

June. 2024

Shlomo Lewkowicz, D.Sc. - Curriculum Vitae

Summary of my work experience

- I have been active in the invention, development, **commercialization and marketing of medical devices for over 40 years.**
- I hold a **joint D.Sc. degree from the school of medicine and the Dept. of Bio Medical Engineering,** Technion in Haifa Israel
- Over the last forty years, I have managed numerous major projects in the BME device industries and in Hi-Tech companies. I **have extensive global experience** in the following fields: product definition, clinical assessment, product development, clinical studies, regulatory strategy, and business management, marketing and sales. My responsibilities in these projects included management, technical design, business development, human engineering, marketing strategy, clinical considerations, ethical and legal issues, patents etc. (see attached list).
- Several High-Tech companies in the US and Israel have employed me in various positions including CEO, project manager, Application specialist, Marketing manager, Clinical Director and CTO, CSO. I **have worked with multi-disciplinary teams in more than 20 countries,** primarily in the US and European markets (including East Europe), and have marketing experience in Asia and Africa.
- There are 10+ granted patents that I was one of the inventors
- In 2003 I founded and have been managing 'Zav-Menia' (*Menia* in Hebrew = prevention), **an Israeli NGO dedicated to preventing colon cancer in Israel.** Over the last 10 years I have been the CEO of the organization as a volunteer, carrying out advocacy, raising awareness and providing broad health information to the general public in Israel.
- As a result **the Health Ministry has changed its policy** so that all adults aged 50-75 now have access to various screening modalities, including colonoscopy and FIT.
- The number of adults screened rose by 300% leading to **30-40% decrease in CRC incidence, saving over 15,000 men and women from CRC disease and death within these years**

Personal and professional information

- Shlomo Lewkowicz,
- In the course of my career, I have had **long term business relationships with health care professionals and business associates** in the biomedical field in many and various hospitals and other medical facilities, companies and health care organizations in numerous countries (see attached list).
- Over the last 30 years I am working as a **self-employed consultant** to numerous companies and to investors reviewing various medical projects.

**The following is a condensed list of the BME projects and range of
Fields of my expertise:**

A. Technologies:

BME field (& company name)	Applications and projects
Digital Imaging <i>Fidelity Medical (=CMT)</i>	<input type="checkbox"/> Digital video system for Catheterization, Archiving and PACS
Radiography <i>Fidelity Medical (=CMT)</i>	<input type="checkbox"/> Cardiac Cath. lab, R&F, Angiography, Mammography, X-ray Gastric screening
Cardio-vascular <i>University of Utah Symbion (Utah) Fidelity Medical Sealantis HVT Medical</i>	<input type="checkbox"/> Artificial Heart <input type="checkbox"/> Electronic Stethoscope, Lung sound, Acoustic detection of Coronary stenosis, <input type="checkbox"/> High speed blood pressure measurement, <input type="checkbox"/> Standard ECG, Portable and High resolution ECG (Late Potential) systems, <input type="checkbox"/> Atherectomy device for total occlusions <input type="checkbox"/> Biological glue for sealing leaking blood vessels <input type="checkbox"/> HIFU – for treatment of blood clots and for treating angiogenesis <input type="checkbox"/> Interventional cardiology device for valve modification during TAVI procedures
Bio Sensors <i>Carmel Biosensors Dune Medical NaNose Remon</i>	<input type="checkbox"/> Subcutaneous continuous Glucose monitoring <input type="checkbox"/> Implantable intra artery pressure and occlusion sensor <input type="checkbox"/> Indwelling “on-line” sensors for bleeding and specific cancer markers <input type="checkbox"/> Electronic Nose – diagnosis of diseases via breath samples
Gastroenterology <i>Given Imaging GI View Check Cap BetaStim E. Pill InSightec Stimatix TipCat EndoBetix SimpleFIT</i>	<input type="checkbox"/> Ingestible Video Capsule <input type="checkbox"/> Gastric screening <input type="checkbox"/> Colorectal cancer screening <input type="checkbox"/> Esophageal diagnosis and treatment <input type="checkbox"/> Controlled release of drugs <input type="checkbox"/> Electrical stimulation and morbid obesity <input type="checkbox"/> Stoma management <input type="checkbox"/> Colonoscopes of all types <input type="checkbox"/> Ingested capsules of all types <input type="checkbox"/> Home care FIT test kit with self-analysis and communication and no Yuck factor
Electro-Physiology Measurements and treatment <i>Alpha Omega Cathway</i>	<input type="checkbox"/> Extracellular and deep brain recording and stimulation <input type="checkbox"/> Deep brain stimulation for motor disorders <input type="checkbox"/> Neuro stimulation for pain management <input type="checkbox"/> Implantable central venous line with electrical field protection to prevent clotting and biofilm formation

Medical Information Systems	<ul style="list-style-type: none"> <input type="checkbox"/> SHAMIR – Medical Information Services <input type="checkbox"/> National Medical Hotline - Medical Information Center <input type="checkbox"/> NovaAlert – Drivers’ anti dozing device <input type="checkbox"/> Medorion – promotion of Patients' compliance via social network
Occupational medicine <i>BAR Technologies</i>	<ul style="list-style-type: none"> <input type="checkbox"/> Automatic Vision and Audiology testing
Biotechnology <i>Accelta</i>	<ul style="list-style-type: none"> <input type="checkbox"/> IVD kits, Hormonal therapy <input type="checkbox"/> Diagnosis of diseases using stem cells technology
Wound Care <i>SPM Recovery</i>	<ul style="list-style-type: none"> <input type="checkbox"/> Active oxygen treatment for non-healing wounds
Nano-Technology <i>AMIT – Technion</i>	<ul style="list-style-type: none"> <input type="checkbox"/> Electronic Nose – development of special sensors for VOC based on gold Nano-particles coated by sensitive organic polymers <input type="checkbox"/> Use of Nano-Particles for selective marking and detection of colon cancerous polyps and tumors
Pharmacology <i>AMIT – Technion</i> <i>Sealantis</i>	<ul style="list-style-type: none"> <input type="checkbox"/> Special organic compound derived from animal plasma to treat cancer cells (up to animal studies) <input type="checkbox"/> Cardio-protective agent derived from an Iso-Isomer developed in the Technion (up to animal studies)
Ophthalmology & Glaucoma <i>AMIT – Technion</i> <i>Sanoculis</i> <i>Sclerofix</i>	<ul style="list-style-type: none"> <input type="checkbox"/> Minimal invasive Surgical procedure to alleviate the excessive Intra ocular pressure <input type="checkbox"/> Miniature surgical implant to secure and stabilize the IOL after dislocation
Diabetes <i>Endobetix</i> <i>Calletech</i>	<ul style="list-style-type: none"> <input type="checkbox"/> Non-surgical Endoscopic implant for the treatment of type 2 Diabetes <input type="checkbox"/> Ingestible gel to form a semi-permeable barrier on the inner mucosal layer to reduce Glucose absorption

B Business experience

Subject	Services & Activities
Medical Economics and Business Development	<ul style="list-style-type: none">❑ Economical evaluation of projects, products and companies.❑ Screening of new technologies/applications,❑ Assessment of market potential and possible business arrangement❑ Coding, Coverage and reimbursement – the US medical insurance system
Biocompatibility	<ul style="list-style-type: none">❑ Implanted, Ingested and subcutaneous products❑ Sterility and shelf-life validation
Regulatory authorities	<ul style="list-style-type: none">❑ FDA & European MDD, related QA aspects
Patents	<ul style="list-style-type: none">❑ Applications, search, evaluation of claims and infringements❑ FTO, patent strategies
Clinical Studies	<ul style="list-style-type: none">❑ Human & animal studies according to approved protocols.❑ Managing all aspects of the studies: staff, equipment, infra structures, approvals, monitoring, reporting.❑ Multi center, International in the US, Israel, India and Europe
Trade Shows	<ul style="list-style-type: none">❑ Planning, organization, training
Marketing & Sales	<ul style="list-style-type: none">❑ USA, Europe, Far East, Mediterranean & Arab countries