer F<sup>(c)</sup>. Clonal variability of group B Streptococcus among different groups of carriers in southern Israel. *Eur J Clin Microbiol Infect Dis*. 2006; 25:443-448. (*MICROBIOLOGY 43/95, INFECTIOUS DISEASES 25/57, IF 2.605*)
- B1-19 Alon I<sup>(PI)</sup>, Berman S<sup>(c)</sup>, Shteinshnaider M<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Gorelik O<sup>(c)</sup>, Almozni-Sarafian D<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Cohen N<sup>(c)</sup>. Total cellular calcium and magnesium content of cultured human peripheral blood mononuclear cells following exposure to antidiabetic drugs. *Acta Diabetol*. 2006; 43:46-51. (*ENDOCRINOLOGY & METABOLISM 83/105, IF 1.549*)
- B1-20 Averbukh Z<sup>(PI)</sup>, Berman S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Manevits E<sup>(c)</sup>, Rosenberg R<sup>(c)</sup>, Malcev E<sup>(c)</sup>, Galperin E<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. Blockade of Renin-Angiotensin System Reduces QT Dispersion and Improves Intracellular Ca/Mg Status in Hemodialysis Patients. *Nephron Clin Pract*. 2006; 104:c176-184. (*UROLOGY & NEPHROLOGY 41/63, IF 1.606*)
- B1-21 **Efrati S**<sup>(PI)</sup>, Bergan J<sup>(c)</sup>, Fishlev G<sup>(c)</sup>, Tishler M<sup>(c)</sup>, Golik A<sup>(c)</sup>, Gall N<sup>(c)</sup>. Hyperbaric oxygen therapy for non-healing vasculitic ulcers. *Clin Exp Dermatol*. 2007; 32:12-17. (*DERMATOLOGY 26/48, IF 1.550*)
- B1-22 Weissgarten J<sup>(PI)</sup>, Berman S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Rapoport M<sup>(c)</sup>, Cohn M<sup>(c)</sup>, Modai D<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>. Apoptosis and proliferation of mesangial cells isolated from kidneys undergoing compensatory growth following contralateral nephrectomy: Role of the renin-angiotensin system. *Med Sci Monit*. 2007; 13:BR16-23. (*MEDICINE, RESEARCH & EXPERIMENTAL 60/93, IF 1.543*)
- B1-23 **Efrati S**<sup>(PI)</sup>, Averbukh M<sup>(c)</sup>, Dishy V<sup>(c)</sup>, Faygenzo M<sup>(c)</sup>, Friedensohn L<sup>(c)</sup>, Golik A<sup>(c)</sup>. The effect of simvastatin, ezetimibe and their combination on the lipid profile, arterial stiffness and inflammatory markers. *Eur J Clin Pharmacol*. 2007; 63:113-121. (*PHARMACOLOGY & PHARMACY 88/237, IF 2.743*)
- B1-24 **Efrati S**<sup>(PI)</sup>, Berman S<sup>(c)</sup>, Siman-Tov Y<sup>(c)</sup>, Lotan R<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Golik A<sup>(c)</sup>. N-acetylcysteine attenuates NSAID-induced rat renal failure by restoring intrarenal prostaglandin synthesis. *Nephrol Dial Transplant*. 2007; 22:1873-1881. (*UROLOGY & NEPHROLOGY 13/63, TRANSPLANTATION 7/24, IF 3.306*)
- B1-25 **Efrati S**<sup>(PI)</sup>, Berman S<sup>(c)</sup>, Goldfinger N<sup>(c)</sup>, Erez N<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Golik A<sup>(c)</sup>, Rotter

- V<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. Enhanced angiotensin II production by renal mesangium is responsible for apoptosis/proliferation of endothelial and epithelial cells in a model of malignant hypertension. *J Hypertens*. 2007; 25:1041-1052. (*PERIPHERAL VASCULAR DISEASE* 8/61, IF 4.988)
- B1-26 Feldman L<sup>(PI)</sup>, **Efrati S**<sup>(c)</sup>, Eviatar E<sup>(c)</sup>, Abramsohn R<sup>(c)</sup>, Yarovoy I<sup>(c)</sup>, Gersch E<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. Gentamicin-induced ototoxicity in hemodialysis patients is ameliorated by N-acetylcysteine. *Kidney Int*. 2007; 72:359-363. (*UROLOGY & NEPHROLOGY* 3/63, IF 6.193)
- B1-27 **Efrati S**<sup>(PI)</sup>, Berman S<sup>(c)</sup>, Ilgiyev I<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. PPAR  $\gamma$  activation inhibits angiotensin II synthesis, apoptosis and proliferation of mesangial cells from spontaneously hypertensive rats. *Nephron Exp Nephrol*. 2007; 106:e107-112. (*UROLOGY & NEPHROLOGY* 31/63, IF 2.012)
- B1-28 Gorelik O<sup>(PI)</sup>, **Efrati S**<sup>(c)</sup>, Berman S<sup>(c)</sup>, Almoznino-Sarafian D<sup>(c)</sup>, Alon I<sup>(c)</sup>, Shteinshnaider M<sup>(c)</sup>, Cohen N<sup>(c)</sup>. Effect of various clinical variables on total intracellular magnesium in hospitalized normomagnesemic diabetic patients before discharge. *Biol Trace Elem Res*. 2007; 120:102-109. (*BIOCHEMISTRY & MOLECULAR BIOLOGY* 240/283, *ENDOCRINOLOGY & METABOLISM* 90/105, IF 1.127)
- B1-29 **Efrati S**<sup>(PI)</sup>, Berman S<sup>(c)</sup>, Chachashvili A, <sup>(c)</sup> Cohen N<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. Rosiglitazone treatment attenuates expression of inflammatory hallmarks in the remaining kidney following contralateral nephrectomy. *Am J Nephrol*. 2008; 28:238-245. (*UROLOGY & NEPHROLOGY* 11/63, IF 3.481)
- B1-30 **Efrati S**<sup>(PI)</sup>, Berman S<sup>(c)</sup>, Aharon GB<sup>(c)</sup>, Siman-Tov Y<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. Application of normobaric hyperoxia therapy for amelioration of haemorrhagic shock-induced acute renal failure. *Nephrol Dial Transplant*. 2008; 23:2213-2222. (*UROLOGY & NEPHROLOGY* 13/63, *TRANSPLANTATION* 7/24, IF 3.306)
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- B1-33 **Efrati S**<sup>(PI)</sup>, Sadetzki S<sup>(c)</sup>, Zaretsky M<sup>(c)</sup>, Kimiagar I<sup>(c)</sup>, Rosenblum R<sup>(c)</sup>, Marchaim D<sup>(c)</sup>, Berman S<sup>(c)</sup>, Bar-Haim A<sup>(c)</sup>, Abu Hamad R<sup>(c)</sup>, Feigenzon M<sup>(c)</sup>, Chetrit A<sup>(c)</sup>, Yassky D<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Bass A<sup>(c)</sup>. Caroid atherosclerotic disease following childhood scalp irradiation. *Atherosclerosis*. 2009; 204:556-560. (*PERIPHERAL VASCULAR DISEASE* 10/61, IF 4.522)

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- B1-38 Gorelik O<sup>(PI)</sup>, Almoznino-Sarafian D<sup>(c)</sup>, Shteinshnaider M<sup>(c)</sup>, Alon I<sup>(c)</sup>, Tzur I<sup>(c)</sup>, Sokolsky I<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Babakin Z<sup>(c)</sup>, Modai D<sup>(c)</sup>, Cohen N<sup>(c)</sup>. Clinical variables affecting survival in patients with decompensated diastolic versus systolic heart failure. Clin Res Cardiol. 2009; 98:224-32. (*CARDIAC & CARDIOVASCULAR SYSTEMS 30/95, IF 2.958*)
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- B1-40 Feldman L<sup>(PI)</sup>, Shani M<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Beberashvili I<sup>(c)</sup>, Baevsky T<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>, Vinker S<sup>(c)</sup>. Association between rosiglitazone use and decline in renal function in patients with type 2 diabetes mellitus. J Nephrol. 2010; 23:350-356. (*UROLOGY & NEPHROLOGY 44/63, IF 1.252*)
- B1-41 Almoznino-Sarafian D<sup>(PI)</sup>, Shteinshnaider M<sup>(c)</sup>, Tzur I<sup>(c)</sup>, Bar-Chaim A<sup>(c)</sup>, Iskhakov E<sup>(c)</sup>, Berman S<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Modai D<sup>(c)</sup>, Cohen N<sup>(c)</sup>, Gorelik O<sup>(c)</sup>. Anemia in diabetic patients at an internal medicine ward: clinical correlates and prognostic significance. Eur J Intern Med. 2010; 21:91-96. (*MEDICINE, GENERAL & INTERNAL 60/133, IF 1.385*)

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- B1-43 Feldman L<sup>(PI)</sup>, Shani M<sup>(c)</sup>, **Efrati S**<sup>(c)</sup>, Beberashvili I<sup>(c)</sup>, Yakov-Hai I<sup>(c)</sup>, Abramov E<sup>(c)</sup>, Sinuani I<sup>(c)</sup>, Rosenberg R<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. N-acetylcysteine improves residual renal function in peritoneal dialysis patients: a pilot study. Perit Dial Int. 2010 Aug 12. (*UROLOGY & NEPHROLOGY* 40/63, IF 1.636)
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- B1-50 **Efrati S**, Berman S, Abu Hamad R, El Nakib R, Chanimov M, Siman-Tov Y, Weissgarten J. Hyperglycaemia, inflammation, RAS activation: three culprits to blame for acute kidney injury emerging in healthy rats during general anaesthesia. Nephrology. 2012 Sep;17(7):591-602. (*UROLOGY & NEPHROLOGY* 38/77, IF 1.864)

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- B1-52 Berman S, Abu Hamad R, **Efrati S**. Mesangial cells are responsible for orchestrating the renal podocyte injury in the context of malignant hypertension. Nephrology. 2013 Apr;18(4):292-8. **(UROLOGY & NEPHROLOGY 38/77, IF 1.864)**
- B1-53 Shilo Y, **Efrati S**, Simon Z, Sella A, Gez E, Fenig E, Wygoda M, Lindner A, Fishlev G, Stav K, Zisman A, Siegel YI, Leibovici D. Hyperbaric oxygen therapy for hemorrhagic radiation cystitis. Isr Med Assoc J. 2013 Feb;15(2):75-8. **(MEDICINE, GENERAL & INTERNAL 93/156, IF 0.903)**
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- B1-56 Feldman L, Tkacheva I, **Efrati S**, Rabin I, Beberashvili I, Gorelik O, Averbukh Z, Shani M. Effect of Arteriovenous Hemodialysis Shunt Location on Cardiac Events in Patients Having Coronary Artery Bypass Graft Using an Internal Thoracic Artery. Ther Apher Dial. 2014 Jan 14. [Epub ahead of print] **(HEMATOLOGY 56/68, UROLOGY & NEPHROLOGY 47/77, IF: 1.532)**
- B1-57 Peleg R K, Fishlev G, Bechor Y, Bergan J, Friedman M, Koren S, Tirosh A, **Efrati S**. Effects of hyperbaric oxygen therapy on blood glucose levels in patients with diabetes mellitus, stroke or traumatic brain injury and healthy volunteers- a prospective, crossover, controlled trial. Diving Hyperb Med. 2013 Dec;43(4):218-21. **(PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH 149/162, IF: 0.607)**
- \* It should be noted that since hyperbaric and diving medicine is a relatively specific speciality, currently there are only few professional scientific journals in this field.*
- B1-58 **Efrati S**, Deutsch I, Weksler N, Gurman GM. Detection of endobronchial intubation by monitoring the CO2 level above the endotracheal cuff. J Clin Monit Comput. 2015 Feb;29(1):19-23 **(ANESTHESIOLOGY 21/29, IF: 1.448)**

- B1-59 Boussi-Gross R, Golan H, Bechor Y, Volkov O, Hoofien D, Ben-Jacob E, **Efrati S.** Improvement of Memory Impairments in Post-Stroke Patients by Hyperbaric Oxygen Therapy. *Neuropsychology*. 2014 Nov 10. [Epub ahead of print] (**NEUROSCIENCES 98/252, PSYCHOLOGY 17/74, IF: 3.425**)
- B1-60 Oron U, Tuby H, Maltz L, Abu-Hamed R, Yaakobi T, Duanis-Barak K, **Efrati S.** Autologous bone-marrow stem cells stimulation reverses post ischemic-reperfusion kidney injury in rats. *American Journal of Nephrology*. 2014;40(5):425-33. (**UROLOGY & NEPHROLOGY 21/77 IF: 2.646**)
- B1-61 Ravona-Springera R, Haratzb S, Tanneb D, Schmeidler J, **Efrati S.** Rosendorffi C, Schnaider Beerid M, Silvermand J. Arterial wall function is associated with cognitive performance primarily in elderly with type 2 diabetes. *Journal of Alzheimer's Disease*, 2015;44(2):687-93. (**NEUROSCIENCES 87/252, IF: 3.612**)
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- B1-64 Doenyas-Barak K, Beberashvili I, Bar-Chaim A, Averbukh Z, Vogel O, **Efrati S.** Estimating daily sodium and potassium excretion by scheduled spot urine collections. *NEPHRON CLIN PRACT*. In press. (**UROLOGY & NEPHROLOGY 42/77, IF: 1.698, Q3**)
- B1-65 **Efrati S.** Golan H, Bechor Y, Faran Y, Tekoah SD, Sekler G, Fishlev G, Ablin JN, Bergan J, Volkov Olga, Friedman Mony, Ben-Jacob E, Buskila D. Hyperbaric Oxygen Therapy Can Diminish Fibromyalgia Syndrome - Prospective Clinical Trial. *PLOS ONE*. 2015 May 26;10(5):e0127012. (**MULTIDISCIPLINARY SCIENCES 8/55, IF: 3.534, Q1**)
- B1-66 Hadanny A, Golan H, Fishlev G, Bechor Y, Volkov O, Suzin G, Ben-Jacob E, **Efrati S.** Hyperbaric oxygen can induce neuroplasticity and improve cognitive function of patients suffering from anoxic brain damage. *RESTORATIVE NEUROLOGY AND NEUROSCIENCE*. *Restor Neurol Neurosci*. 2015 Aug 19;33(4):471-86. (**NEUROSCIENCES 67/252, IF: 4.179, Q2**)
- B1-67 Tal S, Hadanny A, Berkovitz N, Sasson E, Ben-Jacob E, **Efrati S.** Hyperbaric oxygen may induce angiogenesis in patients suffering from prolonged post-concussion syndrome due to traumatic brain injury. *Restor Neurol Neurosci*. 2015 Nov 4;33(6):943-51.

**B3. Review articles and Editorials**

- B3-1 **Efrati S**<sup>(PI)</sup>, Golik A<sup>(c)</sup>, Averbukh M<sup>(c)</sup>, Feldman L<sup>(c)</sup>, Averbukh Z<sup>(c)</sup>, Weissgarten J<sup>(c)</sup>. N-acetylcysteine and the Kidney. Bilingual Journal of Hypertension 2004; 4: 13-17.
- B3-2 **Efrati S**<sup>(PI)</sup>, Deutsch I<sup>(c)</sup>, Antonelli M<sup>(c)</sup>, Hockey PM<sup>(c)</sup>, Rozenblum R<sup>(c)</sup>, Gurman GM<sup>(c)</sup>. Ventilator-associated pneumonia: current status and future ecommendations. J Clin Monit Comput. 2010 Apr;24(2):161-8.
- B3-3 Aronson D, Verbalis JG, Mueller M, Krum H; **Efrati S** as part of the DILIPO investigators. Short- and long-term treatment of dilutional hyponatraemia with satavaptan, a selective arginine vasopressin V2-receptor antagonist: the DILIPO study. Eur J Heart Fail. 2011 Mar;13(3):327-36. (**CARDIAC & CARDIOVASCULAR SYSTEMS 10/125, IF 6.577**)
- B3-4 Goldhaber SZ, Leizorovicz A, Kakkar AK, Haas SK, Merli G, Knabb RM, Weitz JI; **Efrati S**. as part of the ADOPT Trial Investigators. Apixaban versus enoxaparin for thromboprophylaxis in medically ill patients. NEW ENGL J MED. 2011 Dec 8;365(23):2167-77. (**MEDICINE, GENERAL & INTERNAL 1/156, IF 54.420**)
- B3-5 **Efrati S**, Deutsch I, Gurman GM. Endotracheal tube cuff-small important part of a big issue. J Clin Monit Comput. 2012 Feb;26(1):53-60. (**ANESTHESIOLOGY 21/29, IF: 1.448**)
- B3-6 Schulman S, Kearon C, Kakkar AK, Schellong S, Eriksson H, Baanstra D, Kvamme AM, Friedman J, Mismetti P, Goldhaber SZ; RE-MEDY Trial Investigators (**Efrati S**, is part of RE-MEDY investigators); RE-SONATE Trial Investigators. Extended use of dabigatran, warfarin, or placebo in venous thromboembolism. NEW ENGL J MED. 2013 Feb 21;368(8):709-18. (**MEDICINE, GENERAL & INTERNAL 1/156, IF 54.420**)
- B3-7 **Efrati S**, Ben-Jacob E. Reflections on the neurotherapeutic effects of hyperbaric oxygen. Expert Rev Neurother. 2014 Jan 29. (**CLINICAL NEUROLOGY 66/194, PHARMACOLOGY & PHARMACY 90/256, IF: 2.834**)
- B3-8 **Efrati S**, Ben-Jacob E. How and why hyperbaric oxygen therapy can bring new hope for children suffering from cerebral palsy--an editorial perspective. Undersea Hyperb Med. 2014 Mar-Apr;41(2):71-6. (**MARINE & FRESHWATER BIOLOGY 81/103, MEDICINE, RESEARCH & EXPERIMENTAL 105/124, IF: 0.722**)

*\*It should be noted that since hyperbaric and diving medicine is a relatively specific speciality, currently there are only few professional scientific journals in the field*

*(European and American). Undersea Hyperb Med journal has the highest impact factors in those related journals.*

B3-9 Hadanny A, Tal S, Fishlev G, Bechor Y, **Efrati S**. Delayed blood-brain barrier disruption after shallow-water diving demonstrated by magnetic resonance imaging. *Diving Hyperb Med*. 2015 Jun;45(2):116-20. **(PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH 149/162, IF: 0.607)**

*\* It should be noted that since hyperbaric and diving medicine is a relatively specific speciality, currently there are only few professional scientific journals in this field.*

B3-10 Hadanny A, **Efrati S**. Oxygen--a limiting factor for brain recovery. *Crit Care*. 2015 Sep 1;19:307.

B3-11 **Efrati S** as part of ELIXA Investigators. Lixisenatide in Patients with Type 2 Diabetes and Acute Coronary Syndrome. *N Engl J Med*. 2015 Dec 3;373(23):2247-57.

B3-12 Luckman J, Zahavi A, **Efrati S**, Gilad G, Snir M, Michowiz S, Goldenberg-Cohen N. Difficulty in Distinguishing Posterior Reversible Encephalopathy Syndrome, Hypoxic-Ischemic Insult, and Acute Toxic Leukoencephalopathy in Children. *Neuropediatrics*. 2015 Dec 8.

#### MEMBERSHIP IN PROFESSIONAL SOCIETIES

Year	Society (Country)
Since 2005	Israel society for Hyperbaric and Diving medicine. Since 2008 the chairman of this society
Since 2006	Israel Society for Nephrology & Hypertension.
Since 2008	European Society for Nephrology Dialysis and Transplantation
Since 2012	European Underwater & Baromedical Society (EUBS)
Since 2014	Undersea and Hyperbaric Medical Society (UHMS)