

Technion Institute of Technology
Faculty of Biology
Cancer and cannabinoids research lab
Haifa, Israel

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Joshua Aviram, R.N, PhD, Post-Doctoral fellow

https://www.researchgate.net/profile/Joshua_Aviram

Education

Nov 2018 – Present day **Technion Institute of Science, Faculty of Biology, Cancer research lab**
Post-Doctoral fellow
Haifa, Israel

Oct 2013 – 2019 **University of Haifa, Faculty of Social Welfare and Health Sciences,**
Department of nursing
PhD
Haifa, Israel

Oct 2011 – Oct 2013 **University of Haifa, Faculty of Social Welfare and Health Sciences,**
Department of nursing
Magister, M.A
Haifa, Israel

Oct 2007 – Oct 2011 **Max Stern Yezreel Valley College**
Bachelor of nursing, B.A
Emek Yezreel, Israel

Courses

May 2019 **Duke University**
Certificate, Linear Regression and Modeling
North Carolina, United States

Feb 2019 – Apr 2019 **Duke University**
Certificate, Inferential Statistics
North Carolina, United States

Feb 2019 – Mar 2019 **Duke University**
Certificate, Introduction to Probability and Data
North Carolina, United States

Sep 2018 – Oct 2018 **Johns Hopkins University**
Certificate, Introduction to the Biology of Cancer (with Honors)
Baltimore, Maryland

Jul 2018 – Aug 2018 **Technion - Israel Institute of Technology**
Certificate, Medical Cannabis for Pain Control
Haifa, Israel

2017 **Master-class Medicinal Cannabis**
Leiden, The Netherlands

2015 **Institute of Advanced Nursing Training**
Clinical Instructor
Haifa, Israel

Academic year

2014/2015 **University of Haifa**
GCP and Clinical Trials management
Haifa, Israel

Oct 2013 – June 2014 **Technion- Technological Institute of Israel and School of Pain Medicine of Rambam Medical Center**
Pain trustee course for physicians and nurses
Haifa, Israel

Master's Thesis

Joshua Aviram: *The influence of sleep patterns on fatigue and experimental pain perception during the day among healthy men.* 01/2013, Degree: Master's Degree, Haifa University Faculty of Social Welfare and Health Sciences Department of Nursing, Supervisors: Prof. Dorit Pud and Prof. Tamar Shochat.

PhD Thesis

Joshua Aviram: *Developing the Israeli Data Base for the Assessment of Medical Cannabis (MC) Effectiveness and Safety for Chronic Pain Treatment: a Web Technology Based Prospective Study.* 09/2018, Degree: PhD Degree, Haifa University Faculty of Social Welfare and Health Sciences Department of Nursing, Supervisors: Prof. Dorit Pud and Prof. Elon Eisenberg.

Research Experience

Jun 2013 – 2016 **Research Assistant**
University of Haifa, Department of Nursing
Haifa, Israel

Work Experience

2006 - 2008 Medic in cross country travels
2010 - 2011 Student nurse position in Haemek Medical Center, Afula, Israel
2011 – 2019 Nurse pain trustee /staff nurse at Rambam Medical Center, Internal ward C,
Haifa, Israel

Awards & Grants

Jan 2007 Scholarship: FIDF scholarship in the B.A. studies (4000 \$ yearly/4 years)
Jan 2008 Award: Vela Victorian in the B.A. degree (3,000 NIS)
Jan 2012 Grant: funding for Master's thesis from Israel Pain Society (IPA) (10,000 NIS)
Sep 2016 Grant: funding for poster presentation at Yokohama, Japan. (Ministry of
Science, Technology and Space) (2,500 \$)
Nov 2016 Grant: funding for PhD thesis from Israel Pain Society (IPA) (10,000 NIS)
Jan 2017 Grant: funding for PhD thesis from TEVA pharmaceuticals (25,000 \$)
Nov 2017 Grant: funding for PhD thesis from Israel Pain Society (IPA) (10,000 NIS)

Skills & Activities

Skills Chronic Pain, Pain Research, Pain, Palliative Medicine, Pain Measurement, Pain Medicine, Pain Management, Pain Perception, Pain Assessment, Sleep assessment, Cannabinoids, Cannabis, Medical Cannabis.

Languages English, Hebrew (modern)

Scientific Memberships Israel Pain Association (IPA)

International Association for the Study of Pain (IASP)

European Pain Federation (EFIC)

Journal Publications

Joshua Aviram, Gil M Lewitus, Yelena Vysotski, Ben Yellin, Paula Berman, Anna Shapira, David Meiri: *Prolonged Medical Cannabis Treatment Improves Quality of Life and Reduces Analgesic Medication Consumption in Chronic Pain Patients*. *Frontiers in Pharmacology*. (Under review at 9.11.2020). (original article). Authors are presented by relative contribution. Impact factor: 4.4 (at 6/2019).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, David Meiri, Yacov Fogelman, Oren Tsvieli, Ben Yellin, Elon Eisenberg: *Medical Cannabis Treatment for Chronic Pain: Outcomes and Prediction of Response*. (original article). Authors are presented by relative contribution. *European Journal of Pain*. Impact factor: 3.18 (at 10/2020).

Joshua Aviram, Yelena Vysotski, Paula Berman, Gil M Lewitus, Elon Eisenberg, David Meiri: *Migraine Frequency Decrease Following Prolonged Medical Cannabis Treatment: A Cross-Sectional Study*. *Brain Sciences* 10(6):1-15 (2020). (original article). Authors are presented by relative contribution. Impact factor: 2.78 (at 6/2019).

Jeffrey, Y Hergenrather*, **Joshua Aviram***, Yelena Vysotski, Salvatore Campisi-Pinto, Gil M Lewitus, David Meiri: *Cannabinoid and Terpenoid Doses are Associated with Adult ADHD Status of Medical Cannabis Patients*. *Rambam Maimonides Med J* 11, 1 (2020). (original article). *equal contribution. Authors are presented by relative contribution. Impact factor: N/A (at 11/2018).

Joshua Aviram, Dorit Pud, Miriam Ogintz, Bareket Schiff-Keren, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Itay Goor-Aryeh, Howard Amital, Elon Eisenberg: *A Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain Treatment: Initial Results*. *Rambam Maimonides Med J*, 8, 1 (2018). (Abstract). Authors are presented by relative contribution

Joshua Aviram, Tamar Shochat: *Longer Sleep Duration and Later Sleep Timing are Associated with Increased Cold-Pain Perception During the Day*. 05/2018;, DOI:10.1007/s41782-018-0040-2. (original article). Authors are presented by relative contribution. Impact factor: N/A (at 11/2018).

Joshua Aviram, Gil Samuely: *In Response: Aviram J et al The Perils of Overestimating the Efficacy of Cannabis-Based Medicines for Chronic Pain Management*. Pain physician 01/2018; 21(1):E79-E85. (letter to the editor). Authors are presented by relative contribution. Impact factor: 2.79 (at 11/2018).

Doron Meiselles*, **Joshua Aviram***, Erica Suzan, Dorit Pud, Elon Eisenberg: *Does self-perception of sensitivity to pain correlate with actual sensitivity to experimental pain?*. Journal of Pain Research 11/2017; Volume 10:2657-2663., DOI:10.2147/JPR.S149663. (original article). *equal contribution. Authors are presented by relative contribution. Impact factor: 2.64 (at 11/2018).

Joshua Aviram, Gil Samuely-Leichtag: *Systematic Review Efficacy of Cannabis-Based Medicines for Pain Management: A Systematic Review and Meta-Analysis of Randomized Controlled Trials*. Pain physician 09/2017; 20(6):E755-E796. (meta-analysis). Authors are presented by relative contribution. Impact factor: 2.79 (at 11/2018).

Dorit Pud, Eelena Broitman, Omar Hameed, Erica Suzan, **Joshua Aviram**, May Hadad, Rafi Shemesh, Elon Eisenberg: *Methylphenidate attenuates the response to cold pain but not to aversive auditory stimuli in healthy human: a double-blind randomized controlled study*. PAIN reports. 2017. (original article). Authors are presented by relative contribution. Impact factor: N/A (at 11/2018).

Joshua Aviram, Dorit Pud, Miriam Ogintz, Bareket Schiff-Keren, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Itay Goor-Aryeh, Howard Amital, Elon Eisenberg: *A Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain Treatment: Initial Results*. Rambam Maimonides Med J, 8, 1. (Abstract). Authors are presented by relative contribution. Impact factor: N/A (at 11/2018).

Joshua Aviram, Yaffa Zelig, Yosra Diab, Inna Tzoran, Amir Karaban: *Internal Ward Falls: Retrospective Characteristics Study*. Rambam Maimonides Med J, 8, 1. (Abstract).

Doron Meiselles*, **Joshua Aviram***, Dorit Pud, Elon Eisenberg: *Does Subjective Perception of "Pain Sensitivity" Correlate with Actual Sensitivity to Experimental Pain?*. Rambam Maimonides Med J, 8, 1. (Abstract). *Equal contribution. Authors are presented by relative contribution. Impact factor: N/A (at 11/2018).

Joshua Aviram: *Evidence based practice reviews highlights*. Israel Pain Nursing Forum. 03/2015; 15:42-43. (review). Impact factor: N/A (at 11/2018).

Eilon Eisenberg, Yelena Burstein, Erica Suzan, Roi Treister, **Joshua Aviram**: *Spinal cord stimulation attenuates temporal summation in patients with neuropathic pain*. Pain 01/2015. (original article). Authors are presented by relative contribution. Impact factor: 5.55 (at 11/2018).

Joshua Aviram, Tamar Shochat, Dorit Pud: *Pain Perception in Healthy Young Men Is Modified by Time-Of-Day and Is Modality Dependent*. Pain Medicine 12/2014. (original article). Authors are presented by relative contribution. Impact factor: 2.78 (at 11/2018).

Erica Suzan., **Joshua Aviram**, Roi Treister, Elon Eisenberg, Dorit Pud.: *Individually based measurement of temporal summation evoked by a noxious tonic heat paradigm*. Journal of Pain Research 07/2015; 8:409-415. (original article). Authors are presented by relative contribution. Impact factor: 2.64 (at 11/2018).

Conference Proceedings

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, David Meiri, Yacov Fogelman, Oren Tsvieli, Ben Yellin, Elon Eisenberg: *Medical cannabis for cancer and chronic non-cancer pain treatment: Real-life safety and efficacy*. Real-World Evidence and Medical Cannabis, Virtual webinar; 10/2020 (lecture, invited speaker).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, David Meiri, Yacov Fogelman, Oren Tsvieli, Ben Yellin, Elon Eisenberg: *Associations Between Medical Cannabis Chemovar effects on Chronic Pain Patients*. Medical Marijuana in Theory and Practice, Wroclaw, Poland; 11/2019 (lecture, invited speaker).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, David Meiri, Yacov Fogelman, Oren Tsvieli, Ben Yellin, Elon Eisenberg: *Associations Between Medical Cannabis Chemovar effects on Chronic Pain Patients*. The annual medical cannabis treatment conference, Tel-Aviv, Israel; 10/2019 (lecture, invited speaker).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, David Meiri, Yacov Fogelman, Oren Tsvieli, Ben Yellin, Elon Eisenberg: *Associations Between Medical Cannabis Chemovar effects on Chronic Pain Patients Treatment and Decrease in Analgesics Consumption: A Multi-Center Prospective Study of Patients with Chronic Pain*. 11th Congress of the European Pain Federation (EFIC), Valencia, Spain; 09/2019 (poster).

Joshua Aviram. *The Israeli Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain: Current Findings* Coping with Pain Conference (Cann10), Ruppin Academic Center, Israel; 1/2019 (lecture, invited speaker).

Joshua Aviram. *The Israeli Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain: Current Findings* The 3rd International Medical Cannabis Conference (Cann10), Tel-Aviv, Israel; 9/2018 (lecture, invited speaker).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, Yacov Fogelman, Oren Tsvieli, David Meiri, Ben Yellin, Elon Eisenberg: *Utilizing the Israeli Medical Cannabis (MC) Registry to Assess Treatment Response and its Predictors*. The 17th World Congress on Pain, International Association for the Study of Pain (IASP), Boston, United States; 09/2018 (poster).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay goor-aryeh, Dror Robinson, Leslie Green, Refael Segal, Yacov Fogelman, Oren Tsvieli, Ben Yellin, David Meiri, Elon Eisenberg: *Utilizing Medical*

Cannabis (MC) for Chronic Pain Treatment: Prospective Longitudinal Registry Study, Focus on Pain of Rheumatology Etiology. The 2nd Annual Conference of Medical Cannabis Use in Medicine, Herzliya, Israel; 03/2018 (lecture).

Joshua Aviram, Dorit Pud, Bareket Schiff-Keren, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, David Meiri, Yacov Fogelman, Oren Tsvieli, Ben Yellin, Elon Eisenberg: *The Israeli Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain: Current Findings.* The Annual Conference of the Israeli Association of Pain, Eilat, Israel; 11/2017 (lecture).

Bareket Schiff-Keren, **Joshua Aviram**, Dorit Pud, Miriam Ogintz, Simon Vulfsons, Tamar Yashar, Haim-Moshe Adahan, Silvio Brill, Howard Amital, Itay Goor-Aryeh, Dror Robinson, Leslie Green, Refael Segal, Elon Eisenberg: *Cannabis as a Pain Treatment In Israel.* The Eleventh National Clinical Conference on Cannabis Therapeutics, Berkeley, California; 05/2017 (lecture).

Joshua Aviram, Dorit Pud, Miriam Ogintz, Simon Vulfsons, Bareket Schiff-Keren, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Itay Goor-Aryeh, Howard Amital, Elon Eisenberg: *A Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain: Initial Results.* The Annual Conference of the Israeli Association of Pain, Eilat, Israel; 11/2016 (lecture).

Joshua Aviram, Dorit Pud, Miriam Ogintz, Bareket Schiff-Keren, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Itay Goor-Aryeh, Howard Amital, Elon Eisenberg: *Medical Cannabis (MC) for Chronic Pain Management: Characteristics of New License Applicants.* The 16th World Congress on Pain, International Association for the Study of Pain (IASP), Yokohama, Japan, 9/2016 (poster).

Bareket Schiff-Keren, **Joshua Aviram**, Dorit Pud, Miriam Ogintz, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Itay Goor-Aryeh, Howard Amital, Elon Eisenberg: *Clinical experience with cannabis in pain.* V Foro Social Internacional de Cannabis, Spain; 09/2016 (lecture).

Joshua Aviram, Dorit Pud, Miriam Ogintz, Bareket Schiff-Keren, Tamar Yashar, Haim-Moshe Adahan, Silviu Brill, Itay Goor-Aryeh, Howard Amital, Elon Eisenberg: *A Multi-Center Registry of Medical Cannabis (MC) for Chronic Pain: Initial Results.* The International Medical Cannabis Conference (Cann10), Tel-Aviv, Israel; 09/2016 (lecture).

Joshua Aviram, Yaffa Zelig, Yosra Diab, Inna Tzoran, Amir Karban: *Internal Ward Falls: Retrospective Characteristics Study.* 14th Conference of the Israeli Society of Nursing Research, Jerusalem, Israel; 09/2016 (lecture).

Joshua Aviram: *Cannabis for pain treatment: Randomized controlled trials systemic review and meta-analysis.* 13th Conference of the Israeli Society of Nursing Research, Beer Sheva, Israel; 09/2015 (poster).

Joshua Aviram, Igal Lifshits, Yuri Khomchuk, Inna Vishnevsky, Tziki Adler: *Nurse pain trustee: Is there a need for formal qualification?* 9th Congress of the European Pain Federation (EFIC), Vienna, Austria; 09/2015 (poster).

Joshua Aviram, Igal Lifshits, Yuri Khomchuk, Inna Vishnevsky, Tziki Adler: *Nurses attitude toward pain management*. 9th Congress of the European Pain Federation (EFIC), Vienna, Austria; 09/2015 (poster).

Dorit Pud, Erica Suzan, **Joshua Aviram**, Elena Broitman, Naor Demeter, Roi Treister, Elon Eisenberg: *Tolerability to pain is associated with decreased conditioned pain modulation: A healthy volunteers study*. 9th Congress of the European Pain Federation (EFIC), Vienna, Austria; 09/2015 (poster).

Joshua Aviram: *Cannabis for pain treatment: Randomized controlled trials systemic review and meta-analysis*. 9th congress of the European Pain Federation (EFIC), Vienna, Austria; 09/2015 (poster).

Joshua Aviram, Igal Lifshits, Yuri Khomchuk, Inna Vishnevsky, Tziki Adler: *Nurse pain trustee: is there a need for formal qualification?* Multi-dimensional pain treatment, The 12th research day, Rambam Medical Center, Rambam Medical Center, Haifa, Israel; 01/2015 (poster).

Elon Eisenberg, Yulia Burshtein, Erica Suzan, Roi Treister, **Joshua Aviram**: *Spinal cord stimulation attenuates temporal summation in patients with neuropathic pain*. The 11th research day, Rambam Medical Center, Haifa, Israel; 12/2014 (poster).

Joshua Aviram, Tamar Shochat, Dorit Pud: *Pain thresholds and fatigue in healthy subjects: the effect of time-of-day*. 8th congress of the European pain federation EFIC, Florence, Italy; 10/2013 (poster).

Joshua Aviram, Tamar Shochat, Dorit Pud: *Pain sensitivity in healthy young men is modified by time-of-day*. 5th World Congress on Sleep Medicine, Valencia, Spain; 09/2013 (poster).

Joshua Aviram, Dorit Pud, and Tamar Shochat: *Longer sleep duration is related to increased pain sensitivity in healthy young men*. 5th World Congress on Sleep Medicine, Valencia, Spain; 09/2013 (poster).

Conference Attendance

The 5th International Medical Cannabis Conference (Cann10), Virtual conference; 10/2020

Exploring the Mechanisms Underlying Analgesic Properties of Minor Cannabinoids and Terpenes, Virtual conference; 10/2020

Medical Marijuana in Theory and Practice, Wroclaw, Poland; 11/2019

The annual medical cannabis treatment conference, Tel-Aviv, Israel; 10/2019

11th Congress of the European Pain Federation (EFIC), Valencia, Spain; 09/2019

The 3rd International Medical Cannabis Conference (Cann10), Tel-Aviv, Israel; 9/2018

The 17th World Congress on Pain, International Association for the Study of Pain (IASP), Boston, United States, 09/2018

The 6th conference of Israel college of pain medicine (ICOP), Caesarea, Israel; 06/2018.

The 2nd Annual Conference of Medical Cannabis Use in Medicine, Herzliya, Israel; 03/2018.

The establishment of a joint Rambam-Technion program of machine learning in medicine, Haifa, Israel; 2/2018.

The Annual Conference of the Israeli Association of Pain, Eilat, Israel; 11/2017

10th Congress of the European Pain Federation (EFIC), Copenhagen, Denmark; 09/2017

The Annual Conference of the Israeli Association of Pain, Eilat, Israel; 11/2016

The 16th World Congress on Pain, International Association for the Study of Pain (IASP), Yokohama, Japan, 9/2016

The 1st International Medical Cannabis Conference (Cann10), Tel-Aviv, Israel; 9/2016

14th Conference of the Israeli Society of Nursing Research, Jerusalem, Israel; 09/2016

The 7th Annual Conference (north Israel) of the Israeli Association of Pain, Haifa, Israel, 02/2016

12th Annual Update Conference Series Clinical Neurology and Neurophysiology, Tel-Aviv, Israel, 02/2016

16th Annual Conference of the Nursing Forum for Pain Treatment, Haifa, Israel; 02/2016

The 12th research day, Rambam Medical Center, Haifa, Israel; 12/2015

The Annual Conference of the Israeli Association of Pain, Dead sea, Israel; 11/2015

13th Conference of the Israeli Society of Nursing Research, Beer Sheva, Israel; 09/2015

9th Congress of the European Pain Federation (EFIC), Vienna, Austria; 09/2015

15th Annual Conference of the Nursing Forum for Pain Treatment, Ramat Gan, Israel; 03/2015

"Round Table" of the Nursing Forum for Pain Treatment, Ramat Gan, Israel; 02/2015

Multi-dimensional pain treatment, Rambam Medical Center, Haifa, Israel; 01/2015

The 11th research day, Rambam Medical Center, Haifa, Israel; 12/2014

The Annual Conference of the Israeli Association of Pain, Eilat, Israel; 11/2014

12th Conference of the Israeli Society of Nursing Research, Naharya, Israel; 09/2014

"Round Table" of the Nursing Forum for Pain Treatment, Haifa, Israel; 09/2014

The Jerusalem Conference of the Israeli Association of Pain, *Cannabis*, Jerusalem, Israel; 05/2014

Opioids, Analgesia and Addiction: "Two Sides of the Same Coin?", Haifa, Israel; 03/2014

16th Annual Conference of the Israel Sleep Research Society, Tel Aviv, Israel; 02/2014

The Annual Conference of the Israeli Association of Pain, Eilat, Israel; 11/2013

8th congress of the European pain federation EFIC, Florence, Italy; 10/2013

The Annual Conference of the Israeli Association of Pain, Kefar Bloom, Israel; 11/2012

Courses taught in recent years

2019 Basics in clinical pharmacology. Mandatory introduction course. BA in nursing. 74 students. Ruppin Academic College (course coordinator).

2019 Basics in clinical pharmacology. Mandatory introduction course. diploma in nursing. 98 students. Hilel Yaffe Nursing School.

Army service

- 2003 - 2006* army medic in the 603 battalion of the combat engineering core of the Israeli defense forces (IDF)
- 2006 - present* active duty service in the reserves of the combat engineering core, battalion 8173 of the Israeli defense forces (IDF)

Volunteering

- 2008 - 2009* Home teaching for sick school aged young kids in the "Tlalim" organization.
- 2009 - 2010* providing support for the elderly in the "Eshel" organization
- 2010 - 2011* Home teaching for school aged young kids with cancer in the "Israel Cancer Association"