Perfusion Tech

- lowering risk of bleeding related surgical complications

CVX Ventures

Perfusion Tech management team

The management team coordinates between our medical team, software team, and the board. Management: 5 persons

R&D: 10 persons. Board: 5 persons



Thomas Jonassen, MD
Co-owner of Perfusion Tech
Associate Professor, Univ Cph
15+ years in Biotech- Cofounder of 4
Biotech Companies



Mads H.A. Madsen, PhD
Founder & co-owner of Perfusion Tech
PhD in physics, expert knowledge in
advanced image analysis and
fluorescence technology



Jeppe Øvli Øvlesen, MBA
Co-owner of Perfusion Tech
20+ years of CEO experience. Founding
Board Member/Co-founder of more
than 15 biotech/MedTech companies
with successful past ventures



Morten A.V. Lund, MD
Founder & co-owner of Perfusion Tech
Clinical research and study design
experience

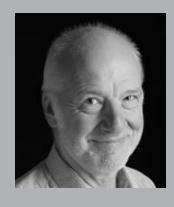


VP Business Development
Pernille Singer
Co-owner of Perfusion Tech
20+ years MedTech leadership
experience from larger international
MedTech companies

Scientific advisory board



Clinical Advisor
Ismail Gögenur, MD, DMSc
Professor and consultant
Department of Surgery, Zealand
University Hospital.. Head of Center for
Surgical Science, Region Zealand.



Clinical Advisor
Michael Hasenkam, MD, DMSc
Professor at Department of Clinical Medicine
& Department of Thoracic and Cardiovascular
Surgery at Aarhus University



Clinical Advisor
Ronald Borra, MD, PhD
Senior Consultant, Professor of
Experimental Radiology & Nuclear
Medicine & Molecular Imaging at
University of Turku (FI) & Groningen (NL)

Perfusion Tech in brief

- MedTech company established in Copenhagen in 2017
- Invented a ground-breaking new image analysis technology for real-time quantification of tissue perfusion during surgery
- Technology has potential to significantly lower bleeding related surgical complications thereby saving time, money and lives
- Solid patent portfolio protects technology platform
- Very lean company owned by the founders
- Highly experienced team with a proven track record
- Currently raising 15 mDKK (10 mDKK in capital + 5 mDKK in loan) for commercialization of 1st generation- and development of 2nd generation software
- Aiming for a total or fractioned exit within 2 years

Technological advancements has taken surgery to new levels however, bleeding related complications continue to be a frequent and critical consequence

Bleeding is a complication of surgery that can lead to substantial morbidity and mortality

- Blood vessels are fragile and often hidden in other tissue
- Up to 50% of surgery time is spent lozalizing blood vessels to avoid tearing
- Bleeding related complications occurs in 1 out of 3 surgeries
- Serious bleeding related complications increases mortality with 20%





Bleeding related complications pose a significant global health burden

Surgical volume is large and fast growing in all economic environments

- Bleeding complications occur in \sim 30% of surgeries²
- Prolongs hospitalization with \sim 3.4 days² after serious bleeding related complications
- Increases hospitalization cost with ~30%²
 equaling ~€2.000 per patient



Annual # of surgeries globally 1

313 million

Annual # of surgeries with bleeding related complications

94 million

Additional cost per surgery

€ 2.000

188 billion

Note I – Weiser et al 2012. Lancet. Note 2 – Ye et al 2013. BMC Health Services Research.

Avoiding bleeding related surgical complications - a market opportunity

"Today we have NO way of assessing the perfusion in the tissues during the surgical procedure. Such a method would be of immense help in guiding our surgical procedures"

"A system providing objective quantification of perfusion during surgery is expected to become standard of care within 5 years"

"Ease of use and integration into existing equipment is paramount."

"Such a system would be of highest interest and used in "all" or "almost all" procedures where knowledge of bowel perfusion could be of interest, not limited to anastomotic surgery"



Perfusion Tech's Al¹ technology can lower risk of bleeding related complications

Tissue perfusion is quantified & blood vessels visualized from existing surgical images

- Stand-alone software applies advanced image analysis to existing surgical video feeds
- Injection of small doses of fluorescent dye (ICG) creates signal changes invisible to the surgeon, but detectable by Perfusion Tech's AI^I software
- Blood vessels and perfusion areas are shown on the surgeon's normal white light images
- Superior data tracking algorithm eliminates tissue movements during measurements



Note I – Artificial Intelligence

blood supply

PerfusionWorks 1st generation software for intrasurgical perfusion assessment available within EU



- Stand alone product for real-time quantification of tissue perfusion in areas defined by the surgeon
- Assists the surgeon in making informed decisions lowering risk of personal errors
- Easy-to-use product developed with leading surgeons to fit existing workflows
- Indicated for use within a broad range of surgical specialities
- Compatible with existing surgical image systems¹
- Product CE marked

Note I – Tested with systems from Intuitive Surgical, Olympus and Karl Storz

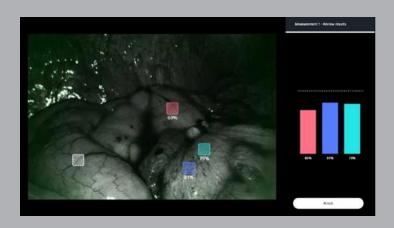
How PerfusionWorks software works



I. Surgeon selects regions of interest



2. ICG is injected and measurement begins



3. Tissue perfusion is quantified and presented immediately



Starting within colorectal cancer, we have moved into other surgical areas...

2017



Filing of patent application #I Real-time perfusion quantification at key timepoints

2017-2019



development
Feasibility study
80+ patients, 2 DK sites

Software

2020



Indicated for use within colorectal cancer surgery

2019-2021



Clinical study within colorectal cancer 100 patients, 2 DK sites: "Perfusion metrics vs. physiology in right-sided GI surgery"

2021



Extension of indication for use

2021-2022



colorectal cancer
250 patients, 4-6 sites:
"Perfusion quantification to reduce
anastomotic complications"

Multi-center study



Study - Thyroid surgery Univ. Hospital Groningen, NL

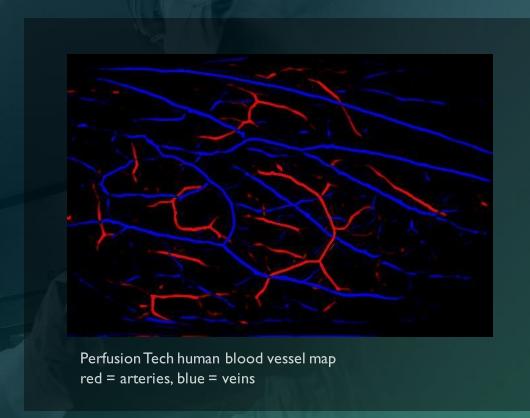


Study - Amputation surgery Univ. Hospital Groningen, NL

Our 2nd generation software takes perfusion assessment to the next level opening up a whole new area of ICG-enhanced surgical vision...

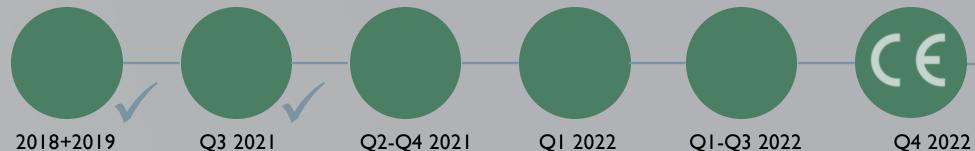
Makes the invisible visible to the surgeon

- Repeated ICG-microdoses creates oscillating fluorescent signals invisible to the surgeon, but detectable by Perfusion Tech's software
- Enables real-time visualization of blood vessels in challenging surgery (obesity, reoperations etc.)
- Enables continuous monitoring of tissue perfusion and alarms surgeon in case of low perfusion
- Market introduction by 2023



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Our 2nd generation software is in development...



Patent #2 & #3:

"System and method for automatic perfusion measurement"

"System and method for identifying blood vessels during fluorescence imaging" Q3 2021

Animal test

Software developmet

Feasibility study 30+ patients at DK & NL sites

QI 2022

Final software

Clinical study 50+ patients at DK & NL sites

Surgical specialities in focus:

- Heart-surgery, re-operations
- Vascular surgery

PerfusionWorks 2.0



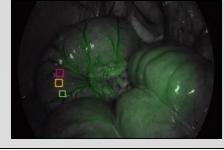
Preliminary results from animal study

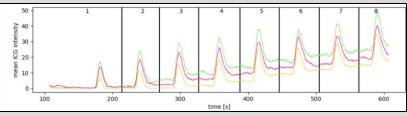
- Status on tissue perfusion provided every minute



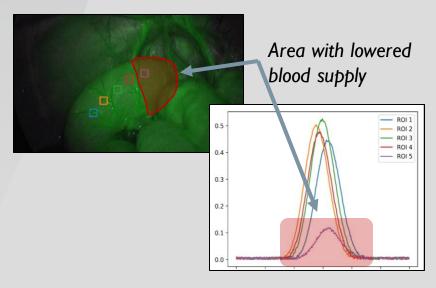
Animal study

- Feasibility study in 12 pigs & 4 organs
- Hardware test
- Generation of data for software development





Baseline: Normal perfusion in all areas



Difference between normal and lowered blood supply

The International Society for Fluorescence Guided Surgery Announces Publication of Consensus on Fluorescence Guided Surgeries (FGS) in Annals of Surgery

November 19, 2020; Fort Lauderdale, FL, USA: The International Society for Fluorescence Guided Surgery (ISFGS), the leading organization dedicated to the global advancement of fluorescence-guided surgery, is pleased to announce the publication in Annals of Surgery, "Consensus Conference Statement on the general use of near-infrared fluorescence imaging and indocyanine green guided surgery: Results of a modified Delphi study".

"This publication confirms that fluorescence-guided surgeries will dramatically alter the way surgeries will be performed in future", said lead author Raul J. Rosenthal MD FACS, Clinical Professor of Surgery at the Lerner College of Medicine at CWRU and Department Chairman of General Surgery at Cleveland Clinic in Weston, Florida. "We are delighted that this eminent group of surgeons, came to the consensus that near-infrared-fluorescence-guided surgery is effective and safe across a broad variety of clinical settings and results in safer surgeries with improved outcomes for the patient", Dr. Fernando Dip, President of ISFGS continued.





Solid IP portfolio protects our technology platform

- Broad coverage of technology platform
- Key patents issued in EU and US
- > 15 years of patent life





Perfusion Tech's technology taps into the highly attractive and fast growing surgical robots market

- Market projected to reach USD 14.4 billion by 2026 from USD 6.4 billion in 2021 at a CAGR of 17.6%
- Paradigm shift within surgical robots driven by technological advancements within 3D imaging, data recorders and data analytics systems
- Growth drivers of the surgical robots market are...
 - increasing demand for minimally invasive surgeries ensuring greater accuracy, repeatability, control and efficiency
 - advanced visualization capabilities that provide surgeons with superior view of the operating area

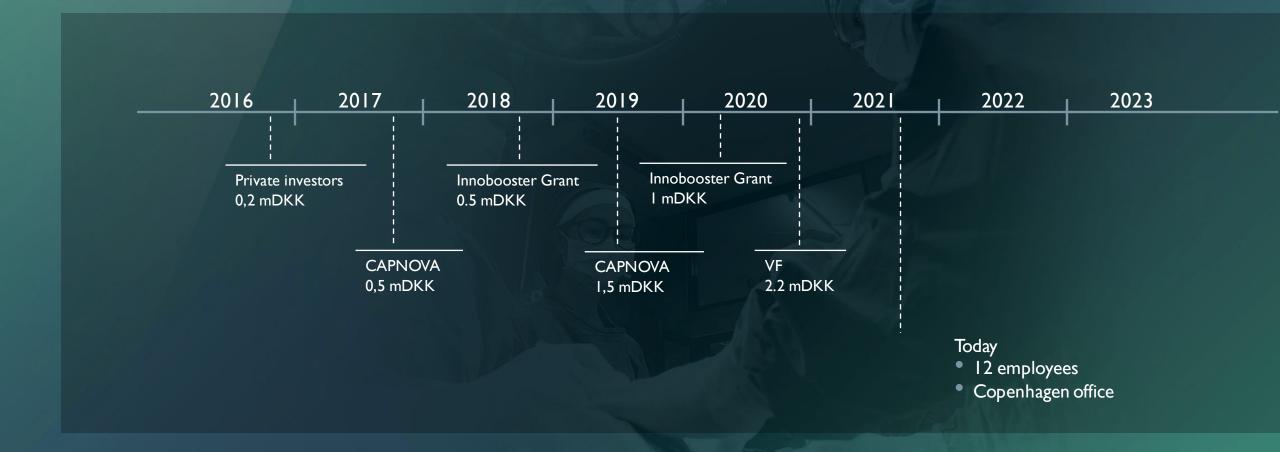


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Comparison of Perfusion Tech's technology with key competitors

Parameter	Perfusion tech	INTUITIVE SURGICAL®	stryker	Medtronic	OLYMPUS
Show blood supply in a discrete area	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Measure blood supply in a discrete area	\checkmark	(√)	×	(√)	×
Visualise blood vessels in all areas	\checkmark	X	X	×	×
Measure blood supply in all areas	\checkmark	X	X	×	×
Alarm in case blood supply is absent	\checkmark	×	×	×	×

6 mDKK of investment capital has been onboarded



Goals for coming period – use of investment proceeds

Activities	2021	2022	2023	2024	
PerfusionWorks sales promoting activities		I.5 mDKK			17.00
Progress PerfusionWorks clinical multicenter study QUANTICO within colorectal cancer		3.5 mDKK			
Clinically document PerfusionWorks within focus indications (Thyroid-, and Amputation surgery)		2.0 mDKK			
Finalize software integration with PACS and DICOM storage and sharing platforms		I.0 mDKK		ercial partnership tablished	
Progress 2 nd generation software development for blood vessel mapping & perfusion surveillance		2.0 mDKK			
Clinically document 2 nd generation software within Abdominal surgery in obesity and Heart re-operations		5 ml	OKK		
Cost	I mDKK	7 mDKK	7 mDKK		



Potential takers identified

In parallel with own sales activities dialogue is ongoing with top-four players





















SURGICAL



Investment opportunity

- Patent protected disruptive image analysis technology platform for intrasurgical perfusion assessment
- Very lean company owned by the founders
- PerfusionWorks first generation software for real-time perfusion quantification within selected areas CE marked
- Market introduction of next generation software for blood vessel mapping and continuous perfusion surveillance by 2023
- Software platform compatible with existing image systems & systems for storage and sharing of surgical images
- Experienced team with proven track record
- 2 years to exit / partnership with first commercialization partner
- Validated potential ~ \$130 million
- 20X exit opportunity

Thank you

