

**CURRICULUM VITAE**

NAME Yoram Epstein, PhD ID# 010913077
FACULTY/DEPT Medicine/School of Public Health
HOSPITAL/DEPT Sheba Medical Center
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BIRTH Feb 10, 1949 Israel
MILITARY SERVICE August 8, 1967 – August 12, 1970 (Sgt Maj)
November 16, 1976 – January 1, 2000 (LtC)

EDUCATION

1970-1973 Ben-Gurion University, Beer-Sheba
BSc; Biology
1974-1976 Tel-Aviv University, Faculty of Medicine
MSc; Physiology and Pharmacology
Master's Thesis
The effect of Androgens on Pituitary Responsiveness to Gonadotropin-Releasing Hormone (GnRH).
Supervisors
Prof. B Lunenfeld, Prof. U Lieberman
1981-1985 Tel-Aviv University, Faculty of Medicine
PhD; Physiology and Pharmacology
Doctorial Dissertation
Changes in vasopressin (AVP) content of different brain regions and in the plasma under heat stress, hyperosmolarity and hypovolemia.
Supervisors
Prof. Y Shapiro, Prof. SM Glick

FURTHER STUDIES

1976 IDF Navy, Underwater and Marine Physiology and Medicine
1985-1986 Post Doc. US Army Research Institute of Environmental Medicine, Military Ergonomics Division, Natick, MA, USA
1987 IDF Center of Computing and Information Systems (MAMRAM). Information

System Analysis

1988	IDF High College of Staff and Commanding Officers
1994	IDF Air Force, Aviation Physiology and Medicine
2013	Sheba Medical Center; Good Clinical Practice (GCP)
2014	Open University, Directors

ACADEMIC AND PROFESSIONAL ACTIVITIES AND ACHIEVEMENTS**1. ACTIVE PARTICIPATION IN INTERNATIONAL SCIENTIFIC MEETINGS**

1979	61st American Endocrine Society Annual Meeting. Anaheim, CA, U.S.A.
1979	8th International Congress of Biometeorology. Shefayim, Israel
1982	FASEB Annual Meeting. New Orleans., LA, U. S. A
1983	International Conference on Diet and Nutrition. Tel-Aviv, Israel
1984	34th APS Annual Meeting. Honolulu, HI, U. S. A
1983	24th IUPS Congress. Sydney, Australia
1983	Thermal Physiology Symposium. Sun-Shine Coast, Australia
1984	ACSM Annual Meeting. San-Diego, CA. U. S. A
1985	6th International Symposium of Biochemistry of Exercise. Copenhagen, Denmark
1986	ACSM Annual Meeting. Indianapolis, IN., U. S. A
1987	ACSM Annual Meeting. Las-Vegas, NV., U. S. A
1988	ACSM Annual Meeting. Dallas, TX, U. S. A
1989	The Int. Biochemistry of Exercise Conference. London, Ontario, Canada
1989	The Int. Con. Exercise, Fitness & Health. Toronto, Canada
1989	Binational Meeting Israel Physiological and Pharmacological Society and the Deutsche Physiologische Gesellschaft, Jerusalem, Israel
1989	ACSM Annual Meeting. Baltimore, MD, U. S. A
1989	Thermal Physiology Symposium. Tromsø, Norway
1990	ACSM Annual Meeting. Salt Lake UT, U. S. A
1991	20th International Conference on Chronobiology. Kfar-Hamakabia, Israel
1991	IUPS European regional meeting. Prague, Czech.
1991	11th Congress of the International Ergonomics Association. Paris, France
1992	Int. Conf. on Emergency Civilian Medical Services in Non-Conventional Warfare. Tel-Aviv, Israel.
1992	ACSM Annual Meeting. Dallas, TX, U. S. A

- 1992 The 5th International Conference on Environmental Ergonomics Maastricht, The Netherlands
- 1993 32nd Congress of IUPS, Glasgow, Scotland
- 1993 IUPS Thermal Physiology Commission Symposium, Aberdeen, Scotland
- 1994 ACSM Annual Meeting. Indianapolis IN, U. S. A
- 1994 6th International Conference on Environmental Ergonomics. Montebello, Canada
- 1995 ACSM Annual Meeting. Minneapolis MN, U. S. A
- 1995 Int. Conf. On Dehydration, Rehydration and Exercise in the Heat. Nottingham UK
- 1996 Pharmacology of Thermoregulation. Memphis TN, U.S.A
- 1996 7th Int. Con. of Environmental Ergonomics. Jerusalem, Israel (**Organizer**)
- 1996 Advances in Military Load Carriage. Kingston ON, Canada
- 1997 33rd IUPS Congress, St. Petersburg
- 1997 IUPS Thermal Physiology Commission Symposium, Copenhagen
- 1998 ACSM Annual Meeting. Orlando FL, USA
- 1998 14th Int. Jerusalem Symposium on Sports Medicine. Maale-Hachamisha
- 1998 ICEE8 - The 8th International Conference on Environmental Ergonomics, San Diego, CA, USA
- 1999 Thermal Protection of Man under Hot and Hazardous Conditions. Paris, France
- 1999 XI International Symposium Pharmacology of Thermoregulation. Seville, Spain
- 1999 Biomed "Heat", Evaluation and Control of Warm Working Conditions. Barcelona, Spain
- 2000 ICEE9 - The 9th International Conference on Environmental Ergonomics, Dortmund, Germany (oral presentation + poster)
- 2001 7th Conference International Society Travel Medicine (CISTM7), Innsbruck, Austria (oral presentation)
- 2001 International Thermal Physiology Symposium, Woolongong, Australia (oral presentation + poster)
- 2002 10th International Conference on Environmental Ergonomics (ICEE), Fukuoka, Japan (oral presentation + poster)
- 2003 The 50th Annual Meeting of the ACSM, San Francisco, CA, USA (oral presentation)
- 2004 The 51st Annual Meeting of the ACSM, Indianapolis, IN, USA (oral presentation)
- 2004 The 1st Integrated Symposium on the Physiology and Pharmacology of Thermal Biology and Temperature Regulation. Rhodes, Greece (**Organizer**)
- 2005 The 11th International Conference Environ. Ergo. (ICEE), Ystad, Sweden
- 2005 1st International Congress on Soldiers' Physical Performance. Jyväskylä, Finland (oral presentation)

- 2006 2nd International meeting on physiology and pharmacology of temperature regulation. Phoenix, AZ, USA
- 2006 The 53rd Annual meeting of the ACSM, Denver, CO, USA (poster)
- 2007 EuroHEAT, improving public health responses to extreme events. Bonn, Germany (panel discussion)
- 2007 12th International conference on environmental ergonomics (ICEE). Piran, Slovenia (poster)
- 2007 COST730 MC meeting and WG1 meeting. San Lorenzo, Spain (panel discussion)
- 2008 COST730 MC meeting and WG1 meeting, Saariselka, Finland (panel discussion)
- 2008 The 55th Annual meeting of the ACSM, Indianapolis, IN, USA
- 2008 COST730 MC meeting and WG1 meeting, Eilat, Israel (**Organizer** + panel discussion)
- 2009 COST730 MC meeting and WG1 meeting, Stuttgart, Germany (panel discussion)
- 2009 COST730 MC meeting and WG1 meeting, Geneva, Switzerland (oral presentation)
- 2009 HMF-168 NATO Symposium on soldier in cold environments, Helsinki, Finland
- 2009 13th International conference on environmental ergonomics (ICEE). Boston, MA, USA
- 2009 ISO TC159/SC5/WG1; Ergonomics of physical environment – thermal environments. Cambridge, UK (panel discussion)
- 2010 Consensus Meeting, Exertional Heat Stroke, Capetown, SA, March 2010 (panel discussion)
- 2010 The 57th Annual meeting of the ACSM, Baltimore, MD, USA (poster)
- 2010 ISO TC159/SC5/WG1; Ergonomics of physical environment – thermal environments. Napoli, Italy (panel discussion)
- 2011 2st International Congress on Soldiers' Physical Performance. Jyväskylä, Finland (oral presentation)
- 2011 The 58th Annual Meeting of the ACSM, Denver, CO, USA (poster)
- 2011 14th International conference on environmental ergonomics (ICEE). Nafplio, Greece (keynote speaker + poster)
- 2012 4th International Symposium on Physiology and Pharmacology of Thermoregulation (PPTR). Buzios – Rio de Janeiro, Brazil
- 2012 1st Australian Conference on Physiological and Physical Employment Standards. Canberra, Australia. (Keynote speaker)
- 2013 The 60 Annual Meeting of the ACSM, Indianapolis, IN, USA (poster)
- 2013 Workshop – moving in extreme conditions. Dunedin, NZ Feb. 2013 (Keynote speaker)

- 2013 15th International conference on environmental ergonomics (ICEE).
Qweenstown, New Zealand. (poster)
- 2013 ISO TC159/SC5/WG1; Ergonomics of physical environment – thermal
environments. Qweenstown, New Zealand (panel discussion)
- 2014 The 61st Annual Meeting of the ACSM, Miami, FL, USA (symposium)
- 2014 3rd International Congress on Soldiers' Physical Performance. Boston, MA, USA
(oral presentations)
- 2014 5th International Symposium on Physiology and Pharmacology of
Thermoregulation (PPTR). Skukuza, South Africa (poster)
- 2015 16th International Conference on Environmental Ergonomics (ICEE2015).
Portsmouth, UK. (poster)
- 2016 6th International meeting, Physiology and Pharmacology of Thermoregulation
(PPTR2016). Ljubljana, Slovenia (invited lecture, symposium)
- 2016 63rd Annual Meeting of the American College of Sport Medicine. Boston, MA,
USA (symposium)
- 2017 The 17th International Conference on Environmental Ergonomics (ICEE2017).
Kobe, Japan (chair)
- 2017 4th International Congress on Soldiers' Physical Performance (ICSP2017).
Melbourne, Australia. (invited lecture)
- 2018 International Symposium on Health and Performance during Heat Stress.
Koblenz, Germany (invited keynote lecture)
- 2018 65th Annual Meeting of the ACSM. Minneapolis, MN, USA
- 2018 Physiology and Pharmacology of Temperature regulation (PPTR2018), Split,
Croatia
- 2019 Symposium, UTCI – assessment measure in human bioclimatology – 10 years
of application. Warsaw, Poland (scientific committee)
- 2019 24th Annual Congress, European College of Sport Science (ECSS), Prague,
Czech Republic
- 2019 18th International Conference on Environmental Ergonomics (ICEE).
Amsterdam, The Netherlands
- 2020 5th International Congress on soldiers' physical performance (ICSP2020).
Quebec City, Canada
- 2022 68th Annual Meeting of the ACSM. San Diego, CA, USA
- 2023 28th Annual Congress, European College of Sport Science (ECSS), Paris,
France
- 2023 6th International Conference on Soldier's Physical Performance (CSPP),
London, UK
- 2024 70th Annual Meeting of the ACSM. Boston, MA, USA

2. **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

1975-1985 Israel Endocrine Society
 Since 1977 Israel Society of Physiology and Pharmacology
 1980-1985 Israel Society of Clinical Research
 Since 1981 Israel Ergonomics Society
 1980-1981 Secretary
 1982-1985 Chairman
 Since 1984 American College of Sports Medicine (ACSM); FACSM
 Since 1989 Israel Society of Sports Medicine
 2006-2010 member of the executive committee
 2012 to date member of the executive committee
 Since 1992 International Group on Environmental Ergonomics
 Since 2000 member of the executive committee
 1997-2004 International Commission on Occupational Health (ICOH)
 Since 2011 American Physiological Society (APS)

3. **ACADEMIC NOMINATIONS**

1974-1977	Research assistant	Institute of Endocrinology, Chaim Sheba Medical Center, Tel-Hashomer
Since 1976	Researcher/senior researcher (Environmental Physiology)	Heller Institute of Medical Research, Chaim Sheba Medical Center, Tel-Hashomer
1976-1982	Senior Investigator	IDF Institute of Military Physiology
1977-1999	Lecturer	Academy of Military Medicine
1982-1999	Director	IDF Institute of Military Physiology
1978-1980	Visitor Lecturer	Tel-Aviv University, Department of Geography
1981-1987	Lecturer	Shenkar College of Textile Technology and Fashion
1982	Visitor Lecturer	Tel-Aviv University, Department of Psychology, Human Factors Division
1985-1986	Visiting Scientist	US Army Research Institute of Environmental Medicine, Military Ergonomics Division, Natick, MA, USA
1988	Lecturer	Tel- Aviv University, Sackler Faculty of Medicine

1993	Senior Lecturer (Assistant Professor)	Tel-Aviv University, Sackler Faculty of Medicine
1998	Associate Professor	Tel-Aviv University Sackler Faculty of Medicine (Physiology)
2001-2004	Senior Lecturer	Ariel University Center, Medical Management Department
2001-2011	Head, CME in Sports Medicine	Tel-Aviv University, Sackler Faculty of Medicine School of Continuing Education
2012	Full Professorship	Tel-Aviv University Sackler Faculty of Medicine (Physiology)
2018	Professor Emeritus	Tel-Aviv University
2018-2021	Head, environmental physiology,	Sylvan adams sport institute, Tel Aviv University
Since 2019	Head, graduate program in Exercise Physiology	School of Public Health, Sackler Faculty of Medicine, Tel Aviv University
Since 2020	Professor	Department of Sport-therapy, Faculty of life Sciences, Ono Academic College

4. OTHER ACADEMIC ACTIVITIES

1994-1995	Member, International Advising Committee; writing group	American College of Sports Medicine Position Stand: "Heat and cold illnesses during distance running".
1994-1995	Advisor	Tthe Israeli Olympic sailing team.
1996	Organizing committee (with Y Shapiro DS Moran)	7 th International conference on Environmental Ergonomics (ICEE), Jerusalem, Israel
1999-2001	Scientific Consultant	National Ethic Committee for Animal Experimentation
1999-2004	Chief Scientist	Optonol Ltd., Neve-Ilan, Israel
2004	Organizer (with L.A. Armstrong)	Minisymposium: "International perspective on exertional heatstroke: a 15-year update", 51 st annual meeting, American College of Sports Medicine.
2004	Organizing committee (with Y Shapiro, DS Moran, M Horowitz)	1st integrated symposium on the physiology and pharmacology of temperature regulation (PPTR), Rhodes, Greece
2004	Guest editor	Journal of Thermal Bio;ogy. Special issue: Physiology and Pharmacology of Temperature regulation.
Since 2006	Member	National Healthy People Program

		executive committee (Ministry of Health)
2007	Member	National advisory committee on health impact of heat waves (Ministry of Health)
2007	Advisor	Working group of the European Section of the WHO on Improving Public Health responses to Extreme weather/heat-waves (EuroHEAT project)
2007-2010	Member (Israeli delegate), Management Committee (MC), and a member in WG1	COST (European Cooperation in the field of Science and Technology), Action 730: Universal thermal climate index UTCI to assess the thermal environment of humans (WG1: Thermophysiological modeling and testing)
Since 2009	ISO member (Israel representative),	ISO TC159/SC5/WG1; Ergonomics of physical environment – thermal environments.
2013	Member	Ministry of Health, advisory board on regulating the organization of athletic mass events
2015	Member	Scientific board, Owlytics Healthcare; personal health detection
2017	Member	Scientific and organizing committees; the 8 th Asian-Pacific Congress on Sports Technology (APCST 2017), Tel Aviv Israel
2017	Member	Scientific and organizing committees; 4 th International Congress on Soldiers' Performance (ICSPP 2017), Melbourne Australia
2018-2020	Member	Scientific advisory board, Israel Olympic Committee toward Tokyo2020
Since 2019		Students' Ombudsman, Ariel University
Since 2023	Member	Scientific advisory board, Israel Olympic Committee toward Paris2024

DOCTORAL STUDENTS

1986	A. Polak (M.D.) (with honors) Medicine Pulmonary function tests in Israeli children and young adults. Hebrew University Medical School.
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- 1988 R. Burstein (Ph.D.)
Physiology (in collaboration with Prof. Y Shapiro)
Exercise and glycogen stores effect on glucose metabolism and insulin binding to receptors.
Tel-Aviv University, Sackler School of Medicine.
- 1993 D. Moran (Ph.D.) (with honors)
Physiology (in collaboration with Prof. Y Shapiro)
The effects of metabolic rate, heat stress and solar radiation on the dynamics of heart rate.
Tel-Aviv University, Sackler School of Medicine.
- 1989 E. Leibowitz (M.D.)
Medicine
Heat intolerance in patients with psoriasis.
Hebrew University Medical. School.
- 1991 I. Ashkenazi (M.D.)
Medicine
Glucose polymer fluid ingestion during prolonged exercise in the heat: effects on fluid homeostasis and on fat and glucose metabolism.
Tel-Aviv University, Sackler School of Medicine.
- 2000 Y. Shani (M.D.)
Medicine
Allelic pattern in estrogen receptor's gene in soldiers with stress fractures.
Tel Aviv University, Sackler School of Medicine.
- 2000 R. Shapiro (M.D.)
Medicine
Polymorphic pattern of Vitamin d receptors in soldiers with and without stress fractures.
Ben Gurion University School of Medicine.
- 2006 M. Belokopytov (Ph.D.)
Physiology (in collaboration with Prof. M Belkin)
Neuroprotective immunization of the retina as a laser induced insult.
Tel Aviv University, Sackler School of Medicine.
- 2006 Y. Cohen-Sivan (M.D.)
Medicine (Cum Laude)
Muscle fiber types and the susceptibility for rhabdomyolysis
Technion, Haifa
- 2019 Amir Hadid (PhD)
Biomedical engineering (in collaboration with Prof. A Gefen)
Modeling exercise induced injuries
- 2019 Maayan Lustig (PhD)
(starting) Biomedical engineering (in collaboration with Prof. A Gefen)
Modelling military related injuries (tentative title)

MSc STUDENTS

- 1993 G. Ginot (M.Sc.)

- Physiology
The effect of extreme heat stress on the immune response.
Tel Aviv University, Sackler School of Medicine.
- 1997 M. Tabor (M.Sc.)
Physiology
The effect of single-dosed L-carnitine administration of performance in endurance athletes.
Tel Aviv University, Sackler School of Medicine.
- 1998 A. Stein (M.Sc.)
Physiology
Work efficiency and exercise endurance in morbid obese individuals pre and post weight reduction following gastric bypass.
Tel Aviv University, Sackler School of Medicine.
- 1998 A. Raz (M.Sc.)
Physiology
The effect of active recovery from intense exercise on blood lactate levels.
Tel Aviv University, Sackler School of Medicine.
- 1998 S. Radom (M.Sc.)
Physiology
Heat stress and its effect on performance and the recover from an intense exercise.
Tel Aviv University, Sackler School of Medicine.
- 1998 E. Kadosh (M.Sc.)
Physiology
Cellular and humoral immune response to exercise among active and inactive girls and adult women.
Tel Aviv University, Sackler School of Medicine.
- 1998 Y. Youngerman (M.Sc.)
Physiology
Histological changes in different brain regions during seizures from heat stroke.
Tel Aviv University, Sackler School of Medicine.
- 1999 A. Giladi (M.Sc.)
Physiology
Biomarkers of bone metabolism: bone density and risk factors for osteopenia in adolescent female dancers.
Tel Aviv University, Sackler School of Medicine.
- 2000 Michal Cohen (M.Sc.)
Physiology
Oxygen and its effect on endothelin levels and work capacity in Eisenmenger patients.
Tel Aviv University, Sackler School of Medicine.
- 2002 Maya Cohen (M.Sc.)
Physiology
Changes in RBC membrane deformability and magnesium levels during heat acclimatization.
Tel Aviv University, Sackler School of Medicine.

- 2003 D. Adler (M.Sc.)
Physiology
The comparison between different heat strain indices in the ability to characterize the level of exercise-heat stress.
Tel Aviv University, Sackler School of Medicine.
- 2003 Y. Dror (M.Sc.)
Physiology
The expression of the cytokine TNF α and its receptors in the muscle and fat tissues after exercise in the Psammomys Obesus model.
Tel Aviv University, Sackler School of Medicine.
- 2004 S. Barkan (M.Sc.)
Physiology
Long-term beneficial effects of a combined dietary-behavioral-physical activity intervention for the treatment of childhood obesity.
Tel Aviv University, Sackler School of Medicine.
- 2005 Y. Galili (M.Sc.)
Physiology
Bone quality assessment with QUS technology among young and adolescent athletes from different types of sport.
Tel Aviv University, Sackler School of Medicine.
- 2006 Y. Balakirski (M.SC.)
Physiology
The effect of a nutritional-physical activity school-based intervention on fatness in pre-school children.
Tel Aviv University, Sackler School of Medicine.
- 2011 N. Samash (M.Sc.)
Exercise Physiology
The effect of Tae-Kwon-Do training on the hormonal profile in adolescences.
- 2011 M Stern-Perry (M.SC.)
Biomedical engineering
Experimental model for stress fractures in rats
- 2012 A. Velner (M.Sc.)
Physiology
Does ACE gene affect the adaptation to hypoxia in COPD?
- 2008 S. Ackerman-Laufer (M.Sc.)
Physical Therapy
The relationship between circulating endothelial progenitor cells and functional recovery from recent brain injury of young children.
- 2017 Y. Lahav (M.Sc.)
Physiology
A critical comparison of different methods to assess body composition under field conditions.
- 2018 L. Kerem (M.Sc.)
Physiology
Circulating osteoblast-lineage cells – a novel, simple procedure to screen

	soldiers suspected with stress fractures.
2019	R. Friedman (M.Sc) Biomedical engineering Biomedical modeling of the efficacy of head protection gear. (in collaboration with Prof. A Gefen)
2020	I. Tsadok Biomedical engineering Predicting Body Core Temperature with a Novel Non-Invasive Sensor (in collaboration with Prof. M Scheinowitz)
2022 (starting)	Ori Abulafia Exercise Physiology Elite athlete's blood test – when and what to test? (in collaboration with Prof. Dan Nemet)
2024	Eyal Izak Exercise Physiology Comparison of the kinetics, kinematics, and the metabolic cost of walking with different off-loading devices (in collaboration with Prof. Einat Kodesh, Haifa University)
2023 (starting)	Hiba Najjar The association between physical readiness and basic motor skills to kindergarten children's' academic achievements (in collaboration with Prof. Tan Yanovich, Kibbutizm College and Dr. einat Yanovich, Wingate Academic College)
2024 (starting)	Itay Cohen Evaluating the Physiological-Cognitive-Autonomic Interaction in Relevant Exertion Scenarios for Combatants in a Virtual Reality Environment
2024 (starting)	May Sason Cardiorespiratory Status in patients with Persistent COVID-19 Recovery

GRANTS

1979	I. D. F. Psychomotor function of man exposed to different heat loads.
1979-1980	Ministry of Health Metabolism of glucose in heatstroked dogs.
1979-1981	Ministry of Health Physical fitness in different groups in Israel.
1980-1981	Ministry of Health Heat intolerance in former heatstroke patients.
1980-1981	I. D. F. Heat intolerance.
1981-1983	I. D. F. Auxiliary cooling devices.
1984	Ministry of Defense

- Physiological burden imposed by protective garments.
- 1985-1987 U. S. Army MRDC, USA
Adjustment and validation of the mathematical prediction model for sweat rate, heart rate and body temperature under outdoor conditions.
- 1989 Ministry of Defense
Physiological evaluation of CB protective garments.
- 1989 Schriber Foundation Tel-Aviv University
Predicting heart rate response under various conditions of climates, clothing and physical effort.
- 1988-1990 Ministry of Defense
Glucose polymer electrolyte solution and its effect on energy metabolism and body fluid balance under physical effort in hot climate.
- 1990-1992 Ministry of Defense
Heart rate dynamics under various conditions of metabolic rate, climate and clothing.
- 1991 Ministry of Defense
Microclimate cooling (air vest) for tank crew.
- 1991-1992 Ministry of Defense
Backpack load and its effect on performance.
- 1992-1993 U. S. Army MRDC, USA
Energy balance in military recruits performing intense physical efforts under extreme climatic conditions.
- 1995-1996 Ministry of Health
The effect of extreme heat stress on the immune system.
- 1997 Ministry of Defense
Water and electrolyte balance under exercise-heat stress.
- 2000-2003 Ministry of Defense
The antioxidant status under physical activity.
- 2004-2005 Ministry of Defense
Anoxia and hyperoxia effects on the antioxidant status in pilots.
- 2005-2007 Ministry of Defense
Neuroprotection with synthetic derivative of cannabinoids (HU211) as an adjuvant treatment of heat stroke. (co-PI Prof. M Horowitz, Haddasa Jerusalem) (100,000 NIS)
- 2008 Ministry of Health
Experimental model for stress fractures. (co-PI Prof. A Gefen, Biomedical Engineering Dept.) (100,000 NIS)
- 2008 Shauder Foundation
The relationship between circulating endothelial progenitor cells and functional recovery by exercise from recent brain injury of young children. (co-PI Prof. M Scheinowitz) (25,000 NIS)
- 2010 Slezak super center for cardiac research and medical engineering
Evaluation of mechanical loads acting on blood vessels in the soft tissues of the shoulder while carrying a backpack. (co-PI Prof. A Gefen, Biomedical

- Engineering Dept.) (25,000 NIS)
- 2010-2012 Ministry of Defense
A biomechanical model for stress fractures in human. (co-PI Prof. A Gefen, Biomedical Engineering Dept.) (112,000 NIS)
- 2013 Ministry of Defense
Circulating osteoblast-lineage cells – a novel, simple procedure to screen soldiers suspected with stress fractures. (127,000 NIS)
- 2013 Ministry of Defense
Non-invasive method to monitor body core temperature (90,000 NIS)
- 2013-2014 Ministry of Defense
Modeling the effect of backpack loads on brachial plexus palsy (rucksack palsy). (co-PI Prof. A Gefen, Biomedical Engineering Dept.) (340,000 NIS)
- 2013-2014 Ministry of Defense
Modeling head injuries of minimal lethal weapon. (co-PI Prof. A Gefen, Biomedical Engineering Dept.) (300,000 NIS)
- 2014-2015 Ministry of Defense
Biomechanical modeling of the efficacy of head protection gear. (co-PI Prof. A Gefen, Biomedical Engineering Dept.) (110,000 NIS)
- 2016-2022 Ministry of Defense
Biomechanical modeling of the efficacy of torso protection gear. (co-PI Prof. A Gefen, Biomedical Engineering Dept.) (350,000 NIS)

SCIENTIFIC PUBLICATIONS

BOOKS AND MONOGRAPHS

1. E. Sohar and collaborators
Man and Climate
Keter Publishers, 262 pp., 1980. (Hebrew).
2. Y. Epstein, R. Netzer
The Way Out – The Skill to Survive
MOD Publishers, 358 pp., 1987 (Hebrew).
3. A Gefen, Y Epstein
The mechanobiology and mechanophysiology of military-related injuries
Springer-Verlag, Berlin, 2016

ORIGINAL ARTICLES

1. Y. Epstein, B. Lunenfeld, Z. Kraiem
The effect of testosterone and its 5-alpha-reduced metabolites on pituitary responsiveness to gonadotropin-releasing-hormone (GnRH).
Acta Endocrinol 86:728-732, 1977. (IF= 3.48, 40/116)
2. J.A. Moguilevsky, P. Scacchi, Y. Epstein, B. Lunenfeld
Effects of neonatal androgenization on serum gonadotropin levels of prepubertal and adult male and female rats.
Neuroendocrinology 26:65-71, 1978. (IF=3.27, 46/116)
3. Y. Epstein, R. Udassin, E. Kobylansky, E. Sohar, Y. Shoenfeld
Anthropological and physiological characteristics of the different Jewish ethnic groups in Israel.
S A J Res Sports Phys Educ Recreations 2:5-8, 1979.
4. Y. Epstein, R. Udassin, J. Sack
Serum 3,5,3'-Triiodothyronine and 3,3',5'-Triiodothyronine concentrations during acute heat load.
J Clin Endoc Metab 46:671-678, 1979. (IF=6.50, 13/116)
5. G. Keren, Y. Epstein
The effect of large doses of vitamin C on aerobic and anaerobic capacity.
J Sports Med Phys Fitness 20:145-148, 1980. (IF=0.92, 49/80)
6. Y. Epstein, G. Keren, J. Mosseiev, O. Gasko, S. Yachin
Psychomotor deterioration during exposure to heat.
Aviat Space Environ Med 51:607-610, 1980. (IF=0.85, 86/153)
7. G. Keren, A. Magazanik, Y. Epstein
A comparison of various methods for the determination of VO_{2max} .

- Eur J Appl Physiol 45:117-124, 1980. (IF=2.21, 23/80)
8. A. Magazanik, **Y. Epstein**, R. Udassin, Y. Shapiro, E. Sohar
Tap water, an efficient method for cooling heatstroke.
Aviat Space Environ Med 51:864-867, 1980. (IF=0.85, 86/153)
 9. G. Keren, **Y. Epstein**, A. Ohri, A. Magazanik
Orthostatic responses in heat tolerant and intolerant subjects compared by
three different methods.
Aviat Space Environ Med 51:1205-1208, 1980. (IF=0.85, 86/153)
 10. G. Keren, **Y. Epstein**, A. Magazanik
Temporary heat intolerance in heatstroked patient.
Aviat Space Environ Med 52:116-117, 1981. (IF=0.85, 86/153)
 11. G. Keren, **Y. Epstein**, A. Magazanik
Energy cost of walking and running with backpack load.
Eur J Appl Physiol 46:317-324, 1981. (IF=2.21, 23/80)
 12. **Y. Epstein**, G. Keren, R. Udassin, Y. Shapiro
Way of life as a determinant of physical fitness.
Eur J Appl Physiol 47:1-5, 1981. (IF=2.21, 23/80)
 13. G. Keren, **Y. Epstein**
The effect of pure aerobic training on aerobic and anaerobic capacity.
Brit J Sports Med 15:27-29, 1981. (IF=3.55, 6/80)
 14. H. Ben-Simchon, H. Zur, G. Keren, **Y. Epstein**, Y. Shapiro
Heat tolerance in patients with extensive healed burns.
Plast Recon Surg 67:499-504, 1981. (IF=2.65, 37/188)
 15. N. Lefevre, Z. Kraiem, **Y. Epstein**, B. Lunenfeld, A. Gougeon, A. Thebault, O.
Bounsai-Ehlreich, R. Frydman, E. Paiernik, D. Saltarelli, S. Bailly, E. Milgrom
Inhibin-like activity and steroid content in human follicular fluid during the
preovulatory period.
Int J Fert 26:295-296, 1981. (IF=0.39, 69/77)
 16. **Y. Epstein**, G. Keren, Y. Lerman, A. Shefer
Physiological and psychological adaptation to respiratory protective devices.
Aviat Space Environ Med 53:663, 1982. (IF=0.85, 86/153)
 17. Y. Shapiro, **Y. Epstein**, H. Ben-Simchon, H. Zur
Thermoregulatory responses of patients with extensive healed burns.
J Appl Physiol 53:1019-1022, 1982. (IF=4.24, 2/80)
 18. I. Melamed, Y. Romem, G. Keren, **Y. Epstein**, E. Dolev
March myoglobinemia - A hazard to renal function.
Arch Intern Med 142:1277-1279, 1982. (IF=10.64, 8/153)
 19. **Y. Epstein**, M. Castel, S. Glick, N. Sivan, R. Ravid
Changes in hypothalamic and extra-hypothalamic vasopressin content of water
deprived rats.
Cell Tiss Res 233:99-111, 1983. (IF=2.80, 105/178)
 20. **Y. Epstein**, Y. Shapiro, S. Brill
The role of surface area to mass ratio and work efficiency in heat intolerance.
J Appl Physiol 54:831-836, 1983. (IF=4.24, 2/80)

21. Y. Lerman, A. Shefer, **Y. Epstein**, G. Keren
External inspiratory resistance of protective respiratory devices: Effects on physical performance and respiratory functions.
Am J Ind Med 4:733-740, 1983. (IF=1.75, 61/142)
22. F.M. Abraham, **Y. Epstein**, M. Blumenthal
The scotopic threshold of the human retina during static physical effort.
Ophthalmic Res 16:322-324, 1984. (IF=0.85, 43/56)
23. J. Rosenblum, **Y. Epstein**, Y. Shapiro, E. Sohar
Urban hypothermia.
Harefuah. 106:341-346, 1984.
24. E. Galun, **Y. Epstein**
Serum creatine kinase activity following a 120 km march.
Clin Chim Acta 143:281-283, 1984. (IF=2.39, 6/31)
25. A. Arieli, **Y. Epstein**, S. Brill, M. Winer, Y. Shapiro
Effect on food intake on exercise fatigue in trained and untrained subjects.
Eur J Appl Physiol 54:297-300, 1985. (IF=2.21, 23/80)
26. **Y. Epstein**, Y. Shapiro, S. Brill
A comparison between different auxiliary cooling devices in severe hot-dry climate.
Ergonomics 29:41-48, 1986. (IF=1.38, 14/38)
27. Y. Shapiro, M. Alkan, **Y. Epstein**, F. Newman, A. Magazanik
Increase in rat intestinal permeability to endotoxin during hyperthermia.
Eur J Appl Physiol 55:410-412, 1986. (IF=2.21, 23/80)
28. F. Konikoff, Y. Shoenfeld, A. Magazanik, **Y. Epstein**, Y. Shapiro
Effects of salt loading during exercise in a hot dry climate.
Biomed Pharmacother 40:296-300, 1986. (IF=2.21, 48/106)
29. E. Galun, R. Burstein, E. Assia, I. Tur-Kaspa, J. Rosenblum, **Y. Epstein**
Changes of white blood cell count during prolonged exercise.
Int J Sports Med 8:253-255, 1987. (IF=2.38, 13/80)
30. **Y. Epstein**, L.A. Stroschein, K.B. Pandolf
Predicting metabolic cost of running with and without backpack load.
Eur J Appl Physiol 56:495-500, 1987. (IF=2.21, 23/80)
31. A.J. Young, M.N. Sawka, **Y. Epstein**, B. DeCristofano, K.B. Pandolf
Cooling different body surfaces during upper and lower body exercise.
J Appl Physiol 63:1218-1223, 1987. (IF=4.24, 2/80)
32. G. Stendig-Lindberg, Y. Shapiro, **Y. Epstein**, E. Galun, E. Schonberger, E. Graff, W.E.C. Wacker
Changes in serum magnesium concentration after strenuous exercise.
J Am Coll Nutr 6:35-40, 1987. (IF=1.95, 40/70)
33. **Y. Epstein**, J. Rosenblum, R. Burstein, M.N. Sawka
External load can alter energy cost of prolonged exercise.
Eur J Appl Physiol 57:243-247, 1988. (IF=2.21, 23/80)
34. E. Galun, R. Burstein, I. Tur-Kaspa, E. Assia, **Y. Epstein**
Prediction of physical performance through muscle enzymes activity.
Eur J Appl Physiol 57:597-600, 1988. (IF=2.21, 23/80)

35. E. Assia, **Y. Epstein**, A. Magazanik, Y. Shapiro, E. Sohar
Plasma-cortisol levels in experimental heatstroke in dogs.
Int J Biometeorol 33:85-88, 1989. (IF=1.81, 29/68)
36. E. Assia, **Y. Epstein**, R. Udassin, Y. Shapiro, E. Sohar
Physiological responses to heat and effort and complaints of hyperperspiration.
Harefuah. 116:617-620, 1989.
37. S.R. Muza, W.A. Latzka, **Y. Epstein**, K.B. Pandolf
Load carriage induced alterations of pulmonary function.
Int J Ind Ergo 3:221-227, 1989. (IF=1.31, 17/38)
38. **Y. Epstein**, M. Horowitz, Y. Shapiro
Hypothalamic and extrahypothalamic-limbic system vasopressin concentration
under exposure to hyperosmolarity, hypovolemia and heat stress.
J Thermal Biol 15:177-180, 1990. (IF=1.27, 51/45)
39. **Y. Epstein**, D.S. Seidman, D. Moran, R. Arnon, M. Arad, D. Varssano
Heat exercise performance of pyridostigmine treated subjects wearing chemical
protective clothing.
Aviat Space Environ Med 61:310-313, 1990. (IF=0.85, 86/153)
40. O. Shpilberg, R. Burstein, **Y. Epstein**, A. Sussholtz, R. Getter, A. Rubinstein
Lipid profile in trained subjects undergoing complete food deprivation combined
with prolonged intermittent exercise.
Eur J Appl Physiol 60:305-309, 1990. (IF=2.21, 23/80)
41. R. Burstein, **Y. Epstein**, Y. Shapiro, I. Charuzi, E. Karnieli
The effect of acute exercise on insulin resistance in human obesity.
J Appl Physiol 69:299-304, 1990. (IF=4.24, 2/80)
42. D.S. Seidman, E. Dolev, P.A. Deuster, R. Burstein, R. Arnon, **Y. Epstein**
Androgenic responses to long term physical training in male subjects.
Int J Sports Med 11:421-424, 1990. (IF=2.38, 13/80)
43. **Y. Epstein**, R. Arnon, D. Moran, D.S. Seidman, Y. Danon
Effect of pyridostigmine on exercise-heat responses of men.
Eur J Appl Physiol 61:128-132, 1990. (IF=2.21, 23/80)
44. R. Burstein, O. Shpilberg, A. Rubinstein, N. Bashan, B. Falk, **Y. Epstein**
The effect of prolonged intermittent exercise combined with food deprivation on
plasma metabolites concentration.
Aviat Space Environ Med 62:555-558, 1991. (IF=0.85, 86/153)
45. D.S. Seidman, I. Ashkenazi, R. Arnon, Y. Shapiro, **Y. Epstein**
The effects of glucose polymer beverage ingestion during prolonged outdoor
exercise in the heat.
Med Sci Sports Exerc 23:458-462, 1991. (IJSN: Outstanding contribution).
(IF=4.11, 3/80)
46. P. Froom, I. Shochat, L. Strichman, A. Cohen, **Y. Epstein**
Heat stress on helicopter pilots during ground standby.
Aviat Space Environ Med 62:978-981, 1991. (IF=0.85, 86/153)
47. E. Leibowitz, D.S. Seidman, A. Laor, Y. Shapiro, **Y. Epstein**
Are psoriatic patients at risk of heat intolerance?
Brit J Dermatol 124:439-442, 1991.(IF=4.35, 3/55)

48. J. Attias, D.S. Seidman, A. Laor, J. Alster, **Y. Epstein**
The effect of moderate heat stress on auditory brain stem evoked response in man.
J Thermal Biol 16:249-253, 1991. (IF=1.27, 51/145)
49. M. Arad, **Y. Epstein**, M. Royburt, H. Birkenstat, G. Alpert, J. Shemer
Physiological assessment of the passive children's hood.
Isr J Med Sci 27:643-647, 1991. (IF=0.95, 84/153)
50. M. Arad, **Y. Epstein**, E. Krasner, J. Atsmon
Principles of respiratory protection.
Isr J Med Sci 27:636-642, 1991. (IF=0.95, 84/153)
51. **Y. Epstein**, N. Linder, D. Lubin, R. Gale, J. Gale, B. Reichman
The incubator as a chemical warfare protective device in Neonatal intensive care unit.
Isr J Med Sci 27:648-651, 1991. (IF=0.95, 84/153)
52. R. Burstein, **Y. Epstein**, E. Karnieli, Y. Shapiro
Effect of physical exercise on insulin action and glucose homeostasis.
Harefuah 121:181-184, 1991.
53. E. Galun, I. Tur-Kaspa, E. Assia, R. Burstein, N. Straus, **Y. Epstein**, M. Popuvitzer
Hyponatremia induced by exercise: a 24-hour endurance march study.
J Mine Electrol Metab 17:315-320, 1991.
54. M. Horowitz, **Y. Epstein**, Y. Shapiro
Vasopressin in thermoregulation-competitive demands: experimental evidence and theoretical considerations.
Physiol Res 41:41-48, 1992. (IF=1.65, 52/78)
55. M. Arad, D. Varssano, R. Arnon, A. Vazina, **Y. Epstein**
Effect of heat exercise stress, NBC clothing and pyridostigmine treatment on psychomotor and subjective measures of performance.
Mil Med 157:210-214, 1992. (IF=0.77, 89/153)
56. R. Burstein, D.S. Seidman, J. Alter, D. Moran, O. Shpilberg, J. Shemer, Y. Shapiro, **Y. Epstein**
Glucose polymer solutions and prolonged exertion in the heat.
Harefuah 122:695-698, 1992.
57. M. Arad, R. Heruti, E. Shaham, J. Atsmon, **Y. Epstein**
The effects of active air supply to the respiratory protective device on respiration parameters during rest and exercise.
Chest 102:1800-1804, 1992. (IF=6.52, 3/46)
58. R. Burstein, A. Zissholtz, Y. Zick-Bachar, **Y. Epstein**, Y. Shapiro, E. Karnieli
Glucose uptake by obese rats' adipocytes: Effects of one bout of acute exercise.
Can J Physiol Pharmacol 70:1473-1476, 1992. (IF=1.85, 48/78)
59. R. Burstein, A. Hourvitz, **Y. Epstein**, Z. Dvir, D. Moran, J. Alter, J. Shemer, A. Shalev, E. Galun
On the relation between short term antibiotic treatments and fatigue, in healthy individuals.
Eur J Appl Physiol 66:372-375, 1993. (IF=2.21, 23/80)

60. M. Royburt, Y. Epstein, Z. Solomon, J. Shemer
Long term psychological and physiological effects of heat stroke.
Physiol Behav 54:265-267, 1993. (IF=2.89, 18/48)
61. R. Burstein, D.S. Seidman, J. Alter, D. Moran, O. Shpilberg, J. Shemer, M. Winner, Y. Epstein
Glucose polymer ingestion - effect on fluid balance and glycemic state during a four-day march.
Med Sci Sports Exerc 26:360-364, 1994. (IJSN: Outstanding contribution).
(IF=4.11, 3/80)
62. D. Moran, Y. Shapiro, Y. Epstein, R. Burstein, L. Stroschein, K.B. Pandolf
Validation and adjustment of mathematical prediction model for human rectal temperature responses to outdoor environmental conditions.
Ergonomics 38:1011-1018, 1995. (IF=1.38, 14/38)
63. Y. Shapiro, D. Moran, Y. Epstein, L. Stroschein, K.B. Pandolf
Validation and adjustment of mathematical prediction model for human sweat rate responses to outdoor environmental conditions.
Ergonomics 38:981-986, 1995. (IF=1.38, 14/38)
64. D. Moran, Y. Epstein, A. Laor, A. Vitalis, Y. Shapiro
Predicting heart rate response to various metabolic rates, environment and clothing.
J Appl Physiol 78:318-322, 1995. (If=4.24, 2/80)
65. R. Burstein, Y. Epstein, I. Charuzi, A. Sussholtz, E. Karnieli, Y. Shapiro
Glucose utilization in morbidly obese subjects before and after weight loss by gastric bypass operation.
Int J Obesity 19:558-561, 1995. (IF=5.13, 4/70)
66. D. Moran, Y. Epstein, G. Keren, A. Laor, J. Sherez, Y. Shapiro
Calculation of mean arterial pressure during exercise as a function of heart rate.
Appl Hum Sci 14:293-295, 1995.
67. R. Burstein, D. Moran, B. Lev, M. Winner, Y. Epstein
Energy balance in soldiers on infantry assignments under cold weather conditions.
Int Rev Armed For Med Ser 68:193-200, 1995.
68. D. Moran, Y. Shapiro, U. Meiri, A. Laor, Y. Epstein, M. Horowitz
Exercise in the heat: individual impacts of heat-acclimation and exercise training on CV performance.
J Thermal Biol 21:171-181, 1996. (IF=1.27, 51/145)
69. R. Burstein, G. Zeilig, M. Royburt, Y. Epstein, A. Ohry
Insulin resistance in paraplegics - effect on one bout of acute exercise.
Int. J. Sports. Med. 17:272-276, 1996. (IF=2.38, 13/80)
70. R. Burstein, A.W. Cowrad, E.W. Askew, K. Carmel, C. Irving, O. Shpilberg, D. Moran, A. Pikarski, G. Ginot, M. Sayer, R. Golan, Y. Epstein
Energy expenditure variations in soldiers performing military activities under cold and hot climate conditions.
Mil Med 161:750-754, 1996. (IF=0.77, 89/153)
71. R. Burstein, D.S. Seidman, D. Zemer, O. Shpilberg, R. Arnon, Y. Epstein, M. Pras

- Chronic colchicine treatment does not impair glucose tolerance in familial Mediterranean fever patients.
Eur J Clin Pharmacol 52:27-30, 1997. (IF=3.03, 77/252)
72. I. Ashkenazi, **Y. Epstein**
Alterations in plasma volume and protein during and after a continuous 110km march with 20kg backpack load.
Mil Med 163:687-691,1998. (IF=0.77, 89/153)
 73. **Y. Epstein**, D. Moran, Y. Shapiro, E. Sohar, J. Shemer
Exertional heat stroke - a case series.
Med Sci Sports Exerc 31:224-228, 1999. (IF=4.11, 3/80, CIT=105)
 74. D. Moran, **Y. Epstein**, M. Wiener, M. Horowitz
Dantrolene and recovery from heat stroke.
Aviat Space Environ Med 70:987-9, 1999. (IF=0.85, 86/153, CIT=13)
 75. I. Amirav, **Y. Epstein**, A.S. Luder
Physiological and practical evaluation of a biological/chemical protective device for infants.
Mil Med 165:663-666, 2000. (IF=0.77, 89/153, CIT=)
 76. H. Hermesh, R. Shilo, **Y. Epstein**, H. Manaim, A. Weizman, H. Munitz
Heat intolerance in chronic schizophrenic patients maintained on antipsychotic drugs.
Am J Psych 157:1327-1329, 2000. (IF=12.76, 2/153, CIT=38)
 77. A. Frank, M. Belokopytov, Y. Shapiro, **Y. Epstein**
The cumulative heat strain index - a novel approach to assess physiological strain to exercise-heat stress.
Eur J Appl Physiol 84:527-532, 2001. (IF=2.21, 23/80, CIT=19)
 78. A. Frank, M. Belokopytov, D. Moran, Y. Shapiro, **Y. Epstein**
Changes in heart rate variability following acclimation to heat.
J Basic Clin Physiol Pharmacol 12:19-33, 2001. (CIT=8)
 79. R. Shiloh, A. Weizman, **Y. Epstein**, S.L. Rosenberg, A. Valevski, P. Dorfman-Etrog, N. Wiezer, N. Katz, H. Munitz, H. Hermesh
Abnormal thermoregulation in drug-free male schizophrenia patients.
Eur Neuropsychopharmacol 11:285-288, 2001. (IF=4.20, 30/185, CIT=26)
 80. D.S. Moran, Y. Heled, Y. Shani, **Y. Epstein**
Hypothermia and local cold injuries in combat and non-combat situations.
Aviat Space Environ Med 74:281-284, 2003. (IF=0.85, 86/153, CIT=17)
 81. S. Chevion, D.S. Moran, Y. Heled, Y. Shani, G. Regev, B. Abbou, E. Berenshtein, E.R. Stadtman, **Y. Epstein**
Plasma antioxidants status and cell injury following severe physical exercise.
Proc Nat Acad Sci 100:5119-5123, 2003. (IF=9.77, 3/59, CIT=170)
 82. J. Nyska, B. Glovinsky, M. Belkin, **Y. Epstein**
Biocompatibility of the ExPRESS miniature glaucoma implant.
J Glaucoma 12:275-280, 2003. (IF=1.53, 26/56, CIT=58)
 83. S. Luria, S. Givoni, Y. Heled, B. Tadmor, A. Khanin, **Y. Epstein**
Evaluation of CO2 accumulation in respiratory protective devices.
Mil Med 169:121-124, 2004. (IF=0.77, 89/153, CIT=1)

84. Y. Heled, Y. Epstein, D.S. Moran
Heat strain attenuation while wearing NBC clothing: dry-ice vest compared to water spray.
Aviat Space Environ Med 75:391-296, 2004. (IF=0.85, 86/153, CIT=20))
85. E. Hadad, Z. Ben-Ari, Y. Heled, D.S. Moran, Y. Shani, Y. Epstein
Liver transplantation in exertional heat stroke: a medical dilemma.
Intensive Care Med 30:1474-1478, 2004. (IF=4.50, 3/23, CIT=27)
86. M. Rav-Acha, E. Hadad, Y. Epstein, Y. Heled, D.S. Moran
Fatal Exertional Heat Stroke: A Case Series.
Am J Med Sci 328:84-87, 2004. (If=1.26, 70/153, CIT=34)
87. O. Inbar, N. Morris, Y. Epstein, G. Gass
Comparison of thermoregulatory responses to exercise in dry heat among prepubertal boys, young adults and older males.
Exp Physiol 89:691-700, 2004. (IF=3.35, 21/78, CIT=60)
88. D. Nemet, S. Barkan, Y. Epstein, O. Friedland, G. Kowen, A. Eliakim
Short and long term beneficial effects of a combined dietary behavioral physical activity intervention for the treatment of childhood obesity.
Pediatrics 115:e443-e449, 2005. (IF=5.39, 21/78, CIT=277)
89. Y. Heled, Y. Dror, D.S. Moran, T. Rosenzweig, S.R. Sampson, Y. Epstein, J. Meyerovitch
Physical exercise increases the expression of TNF α and GLUT 1 in muscle tissue of diabetes prone *Psammomys obesus*
Life Sciences 77:2977-2985, 2005. (IF=2.45, 42/106, CIT=6)
90. D. Merkel, M. Huerta, I. Grotto, D. Blum, O. Tal, E. Rachmilewitz, E. Fibach, Y. Epstein, O. Shpilberg
Prevalence of iron deficiency and anemia among strenuously trained adolescents.
J Adolesc Health 37:220-223, 2005. (IF=3.12, 8/109, CIT=28)
91. N. Orr, E. Klement, D. Gillis, T. Sela, R. Kayouf, Derazne E, I. Grotto, R. Balicer, M. Huerta, L. Aviram, R. Ambar, Y. Epstein, Y. Heled, D. Cohen
Long-term immunity in young adults after a single dose of inactivated hepatitis a vaccines.
Vaccine 24:4328-4332, 2006. (IF=3.57, 25/106, CIT=15)
92. G. Ben-Shlomo, M. Belokopytov, M. Rosner, G. Dubinsky, M. Belkin, Y. Epstein, R. Ofri
Functional deficits resulting from laser-induced damage in the rat retina.
Laser Surg Med 38:689-694, 2006. (IF=3.00, 25/188, CIT=18)
93. Moran D.S., Y. Epstein
Evaluation of the environmental stress index (ESI) for hot/dry and hot/wet climates.
Ind Health 44:399-403, 2006. (IF=0.95, 149/193, CIT=14)
94. A. Eliakim, D. Nemet, Y. Balakirski, Y. Epstein
The effects of a nutritional-physical activity school-based intervention on fatness and fitness in pre-school children.
J Pediatric Endocrinol Metab 20:711-718, 2007. (IF=0.89, 83/109, CIT=45)

95. D.S. Moram, T. Erlich, Y. Epstein
The heat tolerance test: an efficient screening tool for evaluating susceptibility to heat.
J Sport Rehab 16:215-221,2007. (CIT=13)
96. M. Belokopytov, G. Ben-Shlomo, M. Rosner, M. Belkin, G. Dubinski, Y. Epstein, R. Ofri
Functional efficacy of glatiramer acetate treatment for laser-induced retinal damage in rats.
Laser Surg Med 40:196-201, 2008. (IF=3.00, 25/188, CIT=18)
97. G.A. Khomenok, A. Hadid, O. Preiss-Bloom, R. Yanovich, T. Erlich, O. Ron-Tal, A. Peled, Y. Epstein, D.S. Moran.
Hand immersion in cold water alleviating physiological strain and increasing tolerance to uncompensable heat stress.
Eur J Appl Physiol 104:303-309, 2008. (IF=2.21, 23/80, CIT=7)
98. R. Yanovitch, R. Evans, E. Israeli, N. Constantini, N. Sharvit, D. Merkel, Y. Epstein, D.S. Moran.
Differences in physical fitness of male and female recruits in gender-integrated army basic training.
Med Sci Sports Exerc 40:S654-S659, 2008. (IF=4.11, 3/80, CIT=8)
99. Merkel D, Huerta M, Grotto I, Blum D, Rachmilewitz E, Fibach E, Epstein Y, Shpilberg O.
Incidence of anemia and iron deficiency in strenuously trained adolescents: results of a longitudinal follow-up study.
J Adolesc Health 45:286-291, 2009. (IF=3.12, 8/109, CIT=11)
100. Belokopytov M, Belkin M, Dubinsky G, Epstein Y, Rosner M.
Development and recovery of laser-induced retinal lesion in rats.
Retina 30:662-670, 2010 (IF=2.77, 13/56, CIT=12)
101. Magal M, Dumke CL, Urbiztondo ZG, Cavill MJ, Triplett NT, Quindry JC, McBride JM, Epstein Y.
Relationship between serum creatine kinase activity following exercise-induced muscle damage and muscle fibre composition.
J Sports Sci 13:1-10, 2010. (IF=1.87, 31/80, CIT=8)
102. Y Epstein, DS Moran, Y Heled, R Kobo, M Lewkowicz, J Levitan
Acclimation to heat interpreted from the analysis of heart-rate-variability by the multipole method.
J Basic Clin Physiol Pharmacol 21:315-323, 2010. (CIT=1)
103. I Novikov, O Kalter-Leibovici, A Chitrit, N Stav, Y Epstein
Weather conditions and visits to the medical wing of emergency rooms during the warm season in Israel: a predictive model.
Int J Biometeorol, 56:121-127; 2011. (IF=1.81, 29/68, CIT=5)
104. M Stern-Perry, A. Gefen, N. Shabshin, Y. Epstein
An experimentally tested computer modeling of stress fractures in rats.
J Appl Physiol 110:909-916, 2011. (IF=4.24, 2/80, CIT=1)
105. K Blazejczyk, Y Epstein, G Jendritzky, H Staiger, B Tinz
Comparison of UTCI to selected thermal indices
Int J Biometeorol 2011 [Epub ahead of print] (IF=1.81, 29/68, CIT=13)

106. **Y Epstein**, WO Roberts
The physiology of heat stroke – an integrative view of the final common pathway.
Scand J Sports Med 21:742-748; 2011. (IF=2.80, 8/80, CIT=14)
107. I. Schnell, O. Potchter, Y. Yaakov, Y. **Epstein**, S. Brener, H. Hermesh.
Urban daily life routines and human exposure to environmental discomfort.
Environ Monit Assess. 2011; 184:4575-4590 (IF=1.44, 106/193, CIT=2)
108. A. Hadid, **Y. Epstein**, N. Shabshin, A. Gefen.
Modeling mechanical strains and stresses in soft tissues of the shoulder during load carriage based on load-bearing open-MRI. J Appl Physiol. 2012; 112:597-606. (Corresponding author) (IF=4.24, 2/80, CIT=1)
109. A. Druyan, C. Makranz, D. Moran, R. Yanovich, **Y. Epstein**, Y. Heled.
Heat tolerance in women - reconsidering the criteria.
Aviat Space Environ Med. 2012; 83:58-60. (IF=0.85, 86/153, CIT=4)
110. Y. Heled, A. Peled, R. Yanovich, E. Shargal, R. Pilz-Burstein, **Y. Epstein**, DS. Moran.
Heat acclimation and performance in hypoxic conditions.
Aviat Space Environ Med. 2012; 83:649-653. (IF=0.85, 86/153, CIT=1)
111. **Y. Epstein**, Y. Heled, I. Ketko, J. Muginshtein, R. Yanovich, A. Druyan, DS. Moran.
The Effect of Air Permeability Characteristics of Protective Garments on the Induced Physiological Strain under Exercise-Heat Stress.
Ann Occup Hyg. 2013; Feb 1. [Epub ahead of print] (IF=1.95 , 51/83, CIT=0)
112. I. Schnell, O. Potchter, **Y. Epstein**, Y. Yaakov, H. Hermesh, S. Brenner, E. Tirosh
The effects of exposure to environmental factors on Heart Rate Variability: An ecological perspective.
Environ Pollut. 2013; 183:7-13.
113. Druyan A, Ketko I, Yanovich R, **Epstein Y**, Heled Y.
Refining the distinction between heat tolerant and intolerant individuals during a heat tolerance test.
J Thermal biol 2013; 38:539-542
114. Bruchim Y, Aroch I, Eliav A, Abbas A, Frank I, Kelmer E, Codner C, Segev G, **Epstein Y**, Horowitz M.
Two years of combined high-intensity physical training and heat acclimatization affect lymphocyte and serum HSP70 in purebred military working dogs.
J Appl Physiol 117:112-118, 2014
115. Ketko I, Eliyahu U, **Epstein Y**, Heled Y.
The thermal-circulatory ratio (TCR). An index to evaluate the tolerance to heat.
Temperature 1:101-105, 2014
116. Ozana N, Arbel N, Beiderman Y, Mico V, Sanz M, Garcia J, Anand A, Javidi B, **Epstein Y**, Zalevsky Z.
Improved noncontact optical sensor for detection of glucose concentration and indication of dehydration level.
Biomed Opt Express. 5(6):1926-40, 2014.

117. Schnell I, Potchter O, Yaakov Y, **Epstein Y**.
Human exposure to environmental health concern by types of urban environment: The case of Tel Aviv.
Environ Pollut. 208 (pt A):58-65, 2015.
118. Hadid A, Belzer N, Shabshin N, **Epstein Y**, Gefen A.
Deformations in the shoulder tissues during load carriage: a computational model.
J Strength Cond Res. (Suppl 11):S144-148, 2015.
119. Hadid A, Belzer N, Shabshin N, Zeilig G, Gefen A, **Epstein Y**.
The effect of mechanical strains in soft tissues of the shoulder during load carriage.
J Biomech. 48:4160-4165, 2015.
120. Ketko I, Druyan A, Yanovich R, **Epstein Y**, Heled Y.
Return to duty/play after exertional heat injury: do we have all the answers? A lesson from two case studies.
Disaster Mil Med 1:18, 2015.
121. Kjertakov M, Dalip M, Hristovski R, **Epstein Y**.
Prediction of lactate threshold using the modified Conconi test in distance runners.
Physiol Int 103:262-270, 2016.
122. Adato B, Dubnov-Raz G, Gips G, Heled Y, **Epstein Y**.
Fatal heat stroke in children found in parked cars: autopsy findings.
Eur J Pediatr 175:1249–1252, 2016.
123. Mazgakor S, Ketko I, Yanovich R, Heled Y, **Epstein Y**.
Measuring core body temperature with a non-invasive sensor.
J Thermal Biol 66:17-20, 2017.
124. Hadid A, Katz I, Haker T, Zeilig G, Defrin R, **Epstein Y**, Gefen A. Effect of Load Carriage on Upper Limb Performance. Med Sci Sports Exerc. 49:1006-1014, 2017.
125. Schermann H, Heled Y, Fleischmann C, Ketko I, Schiffmann N, **Epstein Y**, Yanovich R.
The validity of the heat tolerance test in prediction of recurrent exertional heat illness events.
J Sci Med Sport. 21:549-552, 2018
126. Lahav Y, **Epstein Y**, Kedem R, Schermann H
A novel body circumferences-based estimation of percentage body fat
Br J Nut 119:720-725, 2018.
127. Hadid A, **Epstein Y**, Shabshin N, Gefen A.
Biomechanical Model for Stress Fracture-related Factors in athletes and Soldiers.
Med Sci Sports Exerc. 50:1827-1836, 2018.
128. Friedman R, Haimy A, Gefen A, **Epstein Y**.
Three-dimensional biomimetic head model as a platform for thermal testing of protective goggles for prevention of eye injuries.
Clin Biomech 64:35-4, 2019.

129. Hadid A, Gozes G, Atoon A, Gefen A, **Epstein Y**. Effects of an improved biomechanical backpack strap design on load transfer to the shoulder soft tissues. *J Biomech*. 76:45-52, 2018.
130. Laxminarayan S, Rakesh V, Oyama T, Kazman JB, Yanovich R, Ketko I, **Epstein Y**, Morrison S, Reifman J. Individualized estimation of human core body temperature using noninvasive measurements. *J Appl Physiol* 124:1387-1402, 2018.
131. Friedman R, Haimy A, **Epstein Y**, Gefen A. Evaluation of helmet and goggle designs by modeling non-penetrating projectile impacts. *Comput Methods Biomech Biomed Engin*. 31:1-14, 2018.
132. Schiffmann N, Schermann H, Mazgaoker S, Shaulov Y, Gabbay U, **Epstein Y**, Yanovich R. The Cardiovascular Reserve Index-A Noninvasive Clinical Insight Into Heat Intolerance. *Clin J Sport Med*. 2018, Epub ahead of print.
133. Halpern P, Dang T, **Epstein Y**, Van Stijn-Bringas Dimitriades D, Koenig KL. Six Hours of Manual Ventilation With a Bag-Valve-Mask Device Is Feasible and Clinically Consistent. *Crit Care Med*. 47:e222-e226, 2019.
134. Malgoyre, A., Siracusa, J., Tardo-Dino, PE. Koulman N, **Epstein Y**, Charlot K. Four-month operational heat acclimatization positively affects the level of heat tolerance 6 months later. *Sci Rep* 10, 20260, 2020.
135. Manevitz Z, Leshem M, Heled Y, **Epstein Y**, Gershon B, Kodesh E. Exertional sodium loss does not increase immediate salt appetite or dietary sodium intake in athletes. *Appetite* 162, 1 July 2021, 105181.
136. Tsadok I, Scheinowitz M, Shpitzer SA, Ketko I, **Epstein Y** *, Yanovich R. Assessing rectal temperature with a novel non-invasive sensor. *J Therm Biol*. 95:102788, 2021.
137. Ioannou LG, Mantzios K, Tsoutsoubi L, Notley SR, Dinas PC, Brearley M, **Epstein Y**, Havenith G, Sawka MN, Bröde P, Mekjavic IB, Kenny GP, Bernard TE, Nybo L, Flouris AD. Indicators to assess physiological heat strain - Part 1: Systematic review. *Temperature (Austin)*. 9(3):227-262, 2022.
138. Ioannou LG, Dinas PC, Notley SR, Gofa F, Gourzoulidis GA, Brearley M, **Epstein Y**, Havenith G, Sawka MN, Bröde P, Mekjavic IB, Kenny GP, Bernard TE, Nybo L, Flouris AD. Indicators to assess physiological heat strain – Part 2: Delphi exercise. *Temperature* 9:263-273, 2021.

139. Belity T, Horowitz M, Hoffman JR, **Epstein Y**, Bruchim Y, Todder D, Cohen H. Heat-Stress Preconditioning Attenuates Behavioral Responses to Psychological Stress: The Role of HSP-70 in Modulating Stress Responses. *Int J Mol Sci.* 8;23(8):4129, 2022.
140. Ferguson J, Hadid A, **Epstein Y**, Jensen D. Effect of Clothing Fabric on 20-km Cycling Performance in Endurance Athletes. *Front. Sports Act. Living* 3:735923, 2022.
141. Belity T, Hoffman JR, Horowitz M, **Epstein Y**, Bruchim Y, Cohen H. β - Alanine supplementation attenuates the neurophysiological response in animals exposed to an acute heat stress. *J Diet Suppl.* 19(4):443-458., 2022.
142. Lustig M, **Epstein Y**, Gefen G. An anatomically realistic computational framework for evaluating the efficacy of protective plates in mitigating non-penetrating ballistic impacts. *Comput Biol Med* 107490, 2023.
143. Taylor KM, Giersch GE, Caldwell AR, Epstein Y, Charkoudian N. Relation of body surface area-to-mass ratio to risk of exertional heat stroke in healthy men and women. *J Appl Physiol* (1985). 136: 549–554, 2024.
144. Nabutovsky I, Sabah R, Moreno M, **Epstein Y**, Klempfner R, Scheinowitz M. Evaluating the Effects of an Enhanced Strength Training Program in Remote Cardiological Rehabilitation: A Shift from Aerobic Dominance—A Pilot Randomized Controlled Trial. *J Clin Med* 13, 1445, 2024.

ORIGINAL ARTICLES – SUBMITTED FOR PUBLICATION

1. Lustig A, Gefen A, **Epstein Y**. Finite element modeling framework for evaluating the efficacy of protective plates in minimizing organ and tissue damage resulting from a blast wave impact. *J Mechan Behav Biomed Mat (JMBBM)*, 2024
2. Akavian I, **Epstein Y**, Rabotin A, Peretz S, Charkoudian N, Ketko I. The Significance of Body Surface Area to Mass Ratio for Thermal Responses to a Standardized Exercise-Heat Stress Test. *Med Sci Sports Exerc.*, 2024
3. Abulafia O, Ashkenazi E, **Epstein Y**, Eliakim A, Nemet D. Characteristics of Vitamin D levels in elite Israeli Olympic athletes. *Med Sci Sports Exerc*, 2024.

CASE REPORTS

1. E. Assia, **Y. Epstein**, Y. Shapiro
Fatal heatstroke after a short march at night: A case report.
Aviat Space Environ Med 56:441-442, 1985. (IF=0.85, 86/153)
2. L. Armstrong, R. Hubbard, **Y. Epstein**, R. Weien
Nonconventional remission of Miliaria Rubra during heat acclimation: case report.
Mil Med 153:402-404, 1988. (IF=0.77, 89/153)
3. E.J. Dann, **Y. Epstein**, E. Sohar
Familial generalized anhidrosis.
Isr J Med Sci 26:451-453, 1990. (IF=0.95, 85.153)
4. J. Hiss, T. Kahana, C. Kugel, **Y. Epstein**
Fatal classic and exertional heat stroke-report of four cases.
Med Sci Law 34:339-343, 1994. (IF=0.30, 13/13)
5. D. Albukrek, D.S. Moran, **Y. Epstein**
A depressed workman with heatstroke.
The Lancet 347:1016, 1996. (IF=33.63, 2/153)
6. D. Albukrek, M. Bakon, M. Faibel, **Y. Epstein**
Heat stroke induced cerebellar atrophy: Clinical course, CT, and MRI findings.
Neuroradiology 39:195-197, 1997. (IF=2.87, 4/14)
7. **Y. Epstein**, D. Albukrek, B. Kalmovitz, D.S. Moran, Y. Shapiro
Heat intolerance induced by antidepressant.
Ann NY Acad Sci 813:553-558, 1997. (IF=2.85, 5/59)
8. **Y. Epstein**, W.O. Roberts, R. Golan, P. Sorkine, P. Halpern
Delayed death from exertional heat stroke.
Curr Sports Med Rep. 14:64-69, 2015
9. **Epstein Y**, Haviv Y, Olchovski D, Heled Y.
Exertional heat stroke
Harefuah, 154:84-97, 2015.
10. Haik J, Brown S, Liran A, Weissman O, Yaffe B, Rivkind A, Efrati S, Winkler E, **Epstein Y**.
Deep frostbite: the question of adjuvant treatment.
IMAJ 18:2-3, 2016.
11. Rabotin A, **Epstein Y**, Ketko I. Heat Intolerance, Body Size, and Return to Duty. Aerosol Med Hum Perform. 94(7):546-549, 2023.

REVIEW ARTICLES and EDITORIAL

1. Y. Shapiro, **Y. Epstein**
Environmental physiology and indoor climate - thermoregulation and thermal comfort.
Energy and Building 7:29-34, 1984.(IF=2.05, 4/53)
2. **Y. Epstein**, E. Sohar
Fluid balance in hot climate: sweating, water intake, and prevention of dehydration.
Pub Health Rev 13:115-137, 1985. (IF=1.27, 88/142)

2. R. Arnon, **Y. Epstein**
Sport anemia and iron metabolism in athletes.
Harefuah 116:384-387, 1989.
4. **Y. Epstein**
Heat intolerance: Predisposing factor or residual injury?
Med Sci Sports Exerc 22:29-35, 1990. (IF=4.11, 3/80)
5. D.S. Seidman, **Y. Epstein**
Cold injuries-prevention, diagnosis and treatment.
Harefuah 118:43-45, 1990.
6. Y. Shapiro, D.S. Seidman, **Y. Epstein**
Predisposition of the elderly to heat stroke. Etiology, diagnosis and prevention.
Harefuah 118:605-608, 1990.
7. D.S. Seidman, **Y. Epstein**, Y. Shapiro
High altitude illness: Pathophysiology, therapy and prevention.
Harefuah 119:334-337, 1990.
8. M. Royburt, **Y. Epstein**, E. Sohar
Physical activity and coronary heart disease.
Harefuah 122:265-266, 1992.
9. **Y. Epstein**, M. Royburt
Does sauna bathing endanger health?
Harefuah 122:330-333, 1992.
10. D. Moran, **Y. Epstein**, Y. Shapiro
Human thermoregulation in thermodynamics terms.
Harefuah 127:246-249, 1994.
11. D. Moran, **Y. Epstein**, Y. Shapiro
Mathematical prediction models for physiological responses under exercise heat stress.
Harefuah 127:312-317, 1994.
12. **Y. Epstein**
Clinical significance of serum creatine phosphokinase activity levels following exercise. (Editorial)
Isr J Med Sci 31:698-699, 1995. (IF=0.95, 85/153)
13. **Y. Epstein**, E. Sohar, Y. Shapiro
Exertional heat stroke: a preventable condition.
Isr J Med Sci 31:454-462, 1995.(IF=0.95, 85/153)
14. L.E. Armstrong, **Y. Epstein**, J.E. Greenleaf, E. Haymes, R.W. Hubbard, W.O. Roberts, P.D. Thompson
Heat and cold illness during distance running (ACSM Position Stand)
Med Sci Sports Exerc 1996. (IF=4.11, 3/80)
15. D. Albukrek, D.S. Moran, A. Assia, **Y. Epstein**
Exertional Heatstroke - Diagnosis, Treatment and Prevention.
Harefuah 130:828-836, 1996.
16. **Y. Epstein**
Predominance of type II fibres in exertional heat stroke. (Editorial)
The Lancet 350:83-84, 1997. (IF=33.63, 2/153)

17. D. Albukrek, **Y. Epstein**, D.S. Moran, E. Sohar
Heat intolerance.
Harefuah 132:563-566, 1997.
18. Y. Shapiro, D. Moran, **Y. Epstein**
Acclimatization strategies - preparing for exercise in the heat.
Int J Sports Med 19:S161-S163, 1998. (IF=2.38, 13/80)
19. **Y. Epstein**, L.E. Armstrong
Fluid-electrolyte balance during labor and exercise: concepts and misconceptions.
Int J Sport Nut Exerc 9:12-23, 1999. (IF=2.23, 20/80)
20. D. Libster, Y. Heled, Y. Shapiro, **Y. Epstein**
Women in combat - physiological aspects.
Harefuah 137:521-525, 1999.
21. **Y. Epstein**, Y. Heled, D. Moran, Y. Shapiro
Prediction of physiological response from mathematical models.
Harefuah 138:713-718, 2000.
22. E. Sohar, Y. Shapiro, **Y. Epstein**
Man in a hot climate - early studies of the Institute of Military Physiology.
Harefuah 138:723-727, 2000.
23. **Y. Epstein**
Exertional heatstroke: lessons we tend to forget.
Am J Sport Med 2:143-152, 2000. (FI=3.82, 5/80)
24. **Y. Epstein**, D. Moran, Y. Shapiro
External heat stroke - is it preventable in military settings?
Harefuah 138:781-784, 2000.
25. **Y. Epstein**, Y. Shani, D.S. Moran, Y. Shapiro
Exertional heat stroke – the prevention of a medical emergency.
J Basic Clin Physiol Pharmacol 11:395-401, 2000.
26. Y. Heled, **Y. Epstein**, Y. Shapiro, D. Moran
Thermoregulation in rest and exercise - gender differences.
Harefuah 140:1041-1045, 2001.
27. **Y. Epstein**, M. Lesham
Animal experimentation in Israel.
Harefuah 141:358-361, 2002.
28. Y. Heled, M. Rav-Acha, Y. Shani, **Y. Epstein**, D.S. Moran
The "Golden Hour" for heatstroke treatment.
Mil Med 169(3):184-186, 2004. (IF=0.77, 89/153)
29. **Y. Epstein**
Cold injuries. (Editorial)
J Isr Mil Med 1:32-33, 2004.
30. E. Hadad, M. Rav-Acha, Y. Heled, **Y. Epstein**, D.S. Moran
Heat stroke: a review of cooling methods.
Sports Med 34:501-511, 2004. (IF=5.07, 1/80)
31. E. Hadad, Y. Cohen-Sivan, Y. Heled, **Y. Epstein**
Clinical review: Treatment of heat stroke: should Dantrolene be considered?

- Critical Care 9:86-91, 2004. (IF=4.60, 4/23)
32. **Y. Epstein**, E. Hadad, Y. Shapiro
Pathological factors underlying hyperthermia.
J Therm Biol 29:487-494, 2004. (IF=1.27, 51/145)
 33. **Y. Epstein**, D.S. Moran
Thermal comfort and the heat stress indices.
Ind Health 44:388-398, 2006. (IF=0.95, 149/193)
 34. **Y. Epstein**
Exertional heat stroke. (Editorial)
Isr J Mil Med 3:135-136, 2006.
 35. **Y. Epstein**
Respiratory protective devices – anatomy of failure. (Editorial)
J Isr Mil Med 4:136-138, 2007
 36. **Y. Epstein**, Y. Cohen-sivan
Exercise associated hyponatremia – facts and myths
Br J Sports Med 41:111, 2007. (IF=3.55, 6/80)
 37. **Y. Epstein**
The sick building syndrome. (Editorial)
Harefuah 147:607-608, 2008.
 38. **Y. Epstein**, Y Shapiro
Heat tolerance in burnt patients
Harefuah 150:681-684, 2011
 39. C. Makranz, Y. Heled, Y. Shapiro, **Y. Epstein**, DS. Moran.
Fluid and sodium balance during exercise – standpoint.
Harefuah 151:107-109, 2012.
 40. **Y. Epstein**
Sports Medicine (Editorial)
Harefuah 151:94-95, 2012
 41. **Y. Epstein**, Y. Heled, Y. Yarom.
The Israeli sports law – medical qualification to participate in competitive sport.
Harefuah 151:111-112, 2012.
 42. **Y. Epstein**, A. Druyan, Y. Heled.
Heat injury prevention--a military perspective.
J Strength Cond Res. 2012;26 Suppl 2:S82-86.
 43. **Y. Epstein**, R. Yanovich, DS. Moran, Y. Heled.
Physiological employment standards IV: integration of women in combat units -
physiological and medical considerations.
Eur J Appl Physiol. 2012; Dec 14. [Epub ahead of print]
 44. Y. Heled, C. Fleischmann, **Y. Epstein**.
Cytokines and their role in hyperthermia and heat stroke. J Basic Clin Physiol
Pharmacol. 2013; Mar 18:1-12. [Epub ahead of print] doi:10.1515/jbcpp-2012-
0040.
 45. Green MS, Pri-Or NG, Capeluto G, **Epstein Y**, Paz S.
Climate change and health in Israel: adaptation policies for extreme
weather events.

- Isr J Health Policy Res. 2013; 2:23-34.
46. Blazejczyk K, Jendrizky G, Brode P, Fala D, Havenith G, **Epstein Y**, Psikuta A, Kampman B.
An introduction to the universal thermal climate index (UTCI)
Geographia Polonica 2013; 86:5-10.
 47. Kjartakov. M, **Epstein Y**.
Exertional heat stroke in athletes
Maced J Med Sci 2013; 6:473-477.
 48. Lucas RA, **Epstein Y**, Kjellstrom T.
Excessive occupational heat exposure: a significant ergonomic challenge and health risk for current and future workers.
Extrem Physiol Med. 3:14-21, 2014.
 49. **Epstein Y**, Fleischmann C, Yanovich R, Heled Y.
Physiological and Medical aspects that put women soldiers at increased risk for overuse injuries.
J Strength Cond Res. (Suppl 11):S107-110, 2015.
 50. Inbar O, Katz U, Dubnov-Raz G, **Epstein Y**.
Principles for the interpretation of cardiopulmonary exercise tests (CPET).
Harefuah 157:604-609, 2018.
 51. **Epstein Y**, Yanovich R.
Heatstroke.
NEJM 380:2449-2459, 2019.
 52. Heled Y, Yarom Y, **Epstein Y**.
Hyponatremia following a marathon, a multifactorial case with over infusion of fluids.
Curr Sports Med Rep 18:115-117, 2019.
 53. Knapik JJ, **Epstein Y**
Exertional heat stroke: pathophysiology, epidemiology, diagnosis, treatment, and prevention.
Spec Oper Med 19:108-116, 2019.
 54. **Epstein Y**, Falick Michaeli T, Rivkind A, Efrati S, Haik J.
Deep frostbite: the question of treatment.
Emerg Med Inves 4:1093, 2019.
 55. Lee JKW, Tan B, Kingma BRM, Haman F, **Epstein Y**.
Biomarkers for warfighter safety and performance in hot and cold environments.
J Sci Med Sport, 23:S1440-2440(22)00503-5, 2022.
 56. **Epstein Y**.
The climate crisis
Harefuah 162: 75-76, 2023

CHAPTERS IN BOOKS

1. B. Lunenfeld, Y. Epstein, Z. Kraiem
Regulation of hypothalamic-pituitary axis by testicular secretion.
In: "Sperm Action", Prog Reprod Biol Vol. 1, pp.174-186, 1976.
2. A. Magazanik, Y. Epstein, Y. Shapiro, E. Sohar
Effects of heatstroke, dehydration and exercise on blood enzyme levels in the dog.
In: "Advances in physiological Sciences, Contribution to Thermal Physiology".
Z. Szelenyi, M., Szekely (eds.), Akademiai Kiado, Budapest, pp.549-552, 1980.
3. E. Sohar, G. Keren, Y. Epstein
Man and the Negev Climate. (Hebrew)
In: "The Negev Climate", D. Elbashan (ed.), Israel Meteorological Services Pub,
Beit Dagan, pp.179-192, 1980.
4. Y. Epstein, M. Horowitz, E. Bosin, Y. Shapiro, S. Glick
Changes in vasopressin distribution in brain of heat stressed and heat
acclimated rats.
In: "Thermal Physiology". J. R. S. Hales (ed.), Raven Press, New-York, pp.137-
140, 1984.
5. A. Arieli, Y. Epstein, J. Rosenblum, Y. Shapiro
Effect of training, fat or carbohydrate ingestion on exercise induced changes in
glucose and triglyceride blood levels.
In: "Advances in Nutrition". C. Horowitz (ed.), John Libbey and Co. London
pp.65-68, 1985.
6. D. Zakay, Y. Epstein, Y. Shapiro
The effect of a coaching setting and competitive motivation on performance
under heat stress.
In: "Stress and Coping in Time of War. Generalizations from the Israeli
Experience". A. Milgram (ed.), Brunner/Mazel Pub, New York, pp.205-215,
1986.
7. Y. Shapiro, Y. Epstein, E. Assia
Rate of temperature elevation in the pathogenesis of heatstroke.
In: "Trans. Menzies Found." J.R.S. Hales, D.A.B. Richards (eds.), Menzies
Foundation, Melbourne, Vol. 14 pp.261-263, 1987.
8. Y. Shapiro, Y. Epstein, E. Sohar
Heat related injuries. (Hebrew)
In: "Emergency Field Medicine". E. Karniel:, I. Levy (eds.) MOD Publishing Inc,
Chapter 18 pp.371-387, 1987.
9. Y. Shapiro, Y. Epstein, E. Sohar
Cold Injuries. (Hebrew)
In: "Emergency Field Medicine". E. Karniel:, I. Levy (eds.) MOD Publishing Inc,
Chapter 19 pp.390-410, 1987
10. Y. Epstein, Y. Shapiro, Y. Danon
Heatstroke and exhaustion.
In: "Manual of Surgery in War and Disaster". N.D. Reis, E. Dolev (eds.)
Springer Verlag, Berlin pp.90-98, 1989.
11. A. Rachmel, Y. Epstein, R. Steinhertz, M. Nitzan, Y. Shapiro
Arginine vasopressin (ADH) alleviates poor heat tolerance in a child with

- hypodipsic hyperthermia with partial ADH deficiency.
In: "Thermoregulation: Research and Clinical Applications". P.Lomax,, E. Schonbaum (eds) Karger, Basel pp.88-90, 1989.
12. D.S. Seidman, **Y. Epstein**
Thermoregulation in man under pyridostigmine induced cholinesterase inhibition.
In: "Thermal Physiology". J.B. Mercer (ed.), Elsevier Press 1989.
 13. D.S. Seidman, I. Ashkenazi, **Y. Epstein**, Y. Shapiro
Voluntary water intake during a prolonged desert march.
In: "Sports, Medicine and Health". E.P.H. Hermans (ed.), Elsevier Science Publishers, pp.625-629, 1990.
 14. M. Birger, H. Hermesh, A. Shalev, **Y. Epstein**, R. Burstein, H. Munitz, S. Floru
Heat loading in haloperidol-treated schizophrenic patients: physiological abnormalities.
In: "Psychiatry: a world perspective": C.N. Stefanis et al. (eds.). Elsevier Science Publishers, Vol 3 pp.293-298, 1990.
 15. M. Arad, **Y. Epstein**, E. Krasner, Y. Danon
Principles of respiratory protection.
In: "Chemical Warfare Medicine"; Y. Danon, J. Shemer (eds.); Gefen Pub, Jerusalem pp.65-74, 1994.
 16. M. Arad, **Y. Epstein**, M. Royburt, H. Berkenstadt, G. Alpert, J. Shemer
Physiological assessment of the passive children's hood.
In: "Chemical Warfare Medicine"; Y. Danon, J. Shemer (eds.); Gefen Pub, Jerusalem pp.75-80, 1994.
 17. **Y. Epstein**, N. Linder, D. Lubin, R. Gale, J. Gale, B. Reichman
The incubator as a chemical warfare protective device in neonatal intensive care units.
In: "Chemical Warfare Medicine"; Y. Danon, J. Shemer (eds.); Gefen Pub, Jerusalem pp.81-84, 1994.
 18. **Y. Epstein**, D.S. Seidman
The physiological effects of atropine and pyridostigmine as a pretreatment for organophosphate poisoning.
In: "Chemical Warfare Medicine"; Y. Danon, J. Shemer (eds.); Gefen Pub, Jerusalem pp.85-91, 1994.
 19. A. Yellin, S. Eilon, D.A. Simansky, R. Shiner, **Y. Epstein**, Y. Lieberman
Pneumothorax and the nuclear, biological, and chemical protective mask.
In: "Chemical warfare medicine"; Y. Danon, J. Shemer (eds.); Gefen Pub, Jerusalem pp. 109-112, 1994.
 20. A. Frank, D. Moran, **Y. Epstein**, M. Belokopytov, Y. Shapiro
The estimation of heat tolerance by a new cumulative heat strain index.
In: "Environmental Ergonomics - recent progress and new trends" Shapiro Y., Moran D.S., **Epstein Y.** (eds.) Freund Pub House, London pp.194-197, 1996.
 21. D. Moran, **Y. Epstein**, A. Laor, Y. Shapiro
Effector mechanisms in predicting heart rate response to various metabolic rates, environments and clothing.
In: "Environmental Ergonomics - recent progress and new trends" Shapiro Y.,

- Moran D.S., **Epstein Y.** (eds.) Freund Pub House, London pp.198-201, 1996.
22. A. Frank, Y. Shapiro, M. Belokopytov, D. Moran, **Y. Epstein**
Changes in heart rate variability as a result of ten days of exercise-heat exposure.
In: "Environmental Ergonomics - recent progress and new trends" Shapiro Y., Moran D.S., **Epstein Y.** (eds.) Freund Pub. House, London pp.417-420, 1996.
 23. R. Burstein, D. Zemer, R. Arnon, O. Shpilberg, D.S. Seidman, **Y. Epstein**, M. Pras
Glucose tolerance is not necessarily impaired by longterm colchicine treatment.
In: Familial Mediterranean Fever. Sohar E, Gafni J, Pras M. (eds.). Freund Publishing House, London, pp.40-46, 1997.
 24. **Y. Epstein**
Climate related injuries: prevention and primary treatment of heatstroke and cold injuries. (Hebrew)
In: Saving life with first aid. Donchin Y, Kudinski N, (eds.). Ministry of Defense Publications, Tel Aviv, pp.119-132, 1997.
 25. **Y. Epstein**, D.S. Moran, Y. Shapiro
Exertional heatstroke in the Israeli Defence Forces.
In: Textbooks of Military Medicine, Lounsbury DE, Bellamy RF, Zajtcuk R (eds.), Vol. 1, Medical Aspects of Harsh Environments. Pandolf KB, Burr RE (eds.), Office of the Surgeon General, US Army, pp.281-292, 2002.
 26. **Y. Epstein**, D.S. Moran
Extremes of temperature and hydration.
In: Travel Medicine, 1st ed. Keyston JS, Kozarsky PE, Freedman DO, Nothdurft HD, Connor BA, eds. Mosby: London, Chpt.40, pp.383-392, 2003.
 27. **Y. Epstein**, D.S. Moran
Extremes of temperature and hydration.
In: Travel Medicine, 2nd ed. Keyston JS, Kozarsky PE, Freedman DO, Nothdurft HD, Connor BA, eds. Mosby: London, Chpt.41, pp 411-422, 2008.
 28. **Y. Epstein**, A. Hadid, Z. Laron, D.S. Moran
Muscle-bone relationship in patients with Laron Syndrome.
In: Laron Syndrome – from man to mouse, Z Laron, J Kopchick (eds.). chapter 19, Sringer-Verlag, Berlin, pp. 171-174, 2011.
 29. **Y. Epstein**, D.S. Moran
Extremes of temperature and hydration.
In: Travel Medicine, 3rd ed. Keyston JS, Kozarsky PE, Freedman DO, Connor BA, Nothdurft HD, eds. Elsevier Inc: Chpt.41, pp 381-390, 2012.
 30. Hadid A, **Epstein Y**, Shabshin N, Gefen A.
The Mechanophysiology of Stress Fractures in Military Recruits.
In: Mechanobiology and Mechanophysiology of Military-Related Injuries. Eds: Gefen A, Epstein Y., Springer-Verlag, 2016,
 31. Friedman R, Epstein Y, Gefen A.
Traumatic Brain Injury in the Military: Biomechanics and Finite Element Modelling.
In: Mechanobiology and Mechanophysiology of Military-Related Injuries. Eds: Gefen A, Epstein Y., Springer-Verlag, 2016,

INVITED PAPERS IN SCIENTIFIC MEETINGS

1. **Y. Epstein**
Heat tolerance: predisposing factor or residual injury?
American College of Sports Medicine, 37th Annual Meeting
Med Sci Sports Exerc 1990 Feb;22:29-35.
2. **Y. Epstein**
Respiratory protective devices for civilians - physiological considerations.
Int Conf Emergency Civilian Medical Services in a Non-Conventional War, Tel Aviv, March 1992 (#30).
3. **Y. Epstein**, D. Moran Exertional heatstroke - diagnosis, management and prevention - the IDF experience.
44th Int Cong Aviat Space Med, Jerusalem, September 1996.
4. D. Moran, **Y. Epstein**, J. Shemer
Epidemiology of heat stroke - the IDF experience.
IDF – US Army Conf Milit Med, Jerusalem, November 1996.
5. **Y. Epstein**
Heatstroke - an under-diagnosed syndrome. .
IDF – US Army Con Milit Med, Jerusalem, November 1996.
6. **Y. Epstein**
Heatstroke - an under-diagnosed syndrome.
13th Int Jerusalem Sym Sports Med, Jerusalem, March 1997.
7. **Y. Epstein**
Heat strain and heat stress indices and what lies between them.
Biomed Heat Conference, Barcelona, Spain, June 1999.
8. Y. Shapiro, D.S. Moran, **Y. Epstein**
Procedures for optimal acclimatization to heat.
The 26th Int Cong. Occup Health. Singapore, August 2000.
9. D.S. Moran, Y. Shani, Y. Heled, **Y. Epstein**, Y. Shapiro
Collapse during exercise - military.
American College of Sports Medicine, 47th Annual Meeting, Indianapolis 2000,
Med Sci Sports Exerc 32:S214,
10. **Y. Epstein**
Exertional heatstroke.
7th Conference of the International Society of Travel Medicine (CISTM7),
Innsbruck, Austria, May 2001.
11. **Y. Epstein**
Fluid and electrolyte balance during exercise in the heat.
7th Conference of the International Society of Travel Medicine (CISTM7),
Innsbruck, Austria, May 200.
12. **Y. Epstein**
Exertional heat stroke – soldiers.
American College of Sports Medicine, 51st Annual Meeting, Indianapolis 2004.

13. **Y. Epstein**
Adaptation to heat during military operations.
2nd International Congress on Soldier's Performance, Jyväskylä, Finland, May 2011.
14. **Y. Epstein**
Acclimation to heat: from man to bench
14th Int Con Environ Ergo (ICEE) Nafplio, Greece, July 2011
15. **Y. Epstein**
Integration of women in combat units – physiological and medical aspects
1st Australian Conference on Physiological and Physical Employment Standards. Canberra, Australia Nov. 2012
16. **Y. Epstein**
Heat adaptation and illness
Workshop – moving in extreme conditions. Dunedin, NZ. Feb. 2013.
17. **Y Epstein**
Symposium - Heat Stroke
18. **Y. Epstein**
Physiological and medical risk factors that put women soldiers at higher risk for overuse injuries.
3rd International conference on soldiers' Physical Performance. Boston, MA, August 2014

Note: This list is incomplete

PAPERS PUBLISHED AS PROCEEDINGS

1. D. Zakay, Y. Shapiro, **Y. Epstein**, S. Brill
The effect of personal cooling system on performance under heat stress.
Human Psych 26th Annual Meeting, pp. 128-131, 1982.
2. Y. Shapiro, **Y. Epstein**, D. Moran, R. Mayer
Predicting sweat loss response to exercise, climate, solar load, and clothing.
ICE-O-SHE, Beijing, People Rep. China 1988.
3. D. Moran, **Y. Epstein**, Y. Shapiro
Do clothing and climate effect oxygen consumption?
5th Int Conf Environ Ergo Loten W.A., Havenith G. (eds.) pp.108-109, 1992.
4. **Y. Epstein**, D.S. Moran, Y. Shapiro
Respiratory protective devices (RPDs) - physiological considerations for the civilian non-active population.
6th Int Conf Environ Ergo, Frim J., Ducharme M.B., Tikuisis P. (eds.) pp.110-111, 1994. (ISBN 0-662-21650-4)
5. Y. Shapiro, D.S. Moran, G. Ganot, **Y. Epstein**
Integrated air cooling system - a new concept in individual cooling devices.
6th Int Conf Environ Ergo, Frim J., Ducharme M.B., Tikuisis P. (eds.) pp. 114-115, 1994. (ISBN 0-662-21650-4)
6. D.S. Moran, **Y. Epstein**, A. Laor, T. Vitalis, Y. Shapiro
Mechanism and prediction of heart-rate changes under heat load and exercise.

- 6th Int Conf Environ Ergo, Frim J., Ducharme M.B., Tikuisis P. (eds.) pp. 188-189, 1994.
7. Y. Shapiro, D. Moran, **Y. Epstein**
Heat acclimatization.
Int Symp Thermal Physiol, B. Nielsen - Johannsen, Nielsen R. (eds.), The August Krogh Institute, Copenhagen, pp.71-77, 1997.
 8. D. Moran, Y. Shapiro, **Y. Epstein**
82 cases of heat stroke - is it preventable?
Int Symp Thermal Physiol, B. Nielsen - Johannsen, Nielsen R. (eds.), The August Krogh Institute, Copenhagen, pp.149-152, 1997.
 9. Y. Shapiro, D. Moran, **Y. Epstein**
Survival in the heat – is there a problem?
Environmental Ergonomics IX. Werner J, Hexamer M, (eds.). ICEE Ruhr 2000, Aachen, Shaker Verlag, pp.5-18, 2000. (ISBN 3-8265-7648-9)
 10. D.S. Moran, K.B. Pandolf, R.R. Gonzalez, **Y. Epstein**, Y. Heled, Y. Shapiro
Evaluation of the environmental stress index (ESI) for physiological variables.
Environmental Ergonomics X, Tochihara Y., (ed.). Fukuoka, Japan, Kyushu Inst. Design, pp.169-172, 2002. (ISBN 4-9901358-0-6)
 11. D.S. Moran, Y. Heled, Y. Shani, Y. Shapiro, **Y. Epstein**
136 cases of cold injuries in the military.
Environmental Ergonomics X, Tochihara Y., (ed.). Fukuoka, Japan, Kyushu Inst. Design, p. 231-234, 2002. (ISBN 4-9901358-0-6)
 12. **Y. Epstein**, Y. Heled, D.S. Moran
Respiratory protective device for civilians – physiological considerations.
Environmental Ergonomics X, Tochihara Y., (ed.). Fukuoka, Japan, Kyushu Inst. Design, p. 489-492, 2002. (ISBN 4-9901358-0-6)
 13. Y. Heled, D.S. Moran, Y. Shani, A. Frank, M. Belokopytov, Y. Shapiro, **Y. Epstein**
BC protective garments – is there a breakthrough in reducing physiological strain during exercise-heat stress?
Environmental Ergonomics X, Tochihara Y., (ed.). Fukuoka, Japan, Kyushu Inst. Design, p. 101-104, 2002. (ISBN 4-9901358-0-6)
 14. M. Belokopytov, G. Dubinsky, M. Belkin, **Y. Epstein**, M. Rosner
Development and recovery of laser-induced retinal injury in rats.
Ophthalmic Technologies XV, Manns F, Soderberg PG, Ho A, Stuck BE, Belkin M, eds.
SPIE Vol. 5688, pp. 312-319, 2005.
 16. **Y. Epstein**, D.S. Moran, Y. Shapiro
Gender differences in rapid acclimation to heat.
Environmental Ergonomics XI, Holmer I, Kuklane K, Gao C, eds. Ystad Sweden, pp 208-210, 2005. (ISBN 91-631-7062-0)
 17. Moran DS, Pandolf KB, **Epstein Y**, Heled Y, Sapiro Y, Gonzalez RR
Validatio of the environmental stress index (ESI) for physiological variables.
Proc. 10th ICEE, Fukuoka Japan, 2002. Environmental Ergonomics Vol 3. Tochihara Y, Ohnaka T (eds.) Elsevier, Amsterdam 2005 pp.495-501 (ISBN 0080444660)

18. R Yanovich, R Evans, A Hadid, H Isome, Y Epstein, D Catrambone, DS Moran
Physical fitness estimates in gender integrated basic training.
Environmental Ergonomics XII, Mekjavic IB, Taylor NAS, eds. Piran Slovenia,
pp 546-547, 2007. (ISBN 978-961-90545-1-2)
19. G Khomenok, A Hadid, R Yanovich, T Erlich, O Ron-Tal, A Peled, Y Epstein,
DS Moran
Hand immersion in cold water alleviates heat strain.
Environmental Ergonomics XII, Mekjavic IB, Taylor NAS, eds. Piran Slovenia,
pp 546-547, 2007. (ISBN 978-961-90545-1-2)
20. DS Moran, Y Shapiro, Y Epstein
The heat tolerance test – a valuable screening tool for susceptibility to heat.
Environmental Ergonomics XII, Mekjavic IB, Taylor NAS, eds. Piran Slovenia,
pp 546-547, 2007. (ISBN 978-961-90545-1-2)
21. Y Heled, A Peled, E Shargal, R Piltz-Burstein, Y Epstein, DS Moran
Physiological and psychomotor performances in hypoxic conditions after heat
acclimation.
13th Int Con Environ Ergo, Boston, MA, USA
22. DS Moran, Y Heled, T Erlich, R Yanovich, A Hadid, Y Shapiro, Y Epstein
Heat intolerance assessment of 367 post heat stroke cases
13th Int Con Environ Ergo, Boston, MA, USA
23. Y Epstein, DS Moran, Y Heled, A Hadid, R Kobo, M Lewkowicz, Y Shapiro, J
Levitan
The sympato-vagal regulation of heart rate rhythm during acclimation to heat:
analyzing heart rate variability by means of the multipole method
13th Intl Con Environ Ergo, Boston, MA, USA
24. Y. Epstein
Adaptation to heat during military operations.
2nd Intl Cong Soldier's Performance, Jyväskylä, Finland, May 2011.
25. Y Epstein, Y Heled, R Yanovich, Y Shapiro, D Moran.
The effect of air permeability characteristics of protective garments on the
induced physiological strain under exercise-heat stress.
Proc 15th Int Conf Environ Ergo. (ISBN 978-0-473-22438-7) Quenstown, NZ p
267, 2013.

Note: this list is incomplete

PAPERS PRESENTED AT SCIENTIFIC MEETINGS (ABSTRACTS)

1. H. Becker, M. Klupp, Y. Epstein, U. Seidl, B. Lunenfeld
Follicle-stimulating-hormone inhibitory factor of male and female gonadal origin.
Isr J Med Sci 13:623, 1977.
2. Y. Shoenfeld, Y. Shenkar, Y. Shapiro, R. Udassin, C. Birenfeld, Y. Epstein
Aerobic work capacity in academic population.
Isr J Med Sci 13: 1138, 1977.
3. L.M. Lewin, A. Gabsu, Z. Nevo, Y. Epstein, R. Weissenberg
The influence of various compounds on release of hyaluronidase from rat

- spermatozoa.
Isr J Med Sci. 13:959, 1977.
4. H. Becker, M. Klupp, Y. Epstein, U. Seidl, B. Lunenfeld
Evidence for an inhibitory factor derived from follicular fluid.
59th Annual Meeting, Am Endo Soc, Chicago, June 1977, (#380).
 5. Y. Epstein, B. Lunenfeld, Z. Kraiem
The effect of androgens on pituitary responsiveness to gonadotropin- releasing-
hormone.
Isr J Med Sci
 6. A. Magazanik, Y. Shapiro, Y. Epstein, E. Sohar
Blood electrolytes-dynamics of heatstroke.
Isr J Med Sci 14:1006, 1978.
 7. Y. Shapiro, R. Udassin, Y. Epstein, Y. Shoenfeld, E. Sohar
Anthropological characteristics and aerobic work capacity in an academic
population in Israel.
13th Int Committee for Physical Fitness Research (I.C.P.F.R.) Meeting,
Johannesburg, July 1978.
 8. Y. Shapiro, F. Konikoff, A. Magazanik, Y. Shoenfeld, Y. Epstein, R. Udassin
Effect of chronic salt load on human performance in hot dry climate.
13th Int. Committee for Physical Fitness Research (I.C.P.F.R.) Meeting,
Johannesburg, July 1978.
 9. Y. Epstein, R. Udassin, J. Sack
Alteration in serum T₃ concentration by short exposure to heat.
Isr J Med Sci 15:550. 1979.
 10. J. Sack, Y. Epstein, R. Udassin
Changes in thyroid hormone metabolism after short exposure to heat.
61st Annual Meeting. Am Endo Soc, Anaheim, CA., June 1979 (#72).
 11. A. Magazanik, Y. Epstein, E. Assia, Y. Shapiro
Dynamic changes in cortisol blood levels during heatstroke.
Int Symp Adrenal Androgens, Siena, Italy, Oct. 1979.
 12. A. Magazanik, G. Keren, Z. Sloan, Y. Epstein
Heat intolerance in heatstroke men.
8th Int Cong Biometerol, Shefyim, Israel, Sept. 1979 (#48).
 13. A. Magazanik, Y. Epstein, E. Sohar, R. Udassin, Y. Shapiro
Comparison of different cooling methods for heatstroke victims.
8th Int Cong Biometerol, Shefyim, Israel, Sept. 1979 (#19).
 14. G. Keren, Y. Epstein, A. Magazanik
Vitamin C and the improvement of physical fitness.
Isr J Med Sci 16:220, 1980.
 15. A. Magazanik, Y. Epstein, G. Keren, S. Molcho
VO₂max and respiratory functions in children swimmers.
Isr J Med Sci 16:219, 1980.
 16. G. Keren, A. Magazanik, Y. Epstein
Comparison of four procedures for the determination of VO₂max.
Isr J. Med. Sci. 16:219, 1980.

17. G. Keren, Y. Epstein, E. Sohar
Aerobic work capacity in relation to body surface area.
Isr J Med Sci, 1980.
18. A. Magazanik, Y. Epstein, Y. Shapiro, E. Sohar
The effects of heatstroke, dehydration and exercise on muscle and liver enzymes.
28th Int Cong Physiol Sci, Satellite Symp: Thermal Physiol. Pecs, Hungary, July, 1980.
19. G. Keren, A. Magazanik, Y. Epstein
The effect of backpack load on oxygen uptake at different speeds of walking and running.
Isr J Med Sci 16:219, 1980.
20. Y. Epstein, G. Keren, A. Magazanik
Maximal oxygen uptake (VO₂max) in rural and urban residents. Effect of habitual activity.
Isr J Med Sci 16:220, 1980.
21. B. Lefevre, Z. Kraiem, Y. Epstein, B. Lunenfeld, A. Gougeon, A. Thebault, O. Bonsel-Helmreich, R. Frydman, E. Papiermik, D. Saltarely, E. Milgrom
Inhibin activity and steroid content in human follicular fluid during the preovulatory period.
Isr J Med Sci 16:408, 1980.
22. A. Magazanik, R. Dmiel R, Y. Epstein, Y. Shapiro
Heat load, exercise and heatstroke - their effect on VO₂ and cardiac output.
28th Int Cong Physiol Sci, Budapest, Hungary, July 1980.
23. Y. Epstein, Y. Levy, S.M. Glick
Dynamics of rat extra-hypothalamic brain vasopressin in response to dehydration.
Isr J Med Sci 17:1199, 1981.
24. Y. Epstein, S.M. Glick, Y. Levy
Responses of extra-hypothalamic brain vasopressin to dehydration.
63rd Annual Meeting American Endo Soc, June 1981 (#416).
25. Y. Shapiro, H. Zur, Y. Epstein, B. Keren, H. Ben-Simchon
Thermoregulatory responses of patients recovered from extensive burns.
The Physiologist 24:66, 1981.
26. S. Brill, Y. Shapiro, Y. Epstein
The role of work efficiency and surface area to mass ratio in heat intolerance.
Fed Proc 41:976, 1982.
27. Y. Epstein, M. Castel, S.M. Glick, Y. Shapiro
The distribution of ADH in hypothalamic and extra-hypothalamic areas following dehydration.
Fed Proc 41:1367, 1982.
28. M. Castel, N. Sivan, R. Ravid, Y. Epstein, S. Glick
Changes in vasopressin distribution and content in the brain of water deprived rats.
Neuroscience (Suppl.) 7:537, 1982.

29. D. Zakay, Y. Shapiro, Y. Epstein, S. Brill
The effect of motivation on performance under heat stress.
3rd Int Conf Psychological Stress and Adjustment in Time of War and Peace.
Tel-Aviv, Jan. 1983.
30. A. Arieli, Y. Epstein, Y. Shapiro
Effect of training, fat or carbohydrate ingestion on exercise-induced changes in glucose triglyceride blood levels.
Int Conf Diet and Nut, Tel-Aviv, Fed. 1983.
31. A. Arieli, Y. Epstein, Y. Shapiro, A. Eshkol
The effect of almond ingestion during exercise on carbohydrate homeostasis and its regulatory hormones.
Isr J Med Sci. 1983.
32. Y. Epstein, Y. Shapiro, S. Brill, D. Zakai
Auxiliary Colling: a comparison of various methods in hot/dry climate.
Fed Proc 1983.
33. G. Stendig-Lindberg, Y. Epstein, Y. Shapiro, J. Rosenblum, E. Galun, E. Schonberg, E. Graff, W.E.C. Wacker
The effect of strenuous exercise on serum magnesium concentration.
Proc 1st Joint Meeting Israeli Soc Life Sci, Jerusalem, Oct. 1983.
34. Y. Epstein, M. Horowitz, E. Bogin, Y. Shapiro, S.M. Glick
Changes in vasopressin distribution in brain of heat stressed and heat acclimated rats.
Int Symp On Thermal Physiology, Australia Sept. 1983.
35. E. Assia, Y. Epstein, Y. Shapiro
Pretreatment with dexamethasone in experimental heatstroke in rabbits.
IUPS Regional Meeting, Jerusalem, August 1984.
36. G. Stendig-Lindberg, E. Graf, Y. Epstein, Y. Shapiro, E. Galun, E. Schonberger, W.E.C. Wacker
Strenuous effort causes a persistent lowering of serum magnesium.
IUPS Regional Meeting, Jerusalem, 1984.
37. J. Rosenblum, Y. Epstein, Y. Shapiro
Gradual elevation in O₂ consumption along 120 min constant effort. Its relation to the unaerobic threshold.
1984 Olympic Scientific Congress, Oregon, July 1984, (#1115).
38. Y. Epstein, J. Rosenblum, Y. Shapiro, E. Sohar
Urban hypothermia - an underdiagnosed and undertreated disease.
10th Int Cong Biometeor, Tokyo, 1984.
39. E. Assia, Y. Epstein, Y. Shapiro
The importance of rate of temperature elevation in the pathogenesis of heatstroke.
IUPS Regional Meeting; Jerusalem, August 1984. Isr. J. Med. Sci. 21:90, 1985.
40. G. Stendig-Lindberg, Y. Epstein, Y. Shapiro, E. Schonberg, E. Graff, W.E.C. Wacker
Delayed hypomagnesemia following strenuous effort.
9th Int Cong Physical Rehab, Jerusalem, May 1984.

41. **Y. Epstein**, Y. Shapiro, J. Rosenblum
Gradual elevation in O₂ consumption along 120 min constant effort.
Med Sci Sports Exer 16:174, 1984.
42. R. Burstein, E. Galun, E. Assia, **Y. Epstein**, Y. Shapiro
Plasma glucose after prolonged exercise combined with caloric restriction.
Clin Physiol 5 (Suppl.):4, 1985.
43. R. Burstein, **Y. Epstein**, Y. Shapiro, E. Karnieli
Exercise effect on tissue responsiveness to insulin in obesity.
6th Int Symps Biochemistry of Exercise, Copenhagen, June 1985.
44. R. Burstein, **Y. Epstein**, Y. Shapiro, P. Siegal
Acute reversal effect of exercise on insulin resistance in extreme obesity.
Diabetes_35 (Suppl. 1): 132A, 1986.
45. **Y. Epstein**, A. Shitzer
Auxiliary cooling and cooled drinking water supplied by a system operated on limited power.
Ann Physiol Antrop 5:138, 1986.
46. Y. Shapiro, **Y. Epstein**, M. Horowitz, S.M. Glick
Plasma and extra-hypothalamic vasopressin (VP) changes as a result of heat, osmotic, and hypovolemic strains.
Proc 30th IUPS Congress, Vancouver BC, Canada 16:506 (p 471.04), July 1986
47. **Y. Epstein**, M. Horowitz, Y. Shapiro
Plasma vasopressin (VP) changes during heat acclimatization.
Thermal Physiology, Satellite Sym. of the 30th IUPS Congress; Calgary, Alberta, Canada, July 1986.
48. Y. Shapiro, **Y. Epstein**, M. Horowitz, S.M. Glick
The role of extra-hypothalamic vasopressin (VP) in thermoregulation - A hypothetical model.
Thermal Physiology Satellite Symp. of the 30th IUPS Congress; Calgary, Alberta, Canada, July 1986.
49. E. Assia, **Y. Epstein**, Y. Shapiro
Thermal injury Index (TII) - A heatstroke prognostic index.
Thermal Physiology Satellite Symp. of the 30th IUPS Congress; Calgary, Alberta, Canada, July 1986.
50. R. Burstein, **Y. Epstein**, Y. Shapiro, E. Karnieli, I. Charuzi
The effect of weight loss on insulin resistance after gastric reduction operation.
5th International Congress on Obesity; Jerusalem, Israel. September 1986.
51. **Y. Epstein**, L.A. Stroschein, K.B. Pandolf
Predicting energy cost of running with and without backpack loads.
Fed Proc 1987.
52. R. Burstein, E. Galun, E. Assia, I. Tur-Kaspa, **Y. Epstein**
Muscle enzymes activity in predicting physical capacity during prolonged exercise.
Fed Proc 1987.
53. **Y. Epstein**, S.R. Muza, W.A. Latzka, K.B. Pandolf
Alterations in pulmonary function caused by backpack load.

- Med Sci Sport 19 (Suppl.): S31, 1987 (#186).
54. B.S. Cadarette, A.J. Young, M.N. Sawka, **Y. Epstein**, B. DeCristofano, K.B. Pandolf
Cooling different body surfaces during upper and lower body exercise.
Aviat Space Environ Med 58:495, 1987 (#75).
 55. B. Falk, R. Burstein, I. Ashkenazi, E. Katz, A. Rubinstein, N. Bashan, **Y. Epstein**, Y. Shapiro
Effect of Caffeine ingestion on energy metabolism and exercise endurance.
Rev Clin Basic Pharmacol 6:275, 1987.
 56. R. Burstein, O. Shpilberg, A. Rubinstein, N. Bashan, B. Falk, **Y. Epstein**
Energy metabolism during prolonged exercise in 78h fasted subjects.
Fed Proc 46: 1018, 1987.
 57. **Y. Epstein**, O. Shpilberg, R. Burstein, A. Rubinstein
Lipid profile under food deprivation and physical effort.
Med Sci Sports Exerc 20 (Suppl.): 573, 1988 (#433).
 58. Y. Shapiro, D. Moran, **Y. Epstein**, R. Burstein, J. Alter
Predicting rectal temperature response under different combinations of
environmental climate, solar load.
Environ Ergonomics; Helsinki, Aug. 1988.
 59. R. Burstein, **Y. Epstein**, O. Lev-Tov, Y. Shapiro, A. Rubinstein
Effect of insulin and exercise on serum lipids in human obesity.
Pflugers Arch 413 (Suppl. 1): R35, 1988 (#138).
 60. R. Arnon, D.S. Seidman, E. Dolev, R. Burstein, P.A. Deuster, **Y. Epstein**
The effect of blood donation on iron balance in subjects participating in a
strenuous 11 week training course.
Pflugers Arch. 413 (Suppl. 1): R35, 1988 (#139).
 61. Y. Shapiro, **Y. Epstein**
Heat stroke - the Israeli experience.
Pflugers Arch. 413 (Suppl. 1): R34, 1988 (#136).
 61. Y. Shapiro, **Y. Epstein**, D. Moran, R. Mayer
Predicting sweat loss response to exercise, climate, solar load and clothing.
Int Conf Ergo Occup Safety Health & the Environment, Beijing, China, Oct.
1988.
 62. R. Burstein, **Y. Epstein**, Y. Shapiro, E. Karnieli
Effect of acute exercise on glucose transport in obese rats' adipocytes.
2nd Eur Cong on Obesity, Oxford, England, March 1989.
 63. D.S. Seidman, E. Dolev, P.A. Deuster, R. Burstein, R. Arnon, **Y. Epstein**
Effect of long term physical training on serum testosterone and cortisol levels in
male subjects.
Int Cong Sport Sci, Wingate Institute, Israel, June 1989.
 64. D. Moran, **Y. Epstein**, Y. Shapiro
Predicting heart rate response to exercise, climate and clothing.
International Symposium on Environmental Stress; 31st IUPS Congress.
Tampere Finland. July 1989.
 65. **Y. Epstein**, M. Horowitz, Y. Shapiro

Vasopressin distribution in hypothalamic and extra-hypothalamic CNS regions in response to thermal and fluid stress.
Thermal Physiology Int. Symposium; 31st IUPS Congress. Tromso, Norway. July 1989.

66. D.S. Seidman, Y. Epstein
Thermoregulation in man under pyridostigmine induced cholinesterase inhibition.
Thermal Physiology Symposium; 31st IUPS Congress. Tromso, Norway. July 1989.
67. E. Galun, I. Tur Kaspas, E. Assia, R. Burstein, N. Straus, Y. Epstein, M.M. Popovitzer
Unrestrained water (W) drinking during strenuous exercises predisposes to hyponatremia: possible adverse effect on muscular integrity.
22nd Meeting Am Soc Nephrol, December 1989.
68. R. Burstein, Y. Zick-Bachar, Y. Epstein, Y. Shapiro
Effect of one bout of acute exercise on glucose transport in obese rats' adipocytes.
Med Sci Sports Exerc 22 (Suppl.): S80, 1990 (#480).
69. Y. Epstein, D.S. Seidman, Y. Shapiro
Glucose polymer beverage ingestion during prolonged outdoor exercise in the heat.
Med Sci Sports Exerc 22 (Suppl.): S121, 1990 (#722).
70. D. Moran, Y. Epstein, Y. Shapiro
The influence of hot/wet and hot/dry climate on the assessment of cardiac output during exercise using the CO₂ rebreathing technique.
FIMS World Cong Sports Med Amsterdam, June 1990.
71. D.S. Seidman, Y. Epstein, Y. Shapiro
Voluntary water intake during a prolonged desert march.
FIMS World Cong Sports Med Amsterdam, June 1990.
72. E. Sohar, J. Alter, Y. Shapiro, Y. Epstein
A modified DI substitution of WBGT.
12th Int Cong, Biometeorol, Vienna, Aug. 1990.
73. Y. Epstein, D.S. Seidman, D. Moran, E. Leibowitz, Y. Shapiro
Are skin disorders a predisposing factor of heat intolerance in the young active population?
Med Sci Sports Exerc 24:S54, 1991.
74. D. Moran, Y. Epstein, Y. Shapiro
The influence of hot/wet and hot/dry climate on stroke volume.
Med Sci Sports Exerc 24: S55, 1991.
75. D. Moran, U. Meiri, Y. Epstein, Y. Shapiro, M. Horowitz
Cardiovascular response to hot/dry and hot/wet climates in the rat.
IUPS Regional Meeting, Prague, July 1991 (#PM 19).
76. Y. Epstein, D.S. Seidman, D. Moran, J. Atias, Y. Shapiro
The effect of heat stress on auditory brain stem evoked response in man.
IUPS Regional Meeting. Prague, July 1991 (#PM 20).

77. M. Horowitz, Y. Epstein, Y. Shapiro
Vasopressin in thermoregulation - competitive demands: experimental evidence and theoretical considerations.
IUPS Regional Meeting. Prague, July 1991 (#TG 1.8).
78. D. Moran, Y. Epstein, Y. Shapiro
Do clothing and climate effect oxygen consumption?
5th Int Con Environ Ergo, Maastricht, Nov. 1992.
79. R. Burstein, Y. Epstein, W.A. Coward, M.B. Sawyer, D. Moran, C.F. Irving, O. Shpilberg, E.W. Askew, B. Lev, M. Wiener
Energy balance in subjects performing physical efforts in cold climate.
Med Sci Sports Exerc 25:S43 (#231), 1993.
80. D. Moran, U. Meiri, Y. Epstein, Y. Shapiro, M. Horowitz
The influence of heat acclimatization and physical training on mean arterial blood pressure during heat stress in rats.
IUPS Thermal Physiology Commission Symposium Aberdeen, Scotland, August 1993.
81. Y. Epstein, G. Ginot, Y. Shapiro, M. Djaldetti, H. Bessler
The effect of extreme heat stress on the immune system in rats.
32nd Congress of IUPS, Glazgo Scotland, August 1993.
82. R. Burstein, G. Zeilig, M. Roybourt, A. Ohry, Y. Epstein
Insulin resistance in paraplegics - effect of one bout of acute exercise.
Med Sci Sports Exerc 26 (Suppl.): S28 (#158), 1994.
83. A. Frank, Y. Epstein, D. Moran, S. Israeli
Evaluation of the physiological strain under exercise heat stress.
Med. Sci. Sports Exerc. 26 (Suppl.): S125 (#701), 1994.
84. D. Moran, Y. Epstein, G. Keren, J. Sherez, A. Laor, Y. Shapiro
Mean arterial pressure as a function of heart rate.
Med Sci Sports Exerc 26 (Suppl.): S163 (#918), 1994.
85. R. Brandeis, Y. Epstein, D. Moran, A. Levy
Computerized test battery for the assessment of performance and behavior in humans.
Can J Physiol Pharmacol 72 (Suppl. 1): 362, 1994.
86. Y. Epstein, A. Frank, D. Moran, Y. Shapiro
Autonomic cardlac control in the case of hand immersion in tap water following heat exposure.
Med Sci Sports Exerc 27 (Suppl.): S47 (#269), 1995.
87. R. Burstein, M. Frankel, B. Kalmovitz, D. Moran, Y. Epstein
Ubiquinone as a potential agent to minimize muscle membrane damage induced by exercise.
Med Sci Sports Exerc 27 (Suppl.): S203 (#1138), 1995.
88. H. Hermesh, H. Manaim, Y. Epstein, M. Birger, H. Munnitz
Disturbed thermoregulation in haloperidol-treated out patients with chronic schizophrenia.
Eur Neuropsychopharmacol 5:334 (#1-4-23), 1995.
89. A. Frank, Y. Epstein, D. Moran, Y. Shapiro
Heart rate variability during rest and exercise in hot environment.

- Med Sci Sports Exerc 27 (suppl), 1995.
90. D. Moran, Y. Shapiro, Y. Epstein, M. Wiener, M. Horowitz
Does dantrolene assist recovery from heatstroke?
Med Sci Sports Exerc 28 (Suppl.): S63 (#377), 1996.
 91. Y. Epstein D.S. Moran, D. Albukrek
The clinical significance of exercise induced elevation in serum CPK activity levels in army recruits.
12th Int. Jerusalem Symp. Sports Inj., Tel Aviv, March 1996.
 92. D. Albukrek, D.S. Moran, B. Kalmovitch, Y. Epstein
Acute exertional rhabdomyolysis - a case report.
12th Int Jerusalem Symp Sports Inj, Tel Aviv, March 1996.
 93. Y. Epstein, D. Albukrek, B. Kalmovich, D. Moran, Y. Shapiro
Heat intolerance induced by antidepressants.
Pharmacology of Thermoregulation, Memphis August 1996.
 94. A. Frank, D. Moran, Y. Epstein, M. Belokopytov, Y. Shapiro
Estimation of heat tolerance by a new cumulative heat strain index.
7th Int Con Environ Ergo Jerusalem, October 1996.
 95. D. Moran, Y. Epstein, A. Laor, Y. Shapiro
Effect of mechanisms in predicting heart rate response to various metabolic rates, environments and clothing.
7th Int Con Environ Ergo, Jerusalem, October 1996.
 96. A. Frank, Y. Shapiro, M. Belokopytov, D. Moran, Y. Epstein
Changes in heart rate variability as a result of ten days of exercise - heat exposure.
7th Int Con Environ Ergo, Jerusalem, October 1996.
 97. A. Frank, D. Moran, Y. Epstein
Quantitative estimation of heat strain for military coveralls versions by a new index. .
IDF – US Army Conf Milit Med (Shoresh meetings), Jerusalem, November 1996.
 98. A. Frank, M. Belokopytov, Y. Epstein
Sympatho-vagal balance and heart rate regulation during repeated exercise in heat.
13th Int Jerusalem Sym Sports Med. 1997.
 99. R. Burstein, I. Lilling, D. Lichtenberg, D. Moran, A. Hochman, Y. Epstein
Vitamin E supplementation - effect on oxidative damage induced by prolonged physical exercise.
Med Sci Sports Exerc 29 (Suppl): S40, 1997 (#226).
 100. A. Frank, Y. Shapiro, D. Moran, M. Belokopytov, Y. Epstein
The thermoregulatory and cardiovascular strain in the estimation of heat intolerance.
Med Sci Sports Exerc 29 (Suppl.): S134, 1997 (#732).
 101. D. Moran, Y. Shapiro, Y. Epstein
82 cases of exertional heat stroke - is it preventable?
Int Symp on Thermal Physiology, Copenhagen July 1997.

102. Y. Shapiro, D. Moran, Y. Epstein
Heat acclimatization.
Int Symp on Thermal Physiology, Copenhagen July 1997.
103. D.S. Moran, Y. Epstein, Y. Shapiro
Biochemical profile at the acute stage of exertional heat stroke.
5th World Congress Int. Soci Adaptive Med., Framingham MA, USA, Sept.1997.
104. A. Frank, M. Belokopytov, Y. Shapiro, D. Moran, Y. Epstein
Exercise heat acclimation and the changes in metabolic rate.
14th Int Jerusalem Symp Sports Med., Maale Hachamisha, Feb 1998.
105. M. Belokopytov, A. Frank, Y. Shapiro, Y. Epstein, D. Moran
Exercise heat acclimation and sodium balance.
14th Int Jerusalem Symp Sports Med., Maale Hachamisha, Feb 1998.
106. A. Frank, M. Belokopytov, Y. Shapiro, Y. Epstein, D. Moran
The phasic changes in fluid balance during exercise heat acclimation.
14th Int Jerusalem Symp Sports Med., Maale Hachamisha, Feb 1998.
107. Roberts WO, Maresh CM, Epstein Y, Armstrong LE.:
Eradication of exertional heatstroke in athletic and military populations. (mini-symposium)
Med Sci Sports Exerc 30:S87,(#491), 1998.
108. M. Belokopytov, Y. Epstein, Y. Shapiro, D. Moran, A. Frank
Sympatho-vagal balance in exercised-heat acclimation.
Med Sci Sports Exerc 30(Suppl):S222 (#1266), 1998.
109. A. Frank, M. Belokopytov, Y. Shapiro, Y. Epstein, D. Moran
Cumulative heat strain index in exercise-heat acclimation.
Med Sci Sports Exerc 30(Suppl):S222 (#1268), 1998.
110. Y. Epstein, Y. Heled, A. Achman, D. Moran, Y. Shapiro
Is "tympanic membrane" infrared thermometry a valid measure of core temperature?
Med. Sci. Sports Exerc 30(Suppl):S283 (#1608), 1998.
111. D.S. Moran, A. Laor, Y. Epstein, Y. Shapiro
A modified discomfort index (MDI) as a substitute for the wet bulb globe temperature (WBGT).
Med Sci Sports Exerc 30(Suppl):S284 (#1615), 1998.
112. S. Luria, R. Mashiach, S. Givoni, Y. Epstein, D.S. Moran
Passive vs. active respiration protection gear - the IDF experience.
The Israel-USA R&D Symposium "Shores", Zichron Yaakov, April 1998.
113. M. Belokopytov, Y. Epstein, A. Frank
Exercise-heat acclimation causes changes in sympatho-vagal balance.
6th Int Cong Physical Edu Sports Komotini, Greece, May 1998 (#264).
114. A. Frank, M. Belokopytov, D.S. Moran, Y. Epstein
Heat-independent physiological reactions in exercise-heat acclimation.
26th FIMS World Congress, Orlando, FL, USA, June 1998.
115. Y. Epstein
Is hyponatremia a real threat for workers in the heat?
The 8th International Conference on Environmental Ergonomics (ICEE8); San

Diego, CA, USA; November 1998.

116. D.S. Moran, Y. Shapiro, Y. Epstein, K.B. Pandolf
A modified discomfort index (MDI) as an alternative to the wet bulb globe temperature (WBGT).
The 8th International Conference on Environmental Ergonomics (ICEE8); San Diego, CA, USA; November 1998.
117. D.S. Moran, Y. Epstein, Y. Shapiro
Biochemical profile changes during exertional heat stroke.
The 8th Int Conf on Environmental Ergonomics (ICEE8); San Diego, CA, USA; November 1998.
118. A. Frank, M. Belokopytov, Y. Heled, Y. Epstein
Heart rate variability as a tool for comparative evaluation of respiratory protective devices (RPD).
The 8th Int Conf on Environ Ergo (ICEE8); San Diego, CA, USA; Nov. 1998.
119. N. Constantini, A. Giladi, G.S. Rozen, B. Raz, Y. Epstein, I. Ish-Shalom
Biochemical markers of bone metabolism in adolescent female dancers.
American College of Sports Medicine, 47th Annual Meeting,
Med Sci Sport Exerc 32(5):S98, 2000
120. M. Belokopytov, Y. Epstein, I. Dobrov, D.S. Moran, Y. Shapiro, A. Frank
The effect of heat stress on fractal dimension of heart rate.
The 9th Int Conf Environ Ergo, Dortmund, Germany, August 2000.
121. Y. Heled, D.S. Moran, Y. Shapiro, Y. Epstein
Practical management of water balance during 8 hours heat exposure by using sweat rate prediction.
The 9th Int Conf Environ Ergo, Dortmund, Germany, 30July–4Aug., 2000.
122. Y. Shapiro, D.S. Moran, Y. Epstein
Survival in the heat – Is there a problem?
The 9th Int. Conf. Environ., Ergo. Dortmund, Germany, 30July – 4Aug., 2000.
123. S. Chevion, D.S. Moran, Y. Heled, Y. Shani, S. Regev, B. Abbou, E. Berenstein, Y. Epstein
Plasma antioxidant status following severe physical exercise.
124. Y. Shani, Y. Epstein, Y. Heled, L. Ruise, D.S. Moran, E. Friedman
Estrogen receptor polymorphisms do not have a role in the development of stress fractures.
American College of Sports Medicine, 48th Annual Meeting
Med Sci Sports Exerc 33:5 Suppl 1:S323, 2001.
125. A. Frank, M. Belokopytov, I. Dobrov, Y. Heled, Y. Shani, Y. Epstein, Y. Shapiro, D.S. Moran
The dynamic properties of hyperthermia development in heat intolerant man.
American College of Sports Medicine, 48th Annual Meeting
Med Sci Sports Exerc 33:5 Suppl 1:S162, May 2001.
126. Y. Heled, M. Scheinowitz, M. Eldar, D.S. Moran, Y. Epstein, Y. Shapiro
Does prior heat acclimation reduce myocardial injury after acute myocardial infarction.
Proc of the Australian Physiol and Pharmacol Soc, International Thermal Physiology Symposium, August 2001, 51P.

127. D.S. Moran, Y. Shani, Y. Heled, A. Frank, Y. Epstein, Y. Shapiro
Assessment of heat intolerance.
Proc of the Australian Physiol and Pharmacol Soc, International Thermal
Physiology Symposium, August 2001, 108P.
128. Y. Shani, Y. Heled, Y. Epstein, Y. Shapiro, D.S. Moran
The effect of rapid cooling on the course and prognosis of exertional heat
stroke - two case reports.
Proc of the Australian Physiol and Pharmacol Society, International Thermal
Physiology Symposium, August 2001, 143P.
129. M. Belokopytov, G. Dubinsky, M. Belkin, Y. Epstein, M. Rozner
Protective vaccination with copolymer-1 decreases laser-induced retinal
damage.
XV Int Cong of Eye Res, Geneva, Switzerland, Oct 6-10, 2002.
130. Y. Epstein, Y. Heled, D. Moran
Respiratory protective devices for civilians –physiological considerations.
10th Int Conf Environ Ergo (ICEE), Fukuoka Japan, 23-27 September 2002.
131. Y. Heled, D. Moran, Y. Shani, A. Frank, M. Belokopytov, Y. Shapiro, Y. Epstein
BC protective garments – is there a breakthrough in reducing physiological
strain during exercise-heat stress?
10th Int Conf Environ Ergo (ICEE), Fukuoka Japan, 23-27 September 2002.
132. D.S. Moran, Y. Heled, Y. Shani, Y. Shapiro, Y. Epstein
136 cases of cold injuries in the military.
10th Int Conf Environ Ergo (ICEE), Fukuoka Japan, 23-27 September 2002.
133. D.S. Moran, K.B. Pandolf, R.R. Gonzalez, Y. Epstein, Y. Heled, Y. Shapiro
Evaluation of the environmental stress index (ESI) for physiological variables.
10th Int Conf Environ Ergo (ICEE), Fukuoka Japan, 23-27 September 2002.
134. M. Belokopytov, G. Dubinsky, M. Belkin, Y. Epstein, M. Rozner
Protective vaccination with copolymer-1 decreases laser-induced retinal
damage.
XV Int Cong of Eye Res, Geneva, Switzerland, Oct.6-10, 2002.
135. M. Belkin, A. Kaplan-Messas, E.A. Sellem, C.E. Traverso, S.A. Gandolfi, Z.F.
Zagorski, A.M. Bron, Y. Epstein
The Ex-Press miniature glaucoma implant in combined surgery.
23rd Meeting Israel Society for Vision & Eye Research, Jerusalem, Mar 13-14,
2003.
136. Y. Dror, Y. Heled, D.S. Moran, S.R. Sampson, Y. Shapiro, Y. Epstein, J.
Meyerovitch
Overexpression of TNF α in fat tissue of diabetes prone Psammomys Obesus
in response to physical exercise.
Med Sci Sports Med 35:S88, (481) May 2003.
137. Y. Heled, Y. Dror, D.S. Moran, S.R. Sampson, Y. Shapiro, Y. Epstein, J.
Meyerovitch
Physical exercise increases expression of TNF α and GLUT 1 in muscle tissue
of diabetes prone Psammomys obesus.
Med Sci Sports Med 35:S96, (530) May 2003.
138. M. Belokopytov, G. Dubinsky, Y. Epstein, M. Belkin, M. Rosner

- Copolymer-1 vaccination regimens for neuroprotection in laser-induced retinal injuries.
5th International Symposium on Ocular Pharmacology and Therapeutics (ISOPT), MonteCarlo, Monaco, A30, March 2004.
139. Y. Dror, Y. Heled, S.R. Sampson, T. Rosenzweig, Y. Epstein, J. Meyerovitch
Overexpression of TNF α in fat tissues of diabetes prone Psammomys obesus in response to physical exercise.
Annual Meeting of the Israel endocrine Society, Tel Aviv, P87, December 2004.
 140. M. Belokopytov, M. Belkin, V. Vishnevskia-Dai, G. Dubinsky, Y. Epstein, N. Gal, I. Avni, M. Rosner
The neuroprotective effect of hyperbaric oxygen treatment on laser-induced retinal damage in rats.
Biomedical Optics Bios 2005, San Jose, CA, Jan 22-25, 2005. (# 5688B-61)
 141. M. Belokopytov, M. Belkin, G. Dubinsky, Y. Epstein, M. Rosner
Development and recover processes of laser-induced retinal injuries in rats.
Biomedical Optics Bios 2005, San Jose, CA, Jan 22-25, 2005. (# 5688B-56)
 142. M. Belkin, M. Belokopytov, G. Dubinsky, Y. Epstein, M. Rosner
Copolymer-1 vaccination regimens for neuroprotection in laser-induced retinal injuries.
Biomedical Optics Bios 2005, San Jose, CA, Jan 22-25, 2005. (# 5688B-58).
 143. M. Belokopytov, G. Dubinsky, Y. Epstein, M. Belkin, M. Rosner
Copaxone vaccination for retinal neuroprotection.
6th meeting of the German Neuroscience Society, 30th Gottingen Neurobiology Conference, Jan. 2005. (#414A)
 144. M. Belokopytov, G. Dubinsky, M. Belkin, Y. Epstein, M. Rosner
Copolymer-1 vaccination regimens for neuroprotection in laser-induced retinal injuries.
SPIE Vol. 5688, San Jose, CA., Jan. 2005.
 145. M. Belokopytov, G. Dubinsky, M. Belkin, Y. Epstein, M. Rosner
Development and recovery of laser-induced retinal injury in rats.
SPIE Vol. 5688, San Jose, CA., Jan. 2005.
 146. M. Belokopytov, G. Dubinsky, Y. Epstein, M. Belkin, M. Rosner
Effective neuroprotective vaccination with copaxone against laser-induced retinal damage.
25th Annual Meeting, Israel Society for Vision & Eye Research, March 2005, p.15
 147. Y. Epstein, D. Dinour, M. Magal, D.S. Moran, N. Peled
Exercise induced hyponatremia during intensive field march.
International Congress on Soldiers' Physical Performance, Jyväskylä, Finland, p.113, 2005.
 148. Y. Epstein, D.S. Moran, Y. Shapiro
Rapid acclimatization to heat – is it attainable?
Proc of the 11th Intl Conf ICEE, Ystad, Sweden, 22-26 May, 2005.
 149. Y. Epstein, D.S. Moran, Y. Shapiro
Gender differences in rapid acclimation to heat.
Proc of the 11th Int Conference ICEE, Ystad, Sweden, 22-26 May, 2005.

150. **Y. Epstein**, Y. Cohen-Sivan, N. Hirschorn, G. Khomenok, D.S. Moran
The effect of muscle fiber type composition on rhabdomyolysis CK levels.
Med Sci Sports Exerc 38:S124 (1112), 2006.
151. Khomenok G., Hadid A., Yanovich R., Erlich T., Ron-Tal O., Peled A., **Epstein Y.**, Moran DS.
Hand immersion in cold water alleviates heat strain.
ICEE 2007, Piran, Slovenia. August 2007
152. Yanovich R., Evans R., Hadid A., Isome H., **Epstein Y.**, Catrambone D., Moran DS.
Physical fitness estimates in gender integrated basic training.
ICEE 2007, Piran, Slovenia. August 2007
153. Moran DS., Shapiro Y., **Epstein Y.**
The heat tolerance test – a valuable screening tool for susceptibility to heat.
ICEE 2007, Piran, Slovenia. August 2007
154. D. Merkel, M. Huerta, I. Grotto, E. Rachmilevitz, E. Fibach, **Y. Epstein**, O Shpilberg.
Anemia and iron deficiency in strenuously trained adolescents.
155. Z. Urbiztondo, C.L. Dumke, M.J. Cavill, N.T. Triplett, J.M. McBird, J.C. Quindry, M. Magal, **Y. Epstein**.
Relationship between muscle damage markers and measurements of anaerobic power and aerobic capacity.
ACSM Ann meeting Indianapolis, IN May 2008
156. S. Shtrasburg, **Y. Epstein**, M. Pras, A. Livneh, M. Lidar.
Ambient temperature and amyloidogenesis in mice.
Exp Rheumatol 26:183, 2008
157. **Y. Epstein**, T. Rozenzweig, Y. Heled, A. Hadid, Y. Shapiro, D.S. Moran.
The impact of heat acclimation on pro- and anti-inflammatory cytokine response.
Med Sci Sports Exerc 42:S194, 2010 (#A-25)
158. A Hadid, **Y Epstein**, N Shabshin, A Gefen
Finite element modeling to assist with backpack ergonomics
XIV International conference on Environmental Ergonomics (ICEE) Nafplio, Greece, 2011. (*awarded the best poster prize*)
159. Y. Heled, DS Moran, **Y. Epstein**, Y. Shapiro
Thermal disorders: a military perspective
XIV International conference on Environmental Ergonomics (ICEE) Nafplio, Greece, 2011.
160. **Y Epstein**
Acclimatization to heat – from man to bench
XIV International conference on Environmental Ergonomics (ICEE) Nafplio, Greece, 2011.
161. A Gefen, M Stern-Perry, N Shabshin, **Y Epstein**
Finite element analysis of stress fractures in a rat model
23rd congress of the International Society of Biomechanics (ISB2011) (abstract # I.3.6). Brussels, 2011.

162. A. Hadid, Y. Epstein, N. Shabshin, A. Gefen.
Strains and Stresses in the Shoulders while Carrying a Backpack, 18th
Coongress of the European Society of Biomechanics (ESB2012), Instituto
Superior Técnico (IST), Technical University of Lisbon, Lisbon, Portugal,
July 1st - 4th, 2012.
163. **Y Epstein**, Y Heled, R Yanovich, Y Shapiro, D Moran.
The effect of air permeability characteristics of protective garments on the
induced physiological strain under exercise-heat stress.
Proc 15th Int Conf Environ Ergo. (ISBN 978-0-473-22438-7) Quenstown, NZ p
267, 2013
164. A Hadid, **Y Epstein**, N Shabshin, A Gefen.
Development of a computational model for stress fractures in human.
Proc 11th Int Sympos Computer Meth Biomed Eng (CMBBE). Salt Lake City
UT, USA April 2013.
165. Heled Y, Cohen-Sivan Y, Yanovich R, Fleishmann C, Muginshtein J, Atias D,
Ketko I, **Epstein Y**, Druyan A.
Smoking and exercise heat tolerance.
ACSM annual meeting 2013 (abstract #499).
166. Hadid A, Gefen A, Shabshin N, **Epstein Y**.
Variation in tibial morphology and stress fractures susceptibility – a
computational study.
ACSM annual meeting, Miami FL, 2014 (abstract # 1063)
167. Heled Y, Dagan Y, Cohen-Zion M, Waissengrin B, Ketko I, **Epstein Y**,
Muginshtein E.
The effect of partial and complete sleep deprivation on exercise heat tolerance.
ACSM annual meeting, Miami FL, 2014 (abstract # 2574)
168. Ketko I, Eliyahu U, Shapiro Y, Moran DS, **Epstein Y**, Heled Y.
A physiological index to evaluate heat intolerance based on combined thermal
and circulatory response.
The 5th Intern Meet Physiol Pharmacol Temp Regul (PPTR), Skukuza, SA
Sept 2014,
169. **Epstein Y**.
Physiological and medical aspects that put women soldiers at increased risk for
overuse injuries.
3rd Int Cong on Soldiers' physical performance (ICSPP), Boston MA, USA
August 2014

Note: This list is incomplete

ITEMS IN ENCYCLOPEDIA

1. **Y. Epstein**
Heat related injuries
The Israel Medical Encyclopidia, 2007. (Hebrew).
2. **Y. Epstein**
Cold injuries.

- The Israel Medical Encyclopidia, 2007. (Hebrew).
3. **Y. Epstein**
Heat exhaustion
The Israel Medical Encyclopidia, 2007. (Hebrew).
 4. **Y. Epstein**
Water discipline
The Israel Medical Encyclopidia, 2007. (Hebrew).
 5. **Y. Epstein**
sport drinks
The Israel Medical Encyclopidia, 2007. (Hebrew)
 6. **Y. Epstein**
Exertional rhabdomyolysis
The Israel Medical Encyclopidia, 2007. (Hebrew)
 7. **Y. Epstein**
CO poisoning
The Israel Medical Encyclopidia, 2007. (Hebrew).
 8. **Y. Epstein**
Snake bite
The Israel Medical Encyclopidia, 2007. (Hebrew).
 9. **Y. Epstein**
Metabolism
The Israel Medical Encyclopidia, 2007. (Hebrew).
 10. **Y. Epstein**
Chemical warfare
The Israel Medical Encyclopidia, 2007. (Hebrew).
 11. **Y. Epstein**
Biological warfare
The Israel Medical Encyclopidia, 2007. (Hebrew).
 12. **Y. Epstein**
G-forces
The Israel Medical Encyclopidia, 2007. (Hebrew).

F. BOOKS EDITED

1. **Y. Epstein**
Traveler's Practical Guide. (Hebrew)
M.O.D. Publ., 283 pp., 1983.
2. Y. Shapiro, D.S. Moran, **Y. Epstein**
Environmental Ergonomics – recent progress and new trends.
Freund Publishing House, 440 pp., 1996.
3. A Gefen, Y Epstein
The mechanobiology and mechanophysiology of military-related injuries
Springer-Verlag, Berlin, 332 pp. 2016

G. OTHER PUBLICATIONS

1. Habitual Physical Activity and Health.
Lang K., Andersen R., Mkosironi J., Rutenfranz J., Seliger V., in collaboration with Degre D., Trygg K., Grin M. (eds.), WHO Regional Publications.
Harefuah (Book Review) 96:358, 1979.
2. **Y. Epstein**, G. Keren, J. Sack
Thyroid function in heat intolerant patients.
Ann. Int. Med. (Letter to the Editor) 92:260-261, 1980.
3. R. Burstein, E. Assia, **Y. Epstein**
Sports anemia: a myth?
The Lancet (Letter to the Editor) ii: 8451, Aug. 1985.
4. Heatstroke
IDF Medical Corps.
MOD Publisher (Educational Film) 1993.
5. "The Cold War" – preventing cold injuries.
IDF Medical Corps.
MOD Publisher (Educational Film) 1993.
6. O. Shpilberg, A. Pikarski, S. Heimann, **Y. Epstein**, R. Burstein
Coma in mild hypothermia.
Aviat. Space Environ. Med. (Letter to the Editor) 65:878, 1994.
7. A. Livneh, O. Zaphrir, **Y. Epstein**
Accidental hypothermia possibly caused by antecedent heat stroke.
Postgrad. Med. J. (Letter to the Editor) 70:666-667, 1994.
8. "The Human Machine"
IDF Medical Corps.
MOD Publisher (Educational Film) 1996.
9. Y. Shani, D.S. Moran, Y. Heled, Y. Shapiro, **Y. Epstein**
Exertional heat illness.
The Lancet (Letter to the Editor) 355:1992-3, 2000.
10. **Y. Epstein**
Scientific Ethics.
J Appl Physiol (Letter to the Editor) 92(5):2226, 2002.
11. E. Hadad, D.S. Moran, **Y. Epstein**
Cooling heat stroke patients by available field measures.
Crit Clinics (Letter to the Editor) 30:338, 2004.
12. **Y. Epstein**
Climate Changes and Human Health
McMichael A.J., Campbell-Lendrum D.H., Corvalan E.F., Ebi K.L., Githeko A., Scheraga J.D., Woodward A. (eds). WHO, 2003
Harefuah (Book Review) 2004.
13. **Y. Epstein**
Physicians and terror.

- Harefuah (Letter to the Editor) 144:520, 2005.
14. **Y. Epstein**
Cooling heat stroke patients
Br J Sports Med (Electronic Letter)
<http://bjsm.bmjjournals.com/cgi/eletters/39/8/503#270> , 2005.
 15. **Y. Epstein**
Exercise induced heat stroke – a preventable condition
Running world, July 2011 pp10-12 (popular science)
 16. **Epstein Y, Heled Y.**
Back to play of athletes after exertional heat stroke.
Curr Sports Med Rep. 2013 12:346. (Letter to the editor)
 17. **Y Epstein, Y Shoenfeld**
The link between sauna bathing and mortality may be noncausal
JAMA Internal Med 175:1718-1719, 2015 (Letter to the editor)
 18. **Epstein Y, Yanovich R, Heled Y.**
Heat tolerance test or race simulation test for return to activity after heat stroke.
Med Sci Sports Exerc. 48:1428, 2016. (Letter to the editor)

Note: This list is incomplete

EDITORIAL BOARD

Since 2004 Harefuah, Israel Journal Medical Association
 Since 2004 Journal Israeli Military Medicine
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