

Cardeovis Technologies Ltd

- ***Surgeon Laser Machine***



- **Company Presentation, 2021**

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Surgeon Laser Machine

Mine eye and heart are at an SLM

With apologies to William Shakespeare's Sonnets

Mine eye and heart are at a mortal war.... XLVI (Sonnet 46)

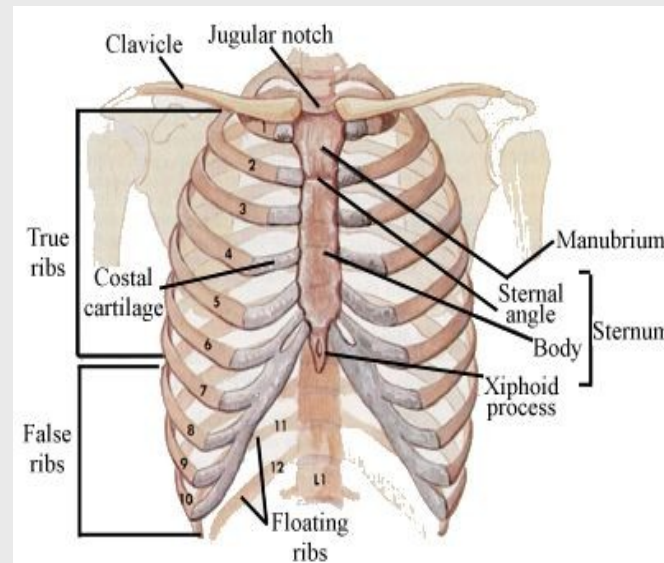
Company Presentation, 2020

Cardeovis Technologies Ltd

Surgeon Laser Machine

Vision

To provide an efficient, innovative high quality product for midline sternotomy.



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Current Technology Of Midline Sternotomy

Midline sternotomy is one of the most critical phases of open heart surgery. It consists of a vertical skin incision made from the suprasternal notch towards the xiphoid process with subsequent longitudinal dissection of the sternum using an oscillary cast cutter. The incision itself may have unlimited consequences peri and postoperatively and meticulous incision is mandatory to avoid early and long run complications.

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Unmet Needs Of Conventional Sternotomy:

- Rough balky sternal incision
- Debilitating effect on patient's recovery after surgery with poor quality of life
- Prolonged sternal and chest wall pain (80% of patients)
- High complication rate of up to 5% with mortality rate from 7% to 68%
- 9% incidence of sternal fracture

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LASER Innovative Technique For Midline Sternotomy

The SLM is a new robotics surgical instrument

It includes:

- Optical Part: the Laser, the Optical Interface and illumination optics
- A Control System for Optical Part movement control
- Auxiliary hardware and software for proper laser navigation during surgery

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The Competitive Edge

<i>Features</i>		<i>Benefits</i>
Laser Cutting System	→	Longitudinal section width is 0.2 mm max, instead of conventional 2mm
	→	Better healing
	→	Less complications
	→	Accurate predefined incision
	→	No need for position correction
	→	No need for 3-dimensional information
	→	Coagulation as a by-product
	→	Full robotic surgery
	→	An accurate and quicker cutting procedure

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▪ **The Competitive Edge** (cont.)

<i>Features</i>		<i>Benefits</i>
New accessories	→	Better sternum stability
	→	No vertical movement of the sternal halves
	→	No horizontal movement of the sternal halves
	→	No need for wire holes
	→	Precise apposition of the sternal halves
	→	Precise dimensions
	→	Plain disassembly
	→	No need in drilling instruments
	→	A much easier and quicker fixation procedure

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Competition

Major companies:

Novosurge Ltd.

Aesculap Inc.

Striker Corporation

**None combine the features
and benefits of our system**

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Surgeon *Ltd* Laser Machine

The Opportunity

- Improving life quality of millions of people around the world
- Solution to many clinical needs, not only to open heart operations, two in one device
- Strong intellectual property
- PCT patented system
- Large market: US\$9-22 billion in US & Europe
- Highly professional team

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Target Markets For The 1st Product: SLM

Operating Rooms and Wards

***Total Market USA & Europe:
US\$9-22 billion***

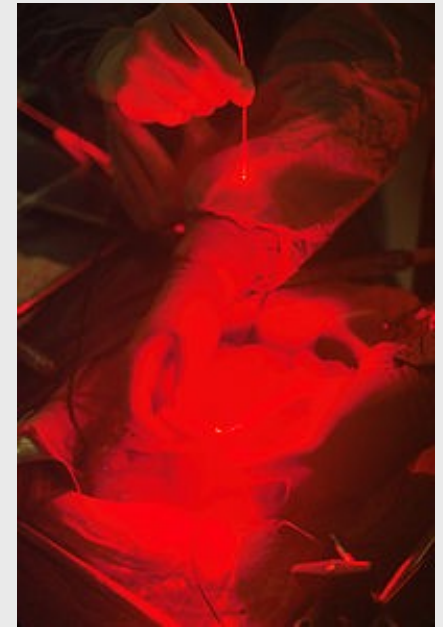


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Product Stream

- In process:
SLM for open chest operations
- Pipeline:
 1. SLM for bloodless surgery
 2. SLM for cosmetic skin treatment
 3. SLM for cancer treatment
 4. SLM for dermatology



Laser radiation being delivered, via a fiber, for photodynamic therapy to

treat cancer.

Total estimated market in US & Europe: \$4 billion

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Management Team

- Boris Fradkin, M.Sc.E.E., - Founder, CEO & CTO
- Eldad Rechavia M.D. – Director of ICCU and In Charge Cardiology Department, Hasharon Hospital, Rabin Medical Center , Chief Adviser
- Prof. Gideon Sahar M.D., Head of Cardiothoracic Surgery Department - Soroka Medical Center, Senior adviser
- Prof. Naftaly Menn, PhD. Co-founder, CEO and CTO of AMS, subcontractor
- Prof. Rona Shofty, DVM, PhD, Medical Faculty, Technion, subcontractor

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What Are We Looking For?

First round of investment of US\$ 1 million for continuation of R&D and producing the working prototypes

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Thank You!

For further information,
please contact

Mr. Boris Fradkin, CEO

Tel. +972-54-4720-827

E-mail: fradkin@netvision.net.il

