

Israel's Medical Innovations: THE ICEBREAKER



INTRODUCTION *(Read aloud)*

Blue-and-white inventions are changing the face of healthcare in hospitals, doctors' offices, homes and even battlefields worldwide!

- Almost every advanced medical diagnostic device starting from the Amniocentesis was invented in Israel
- About 1,000 Israeli companies are in healthcare or life-science products, including 700 in medical devices
- Israel is first in the world for medical device patents per capita, and second in Europe for bio-pharma
- Israel has the highest percentage of special programs of doctors who go abroad to heal people in other countries.
- The amazing Israeli effort "Save A Child's Heart" has truly saved thousands of children from everywhere in the world
- IsraAID has provided medical centers for nations around the world, even to those considered Israel's "enemies" (terrorists/Syria / Gaza)

Israeli ingenuity is responsible for some of the world's most amazing medical advances. A device that can remove a small breast tumor in a 10-minute office visit; A small and nice gadget alerting parents when the diaper is full and it is time to change; a program that can help diagnose disease by listening to the sound of your voice; A pair of glasses that allows a patient with advanced ALS to use a computer; A shirt that allows measuring medical parameters such as ECG, heart rate and breathing at home for the use of people who have been diagnosed as suffering from heart disease or are at risk; and a small home ultrasound monitor enables self-examination of the fetus' heartbeat in a few minutes anywhere, at anytime.

These are a few examples of Israeli medical innovations that may shape the future of medicine. Technology within the field of medicine in Israel is also helping the world. Doctor's are being sent to neighboring countries to train others, give resources, and most importantly save lives. The Jewish state is changing the world of medicine and providing resources and training to those who don't have the proper necessities.

The world should applaud Israel's contributions to civilization, cherish and protect it. But sometimes people aren't aware of just how much Israel contributes to civilization and medical advances.

As Jews, you are by nature Virtual Citizens of Israel, connected in history, heritage and spirit to our ancestral homeland. Learn and be a part of advancing awareness of Israel's amazing innovations!

HERE ARE 3 WAYS YOU CAN HAVE FUN WITH ISRAEL'S MEDICAL INNOVATIONS!

Game 1: GETTING TO KNOW YOU

Go around the group and have each person share their response to 3 of the following questions:

- My name is....
- Most people don't know that in Israel, I...
- Does your name have a special meaning and or were you named after someone special?
- When I hear something about Israel, it makes me feel ...
- The funniest thing that ever happened to me connected to Israel was...
- The most important decision I ever made in my life was...
- The thing that makes me laugh is...
- My favorite Israeli food is....
- When I think of Israel I think of...
- The most amazing medical innovation from Israel I ever heard of is...
- Israel's innovations are a part of Tikkun Olam because...
- If you had a time machine that would work only once, what point in Israel's history or future would you visit ?

Game 2: WORD ASSOCIATIONS

Working as one large group, or broken up into smaller groups of 2 or 3, who can name the most examples that connect between Israel and these words:

Plastic
Blood
Walking
Strength

Innovation
Miracle
Ice
Hope

Life
Prevention
Caring
Friendship

Cure
Rescue
Solidarity
Personal connection

Game 3: ISRAEL MEDICAL GENIUS CHARADES

1. Print and cut up our Israel Medical Genius cards (on the next page)
2. Give everyone in the group a card
3. Each person has to pick a partner to act out the medical innovation listed on their card

Let the guessing games begin!

ISRAEL MEDICAL GENIUS CARDS

<p>Given Imaging <i>PillCam</i></p> <p>capsule endoscopy enables doctors to see inside patient without invasive surgery</p>	<p><i>Fingertip monitors</i> for monitoring sleep disorders and cardiac issues</p>	<p>First Care Products <i>Emergency Bandage</i></p> <p>designed to be easy to apply and stop bleeding from even severe traumatic wounds</p>	<p><i>Acute myeloid leukemia (AML)</i></p> <p>A new (unnamed) drug that could become part of a future cure for acute leukemia</p>
<p><i>ApiFix system</i></p> <p>corrects severe curvature of the spine (scoliosis) and minimizes risks, scar size, complications, recovery time and cost.</p>	<p>ARGO <i>ReWalk</i></p> <p>robotic exoskeleton enables paraplegics to stand and walk and is used by patients in rehab centers worldwide</p>	<p><i>Stem-cell therapy</i></p> <p>products to treat blood cancers, solid tumors, sickle-cell anemia, autoimmune diseases and genetic metabolic diseases</p>	<p>GI View <i>Aer-O-Scope</i></p> <p>disposable, self-navigating, flexible colorectal cancer screening device</p>
<p>IceCure Medical <i>IceSense3</i></p> <p>removes benign breast lumps in short ultrasound-guided procedure that penetrates the tumor and engulfs it with ice</p>	<p>InSightec <i>ExAblate OR</i></p> <p>uses MRI-guided focused ultrasound to destroy tumors and uterine fibroid cysts without surgery</p>	<p>IonMed <i>BioWeld1</i></p> <p>bonds surgical incisions using cold plasma (instead of stitches) to seal and disinfect wounds within minutes with minimal scarring and recovery time</p>	<p>Nano Retina <i>Bio-Retina</i></p> <p>implanted device that melds to the neurons in the eye and turns into an artificial retina by transforming natural light into an electrical impulse</p>
<p>NanoPass Technologies <i>MicronJet</i></p> <p>FDA-approved single-use needle for painless delivery of vaccines into the skin using semiconductor technology</p>	<p>OrSense <i>NBM-200</i></p> <p>non-invasive monitor for continuous and spot measuring of potential blood donors' hemoglobin level and other blood parameters</p>	<p>VitalGo Systems <i>Total Lift</i></p> <p>hospital-grade bed that can elevate patient from lying to fully standing positions for treatment and transfer with no lifting required of caregiver</p>	<p>Surpass Medical <i>NeuroEndoGraft</i></p> <p>flow diverters redirect blood flow from a brain aneurysm so that a stable clot can form</p>



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The Israel Forever Foundation develops and promotes experiential learning resources and initiatives to celebrate and strengthen the personal connection to Israel as an integral part of Jewish life and identity. Our content and programming aim to engage and inspire Diaspora Jews as Virtual Citizens of Israel to foster understanding, respect, involvement and pride in our ancestral connection with our heritage, history and homeland.