AGM 2019 – CEO MAGNUS NILSSON

"We believe NO ONE SHOULD HAVE TO DIE WAITING FOR A NEW ORGAN"

April 25, 2019



Summary of XVIVO Perfusion

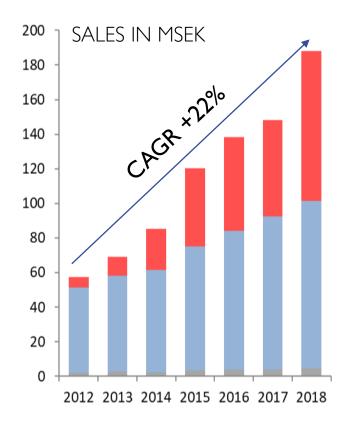
High market demand

- Currently only10% of need met*

XVIVO has an Unique Patented, Approved and Documented technology for making more organs available

XVIVO market leader in Lung Tx and the only supplier with FDA approval for warm perfusion of marginal Lungs ex-vivo

Strong R&D pipeline for future growth
Several product dev. project in clinical phase



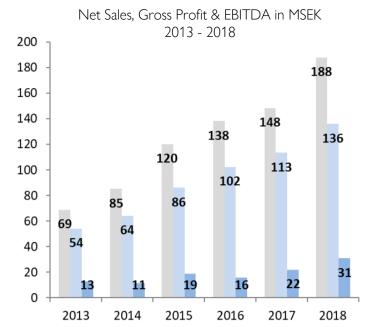




XVIVO performance

- Sales growth from warm perfusion products, last 12 months +58%
- EBITDA positive during high investments in Development and M&S
- Profitable growth every quarter since 2003







XVIVO invests for future growth

XVIVO invests in development of IP protected unique products with the vision that nobody should die waiting for an organ.

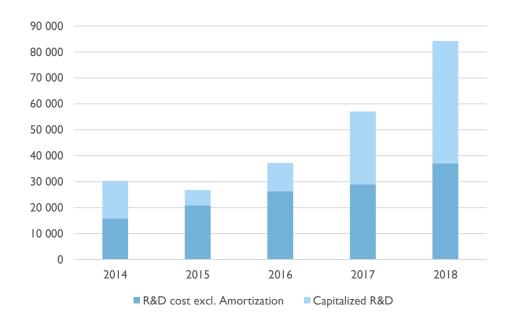
R&D cost excl. amortization – 2014/2018 CAGR 24%

Development of the existing product portfolio e.g. new features on the XPS, EVLP clinical studies, Steen Solution for abdominal organs etc.

Capitalized R&D – 2014/2018 CAGR 34%

Development and regulatory approval of new products e.g FDA approval of XPS and STEEN Solution, Heart preservation project, and PrimECC

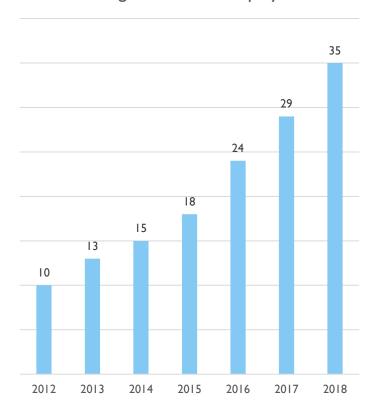
In thousand SEK





A growing & diverse organization

Average number of employees



Employees per location

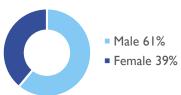


Employees per function



- Sales & marketing 37%
- R&D 36%
- Finance & administration 15%
- Operations 12%

Employees by gender













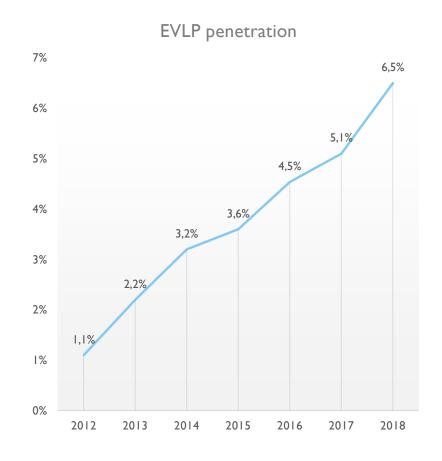


Development of EVLP on the total market*

In 2018 an estimated 6 300 lungs were transplanted world wide

Around 400 of those lungs came from EVLP

EVLP market penetration is estimated to 6,5%, up from estimated 1,1% in 2012

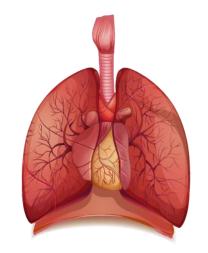


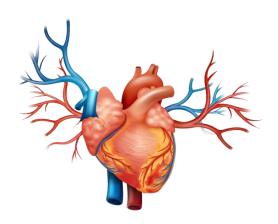




Highlights 2018

- Net Sales grew +27% (+23% in LC*)
- Strong growth for non-durable Warm perfusion sales +48%
- PMA application for STEEN Solution[™] and XPS[™] submitted to the FDA
- The PrimECC® study shows that the product is safe and displays positive clinical results
- United Therapeutics and XVIVO Perfusion initiated collaboration on EVLP







^{*} Local currency

PERFADEX® PLUS launch in 2018

A ready to use Perfadex® with increased patient safety and customer convenience

Successfully launched in Europe and USA

Well received by customers and clinicians

Ready to use and click port – reduced complexity and preparation time while increasing patient safety

Patent applications filed



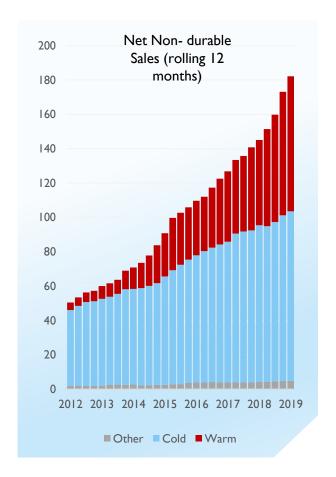


2019 - Q1



Highlights 2019 - QI

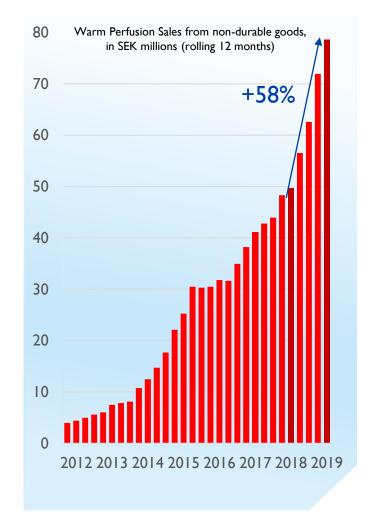
- Reimbursement for the whole EVLP process approved in France
- Results from first six patients in the heart preservation study were presented during ISHLT showing that the method is safe
- High interest from to the world's leading heart transplant surgeons after XVIVO Perfusion's heart preservation machine was showed for the first time
- Continued strong EBITDA even though high investments in organizational capacity and research





Sales highlights 2019 - Q1

- Net Sales non-durable goods +24% (+13% in LC*)
- Warm non-durable growth +52% (+40% in LC*)
- Warm non-durable growth rolling 12 month + 58% (YoY)







Profit & loss

Non-durable Sales +24%

Continued high Gross Margin

Continued customer support build up

R&D clinical and product development build up

Lung Tx business profitable despite high investments in Marketing and R&D

	2019	2018	2018
(SEK Millions)	Jan-Mar	Jan-Mar	Full year
Net sales	47.6	42.5	187.9
Net sales non-Durable goods	46.8	37.9	172.7
Gross profit	36.9	30.1	136.0
Gross Margin %	77%	71%	72%
Gross Margin non-Durable goods %	77%	77%	77%
Selling expenses %	-25%	-24%	-26%
Admin. expenses %	-11%	-11%	-12%
R&D exp. excl. Amort. ** %	-25%	-21%	-20%
Items effecting comparability * %	-12%	0%	0%
R&D Amortization ** %	-6%	-6%	-6%
Other expenses excl. Items effecting comp. * %	-2%	-1%	-2%
Operating Result %	-4%	7%	7%
Operating Result * %	8%	7%	7%
EBITDA excl. items effecting comperability	8.8	7.2	30.9
EBITDA excl. items effecting comperability %	18%		
EDITOA	0.0	7.0	20.0
EBITDA	3.2	7.2	30.9
EBITDA %	7%	17%	16%

Items effecting comparability are **5.5 MSEK** due to the increased share price. The AGM 2017 and 2018 approved a share based bonus program to employees outside Sweden, mirroring the Swedish warrant program.

*Items effecting comparability: 5.5 (0.0) MSEK.

**R&D Amortization: 3.0 (2.7) MSEK.



ISHLT* 2019

Increasing interest for EVLP and the new Heart preservation technology

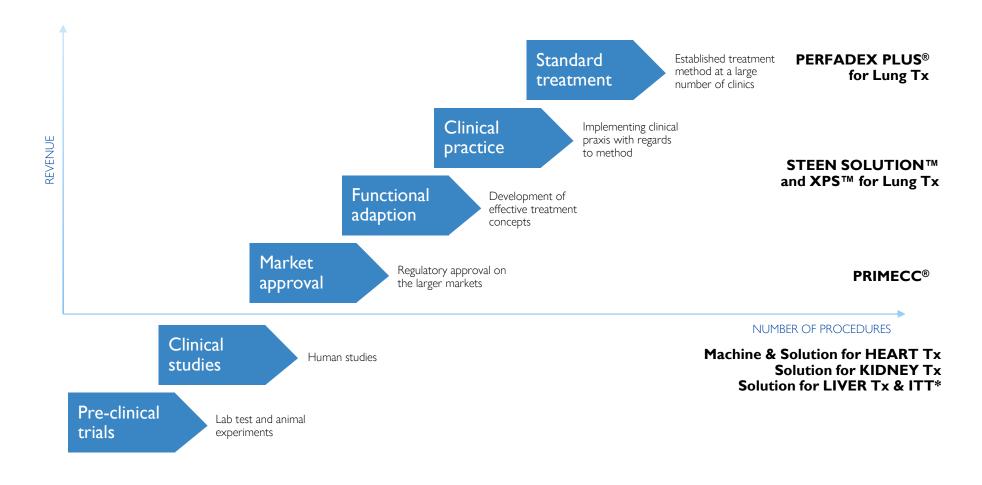
- High and increasing interest for clinical EVLP
 - » Utilization of DCD** & Hep. C donors
 - » Protective ventilation during EVLP
 - Immunology in EVLP
- Excitement for XVIVO's new heart technology
 - Prof Stig Steen presented his groundbreaking research
 - Prof Johan Nilsson (Lund) presented the good results from the first six heart machine patients







Typical development steps – Medical device Class III



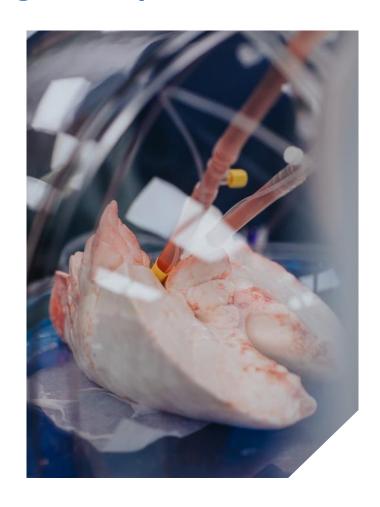


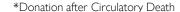
^{*} ITT or Isolated Tissue Therapy is a therapy where one part of he body is isolated for treatment in order to avoid side effects.

XVIVO enable future growth within lung transplantation

XVIVO will continue to clinically develop EVLP:

- Expanded use of DCD* lungs for transplantation
- Ex vivo infection therapy e.g. Pneumonia therapy and virus reduction
- EVLP protocol development
- Investigate immunological response during EVLP targeting short term organ function & long term survival
- Continued development of the XPS[™] to enable online parameters for better decision making.



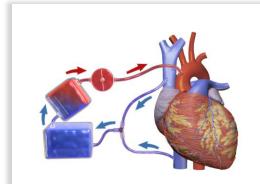


XVIVO – The R&D pipeline



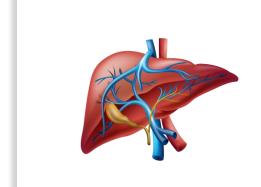
Priority I

Heart Transplant project, optimized preservation to prolong time outside the body



Priority 2

PrimECC®, optimized priming solution to reduce known side effects



Priority 3

STEEN Solution™
for Liver and Kidney
Transplant, evaluation of
marginal and
DCD organs



Priority 4

ITT* – Perfusion of isolated organs / tissues (e.g. Drug administration) with STEEN Solution™

*Isolated Tissue Therapy



Development stage: Early Clinical Phase

XVIVO - Heart transplantation

Heart perfusion and preservation solution and device developed by Prof. Steen

Pre-clinical proof of concept studies indicate:

- » No non-oxygenated time → Better organ quality
- » Longer preservation time possible (24h in pigs)
- » Pig to Monkey transplant 6 month survival study

Results from the clinical safety study at Lund University Hospital on 6 patients indicate:

- » Hearts can be safely preserved with the NIHP* method resulting in successful transplantation
- » Reduced risk for ischemic induced reperfusion injury







XVIVO - Heart transplantation

Q1 Accomplishments

Pre-clinical and technical testing successfully performed

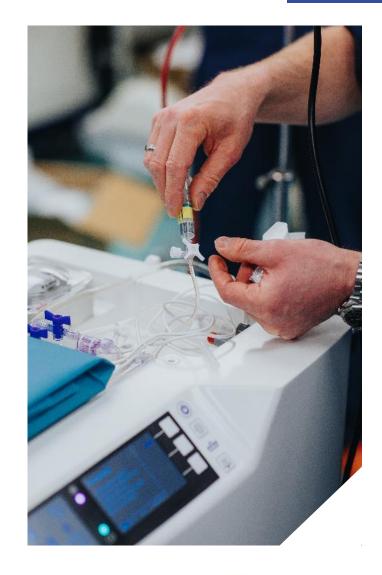
XVIVO Perfusion's heart preservation machine demonstrated

→ High interest from leading heart transplant surgeons worldwide

Next steps

Production ramp up of machine, disposable and solution

Clinical trial preparation in Europe, Australia and the US





PRIMECC®

Serval hundred thousand operations using a heart-lung machine are performed each year. PrimECC® is developed to prime the heart-lung machine before open heart surgery.

Accomplishments

- Patented
- CE marked
- Clinical study with 40+40 patients showed
 - o PrimECC® is safe to use
 - o Improved fluid balance and reduction of side effects using a heart-lung machine primed with PrimECC®

Ongoing tasks

- Setup of large scale production in eco friendly bags
 - o Validation batch planned for Q2
- Preparation for clinical documentation program
 - o High interest from clinics that will participate in multicenter study



Outlook 2019 - Focus areas

Thoracic Transplantation / Surgery (Primary focus)

- Lungs Further develop the EVLP technology
- Heart Preparation for multicenter study for regulatory approval on all major markets
- PrimECC® Preparation for multicenter study for clinical documentation

Abdominal Transplantation & new indications (Secondary focus)

 Continued support for clinical development of Liver Tx and Kidney Tx with STEEN Solution technology

Long-term goals

- Solidify position in Thorax surgery (Lung Tx, Heart Tx, PrimECC ®)
- Build a new business using the STEEN SolutionTM technology in Liver and Kidney Tx



