

Disclaimer

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Agenda

14:00 - 14:20	Strategy & financials	Dag Andersson – CEO Kristoffer Nordström - CFO
14:20 - 14:40	Machine perfusion strategy	Johan Holmström - CCO
14:40 - 15:00	Beyond Product: STAR Teams and Avionord M&P	Christoffer Rosenblad – Global Bus. Dev. & Service Dir.
15:00 - 15:15	Regulatory Strategy	Katrin Gisselfält – Global QA/RA Director
15:15 - 15:45	XVIVO Heart technology: The power of oxygenation and the clinical trials	Andreas Wallinder - CMO Jaya Tiwari - VP Clinical & RA USA Guest Speaker - Prof. David McGiffen (Alfred Health, Melbourne, Australia)
15:45 - 16:00	Capital Markets Day Summary and Q&A	



This is XVIVO

Business area



Thoracic



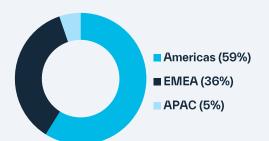
Abdominal



Services



Main markets 2022



Founded

1998

Employees

~120

HQ in Gothenburg

Sweden

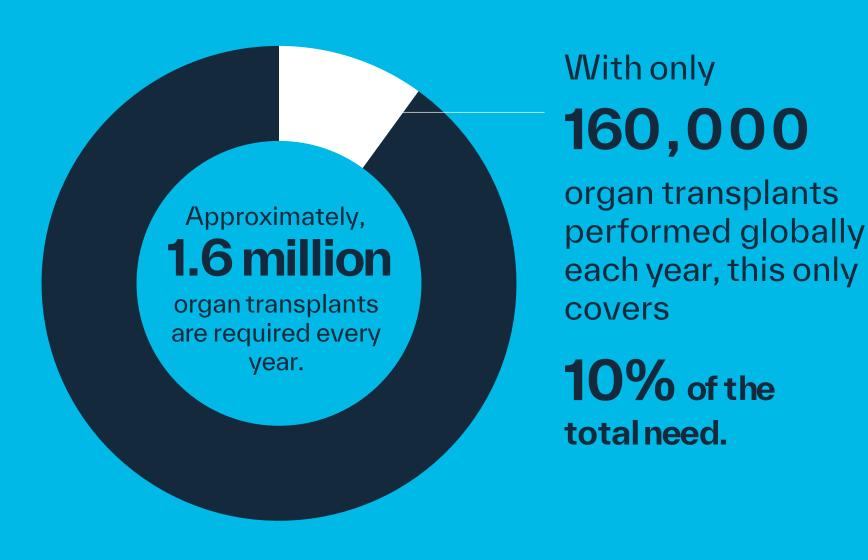
The share is listed on

NASDAQ Stockholm mid-cap



The challenge

The need



Organ utilization rates

Global Average (2015-2021)



Limiting factors



Organ quality



Capacity



Logistics

Clinicians lack the confidence to use marginal organs

Transplant clinics have limited resources to recover, preserve, and perfuse organs

Limitations on 'out-of-body time' create constraints on allocation and distribution opportunities



Our offer: We enable safe use of more organs



We increase the availability of organs



We improve organ preservation



We improve organ function and survival



Markettrends

Market trends in transplantation



Machine Perfusion



Political Ambitions – Policy & reimbursement



Services



Digitalisation



Xenotransplantation



Strategy

Achievements last 12 months

- Abdominal launch USA with Kidney Assist Transport FDA 510(k) clearance
- Strong double digit growth
- Continued investment in clinical, R&D, and commercial organisation
- Significant progress in heart trials Europe & Australia/ New Zealand
- Completion of 2 acquisitions: STAR Teams and Avionord M&P





Sharpened strategic objectives

2021 2022 Global leader Market leader abdominal (Initial abdominal focus USA) Change the Market leading heart paradigm of heart preservation system preservation Preferred partner in *Increase penetration* the transplant of machine perfusion process Secure all inclusive Accelerate market reimbursement in key leadership lungs geographies China to become New market second largest expansion market



Organisation - Extended Management Team



Dag Andersson CEO



Katrin Gisselfält Global QA/RA Dir.



Charlotte Walldal Global R&D Dir.



Christoffer Rosenblad Global Bus. Dev & Service Dir.





Kristoffer Nordström CFO



Jaya Tiwari **VP Clinical & Regulatory Affairs** US



Andreas Wallinder CMO



Johan Holmström CCO



Vacant

COO

Rob Baumann Sales Director

Estelle Peslerbe

Sales Director North America Europe



XVIVO as an investment

Strengthen leadership position in a rapidly growing market

XVIVOs product & service offer increases utilization and availability of organs

High margin products create foundation for continued profitable growth

4

Unique R&D portfolio with products ready to launch in a near future



Financials

Kristoffer Nordström, Chief Financial Officer

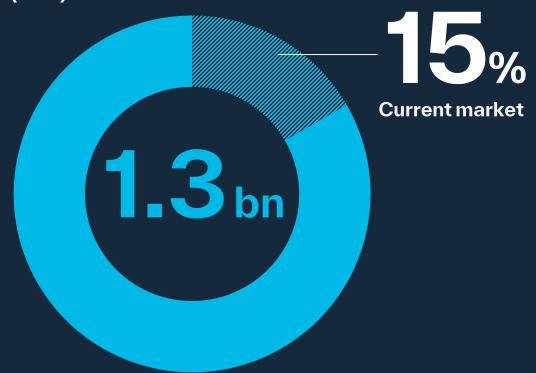


Profitable growth - The XVIVO way



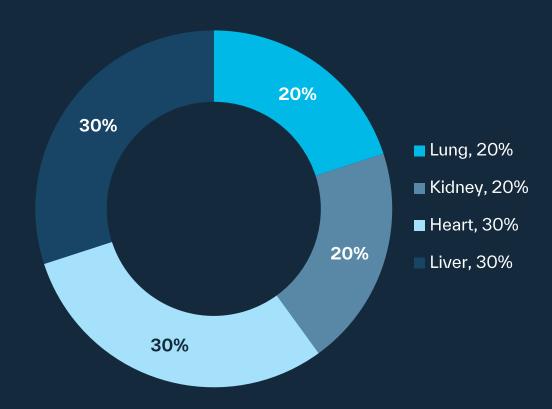
Market value - Machine perfusion

Total market value potential of machine perfusion* (USD)



*Deceased donors. Solutions and disposables only (no machines or static preservation)

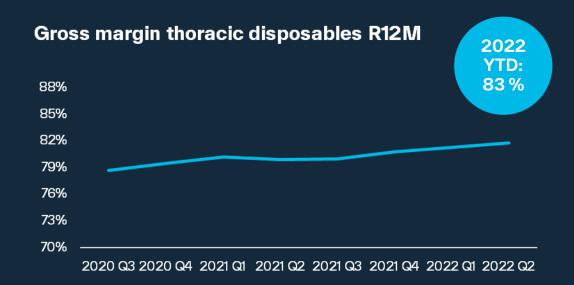
Market potential value split

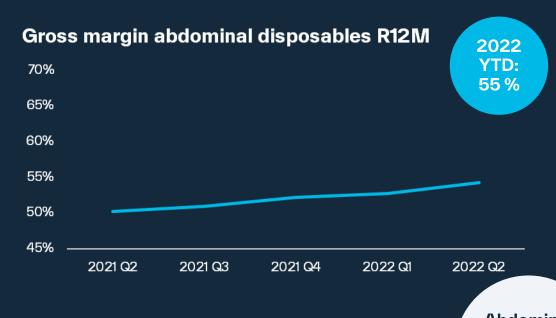




Premium margins driven by differentiation

Recent development





Boosters

Kidney Assist Transport US penetration

Avionord integration

Continued price increases

Reimbursement initiatives

Abdominal target 2027 >70%



2027 profitability targets

EBIT (%)

EBITDA (%)

>30

Capital structure & R&D funding

Expectations 2023-2027

Continued solid and sustainable capital structure

Self-funded commercial expansion

Self-funded R&D pipeline



Key take-aways

5 strategic objectives which strengthen core business and drive expansion of new products & markets

History of profitability and continued high margin business



Operating cash flow will fund R&D pipeline





Machine Perfusion Strategy

Johan Holmström, Chief Commerical Officer



Machine perfusion strategy

Background:

Our technologies and solutions for both the thoracic and abdominal organs help make more organs available for transplantation.

Economic Engine:

Machine perfusion drives our economic engine: Revenue per Machine

Our strategic objectives

Market leader abdominal

Change the paradigm of heart preservation

Preferred partner in the transplant process

Accelerate market leadership lungs

New market expansion



Rapid growth of installed machine base



Installed base







Rapid growth of installed machine base





Installed base

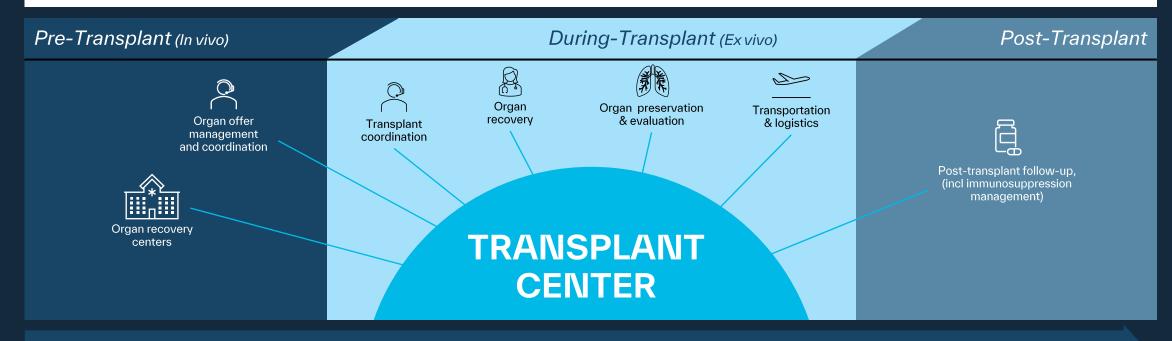






Organ transplantation is a complex and highly specialized resource intense process

Challenge: transplant clinics have constrained resources to recover, preserve, and evaluate organs



Different service offerings are now surfacing in the transplantation market



Key initiatives to increase penetration

Increase revenue per machine

Accelerate installed base of abdominal



- Commercial excellence with focus on clinical expertise and education
- Drive organ hub models for accelerated EVLP growth
- Reimbursement and pricing models customising our value proposition
- ✓ Invest in service models to increase value and customer utilisation

>2 times installed machine base by 2027 >20% penetration of EVLP by 2027



Growth from new product initiatives



Kidney Assist Transport Full launch in US and EU



XVIVO Heart Technology EU/ANZ launch Q1 2024 Pre-Market Approval in the US



Liver Assist Pre-Market Approval in the US



XPS
Launch of next generation

New market expansion

Background:

The fast growing transplant markets in South America and Asia are important growth drivers in XVIVOs journey to becoming a global all organ company

Focus markets:

- ✓ South America focus on Brazil
- ✓ Select Asian Markets incl. China
- ✓ Middle East & Africa

Our strategic objectives

Market leader abdominal

Change the paradigm of heart preservation

Preferred partner in the transplant process

Accelerate market leadership lungs

New market expansion



Accelerated growth from new markets

- Geographic expansion as a key growth driver
- Expansion outside our core markets -North America and Europe
- Controlled expansion and sustainable build in China
- Increase our focus on Brazil, MEA and select Asian markets
- Product registrations of full portfolio –
 Abdominal and Thoracic

15% of global sales from new markets in 2027





Key take-aways

Rapid growth and increased penetration of machine perfusion in core markets

New product initiatives and commercialization of services to drive growth





Beyond product: STAR Teams and Avionord M&P

Christoffer Rosenblad,
Global Business Development and Service Director



Preferred partner in the transplant process

Background:

- XVIVO strives to remove hurdles for transplant teams through the transplant process – driving clinical practice by being a thought leader
- Identified key hurdles capacity & logistics:
 - Process and resources for recovery of organs
 - Resources and scale for machine perfusion

Definition:

 Becoming the preferred partner is about increasing clinician satisfaction by removing hurdles and addressing inefficiencies in the transplant process

Our strategic objectives

Market leader abdominal

Change the paradigm of heart preservation

Preferred partner in the transplant process

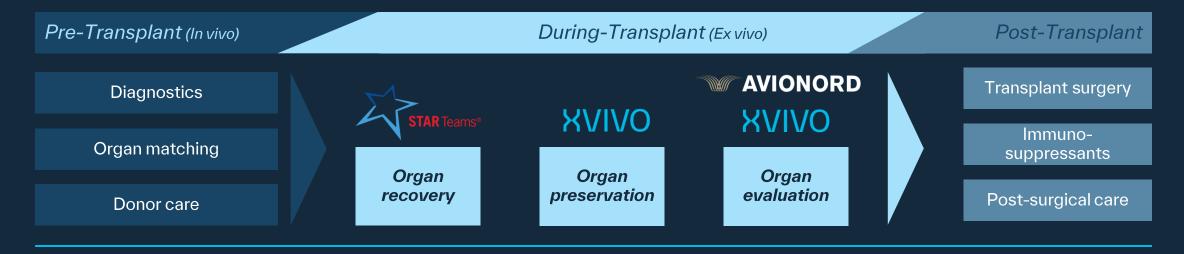
Accelerate market leadership lungs

New market expansion



Acquisition Update

Acquisitions in the transplant process



STAR teams procurement service ensures surgeons are on call ready to recover organs for transplant centres in the USA

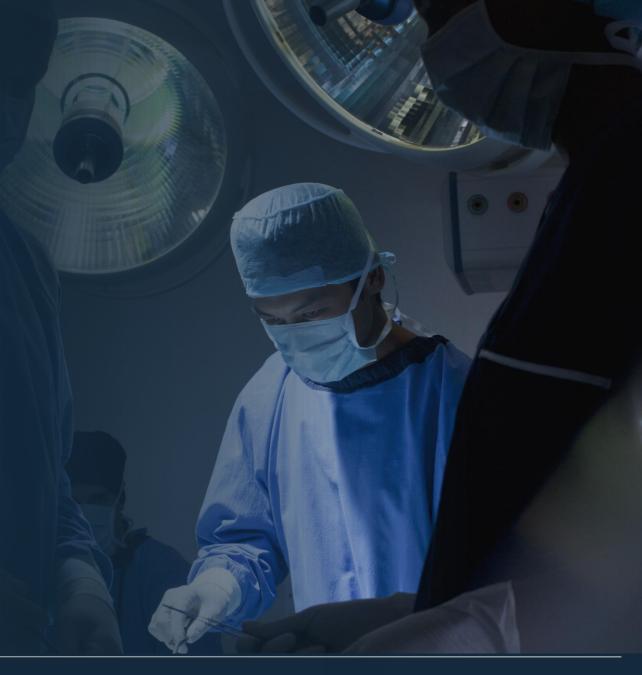
Avionord M&P offer a perfusion service to some of the most prominent abdominal clinics in Italy. Providing critical support, expertise, and experience during machine perfusion.



STAR Teams - Services for organ recovery

At a glance

- U.S. based team of thoracic surgeons, preservationists, and coordinators
- Led by Doctor Hassan Tetteh highly reputable thoracic transplant surgeon
- Subscription based revenue model resulting in more than 400 fly outs in 2021





STAR Teams acquisition

Deal rationale



Enter service segment



High growth business



Extended offer – cross selling synergies

- Acquisition is well aligned with our overall strategic objectives
- ✓ STAR teams adds service dimension to our strong product portfolio making more organs available for transplantation

Strategy support



Market leader abdominal



Change the paradigm of heart preservation



Preferred partner in the transplant process



Accelerate market leadership lungs

New market expansion



Avionord Machines & Perfusion

FOR A NEW ORGAN

- Italian medical device distributor, service and logistics provider
- Revenue model based on price per procedure structure: disposables + services
- High margin business with high customer satisfaction
- Active in 15/22 liver transplant centres in Italy
- 20 25% machine perfusion penetration in Italy for abdominal

Avionord M&P acquisition

Deal rationale



Secure and build Italy



Improve margins and increase revenue per procedure



Option GISTO - transport device for static cold preservation of all organs

Strategy support



Market leader abdominal

Change the paradigm of heart preservation



Preferred partner in the transplant process

Accelerate market leadership lungs

New market expansion



Digital

XPS Live - analysis of lung transplant data

Why:

Increase confidence in the use of marginal lungs through predictive analytics

What:

Advanced analytics of XPS perfusion data to enable evidence-based decision making

How:

Extended partnership with world-leading Cleveland Clinic

"Solid data-driven analysis combined with personal experience is the way forward to accept more marginal lungs. This partnership with XVIVO will benefit us all"

- Dr. Kenneth McCurry, MD at Cleveland Clinic





Key take-aways

Services increase penetration of machine perfusion **AVIONORD**

Services increase revenue and improve margins



Services create customer satisfaction and retention





Regulatory Strategy

Katrin Gisselfält, Global Quality Assurance & Regulatory Affairs Director



When can we expect product launch?

- Is the fastest route to market always the best?
- Important to consider and navigate a dynamic regulatory environment -European MDR*
- Expanding to new markets how and when?



Why a regulatory strategy?



510 (k) / de Novo

- Faster
- Easier
- Might need clinical data to support
- Showing substantially equivalence
- Can be used as predicate

PMA

- Longer and more complex registration
- Clinical data need to support
- Innovative Technology
- Raised bar for competition no predicate



XVIVO

has chosen to pursue a PMA route for the innovative hypothermic liver platform: Liver Assist



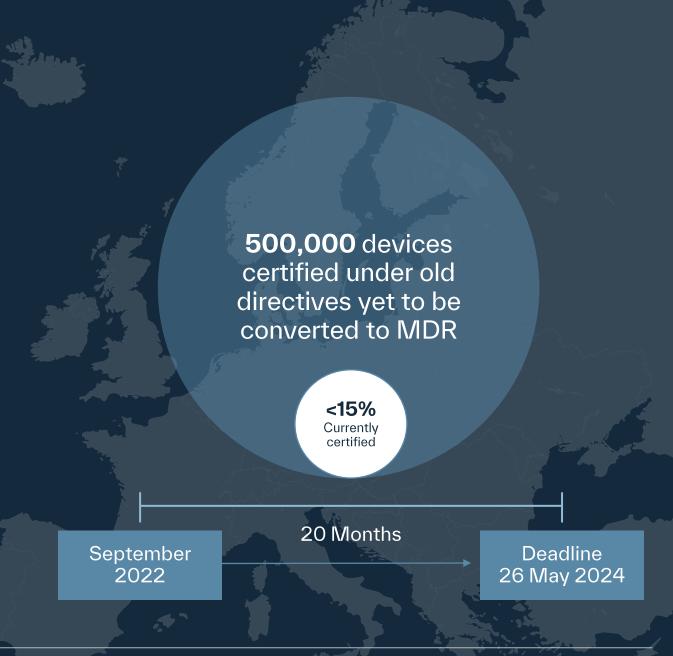


- Longer and more complex registration
- Clinical data need to support
- Innovative Technology
- Raised bar for competition no predicate

European MDR

XVIVO

- ✓ Current product range fully on track
- ✓ Kidney Assist Transport MDR certified in March 2022



New Market Expansion

Background:

The fast growing transplant markets in South America and Asia are important growth drivers in XVIVOs journey to becoming a global all organ company

Focus Markets:

- ✓ South America focus on Brazil
- ✓ Select Asian Markets incl. China
- ✓ Middle East & Africa

Our Strategic Objectives

Market Leader Abdominal

Change the Paradigm of Heart Preservation

Preferred Partner in the Transplant Process

Accelerate Market Leadership Lungs

New Market Expansion



Geographic expansion from a regulatory

perspective

XVIVO



Full portfolio registered (Lungs & Abdominal)



Lung Portfolio (XPS Pending)



Lung Portfolio



- Clinical data from US/EU registrations can (often) be utilized
- CE certificate prerequisite for many registrations



Key take-aways

PMA route secures innovative liver technology







XVIVO Heart technology: The power of oxygenation and the clinical trials

Andreas Wallinder M.D., Ph.D., Chief Medical Officer



Change the Paradigm of Heart Preservation

Background:

XVIVOs heart technology can be more than market leading, it has the potential to completely change the standard of care for heart preservation

Definition:

Changing the Paradigm is defined as establishing cold oxygenated perfusion as the standard of care for heart preservation

Key Activities 2022-2024:

- Trial completion in Europe & ANZ 2023
- USA heart trial started 2023
- First clinical sales of approved product in 2024 (Europe & ANZ)

Our Strategic Objectives

Market leader abdominal

Change the paradigm of heart preservation

Preferred partner in the transplant process

Accelerate market leadership lungs

New market expansion

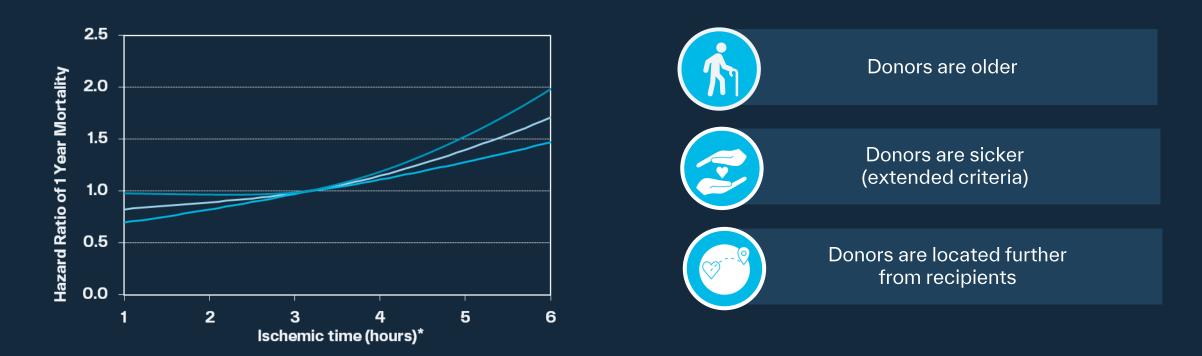


Strong underlying need that will continue to grow

- Heart failure affects ~ 64 million people and prevalence is rising due to changing demographics
- At the final stage, life expectancy is 6-12 months
- Heart transplantation is a lifesaving treatment for advanced heart failure, but is limited to a few



Trends in heart donation drives the need for new preservation technology



The need for longer out-of-body times and use of extended criteria hearts requires better preservation methods



Changing the paradigm in heart preservation with new technology









COLD PERFUSION



TEMPERATURE CONTROLLED



STATIC COLD PRESERVATION



Role of warm heart beating perfusion?

40

30

20

10

- High complexity requiring advanced users
- No temperature safety net
- Up to 20% organ loss during perfusion
- Long-term follow up indicates significantly worse outcome than transport on ice (p = 0.05)





p = 0.05 0	Year 1	Year 2	Year 3	Year 4
CSS	95	90	87	83
Warm Perfusion	82	75	69	67

https://www.fda.gov/media/147298/download



XVIVO Heart Technology

Continuously perfusing the heart with a cold (8 °C) oxygenated proprietary solution







XVIVO's novel heart preservation technology



Increased utilization (Extended criteria donor)



Improved outcomes (fewer complications, improved survival)



Longer preservation time (allows for better logistics, longer travel distance, better matching)



Cost effectiveness





XVIVO Clinical Trial Programs









	EUROPE	AU/NZ	LUND	US
Status	Ongoing	Ongoing	Ongoing	Start 2023
No of centers	15	5	1	up to 15
Population	Standard & EC*	6-8 hours	Standard & EC	EC
No of patients	202	36	68	TBD

Geographical coverage in clinical trials

- well equipped for launch

- The clinical trial sites in Europe alone perform >600 heart transplants annually
- 40% of donor hearts in Europe have an ischemic time of more than 4 hours
- Trial sites express strong interest in post trial use for long transports, extended criteria donor and potentially standard donor hearts





Heart Transplantation in the USA

Jaya Tiwari, Vice President Clinical & Regulatory Affairs USA

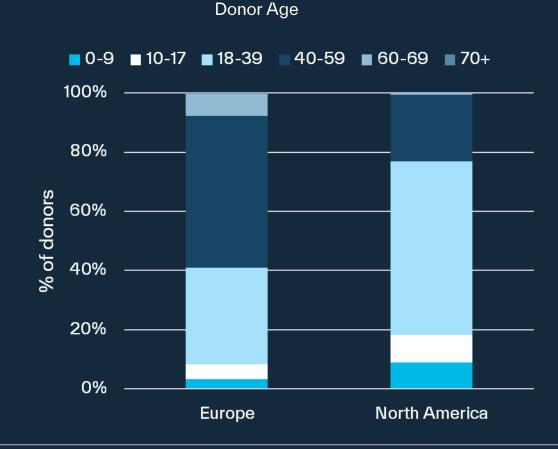


Heart donors: Europe vs. USA

Donor **age** and heart transport time are the key differences between Europe and USA

Despite transplanting more hearts than Europe combined...

the US rarely utilises donor hearts above 40 years of age





Heart donors: Europe vs. USA

Donor age and heart **transport** time are the key differences between Europe and USA

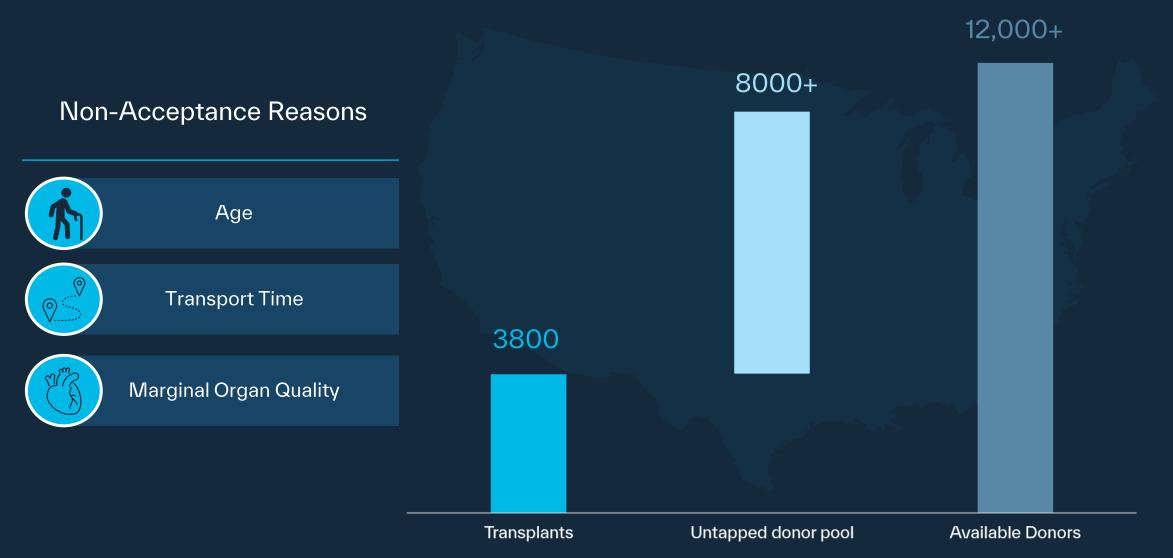
Despite transplanting more hearts than Europe combined...

the US utilises few hearts from donors with an out-of-body time above 4 hours, compared to Europe





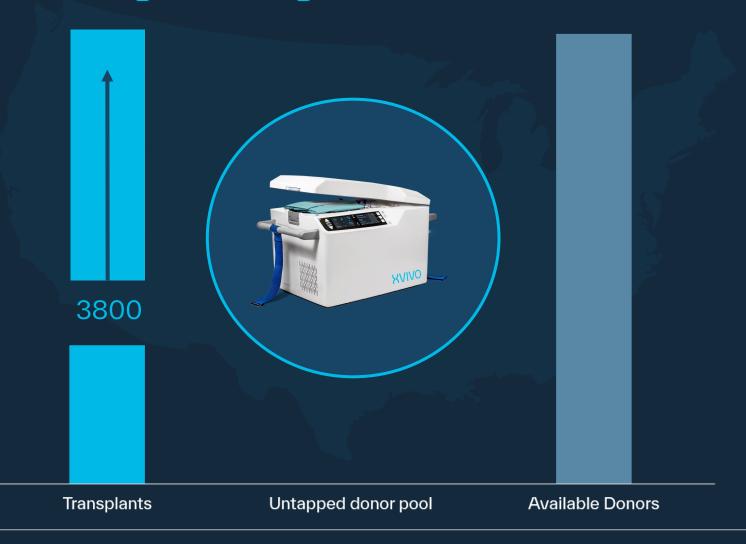
The critical need for increased utilization





The critical need for improved preservation

XVIVO Heart Technology is uniquely suited to address the most common reasons for organ turn-down and allow hospitals to safely utilize organs from older donors and with longer transport times.





US trial "PRESERVE" will broaden device indications

- A Prospective, Multi-center, Single-Arm, Open-Label Study of Hearts Transplanted after Non-Ischemic Heart PRESERVation from Extended Donors
- Inclusion/exclusion criteria addresses critical need
 - Longer transport times
 - Older donors
 - Marginal quality organs
- Trial start 2023



US trial will engage up to 15 trial centers

- High interest in XVIVO heart technology
- Collaborations underway with high volume centres, including 4 out of the top 8 centres in the USA:
 - Vanderbilt University
 - Duke University
 - University of California San Diego
 - Advent Health (Orlando, FL)





XVIVO ...

- ... is in 90% of thoracic transplant centers
- ... clinical trial program creates foundation for regulatory approvals covering 80% of global market
- ... has 35 world leading heart transplant centers involved in clinical trial program
- ... including all heart transplant centers in Australia and New Zealand





Capital markets day summary and Q&A session

XVIVO 2023 - 2027 Strategy commitments

>30% **EBITDA**

>20% EBIT

>70% Gross Margin on Abdominal Portfolio





2x Installed machine base









20% Penetration of EVLP



15% of global sales from new markets



