

CryoLife, Inc.

Pat Mackin
Chairman, President and Chief Executive Officer



Forward Looking Statement

Statements made in this presentation that look forward in time or that express management's beliefs, expectations, or hopes are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements reflect the views of management at the time such statements are made. These statements include those regarding the ability of CryoLife's product portfolio to drive profitable growth; the ability of the On-X acquisition to accelerate growth and expand gross margins; the expected growth of the market for our aortic heart valves due to demographics and device adoption; our expectation that there will be additional upside for our product sales in France as we leverage direct sales of our full product portfolio in France; our ability to expand our sales of BioGlue in Japan as a result of receiving in 2015 an expanded indication for BioGlue for use in thoracic aneurysm, Bentall & LVAD procedures; our expectations regarding our ability to execute on our clinical trial for BioGlue in China and the timeline for that clinical trial; our expectations regarding the ability of the On-X transaction to enhance our growth profile, increase opportunities for cross selling, drive margin expansion, provide CryoLife with a new addressable market opportunity of \$220MM, generate highly attractive margins, facilitate increased adoption of On-X portfolio penetration, enhance and leverage our existing direct sales organization, and strengthen our strategic focus on aortic and mitral valve repair and replacement surgery; the ability of the INR indication for the On-X valve of 1.5 to 2.0, to be a significant differentiator, distinct competitive advantage and catalyst for us to achieve market leadership in the mechanical heart valve market; our belief that compelling clinical data regarding the On-X valve supports future growth; the anticipated benefits for our business development program; and our beliefs regarding our expectations for financial performance in 2017. These forward-looking statements are subject to a number of risks, uncertainties, estimates, and assumptions that may cause actual results to differ materially from current expectations. These risks and uncertainties include the risk factors detailed in our Securities and Exchange Commission filings, including our Form 10-K for year ended December 31, 2016. CryoLife does not undertake to update its forward-looking statements.



CryoLife Mission Statement

- CryoLife helps surgeons restore lives by providing the highest quality tissue services and medical devices.
- ➤ We strive to develop our people by promoting a culture of quality, transparency, and integrity.
- ➤ By doing so, we deliver value to our shareholders, our employees, and our community.







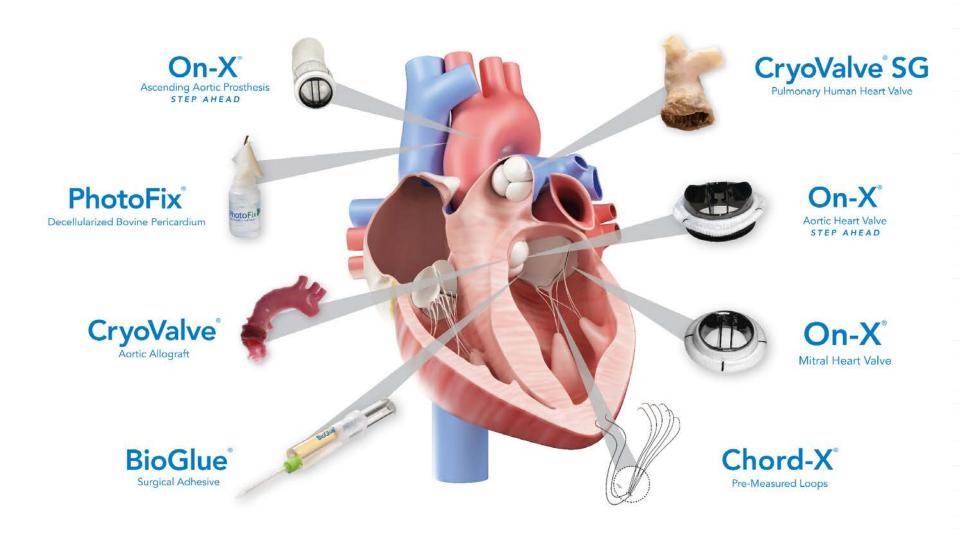


CryoLife Vision

Become a leader in providing unique and differentiated technologies and solutions to patients with structural heart disease that will improve clinical outcomes as well as reduce the overall cost to the healthcare system



Cardiovascular Technology Business





Allograft Tissues and Largest Product Lines

Cardiac Allografts







37% of Revenue



20% of Revenue



35% of Revenue



Investment Rationale

Established Product Portfolio Driving Profitable Growth

- On-X Acquisition Accelerates Growth and Margin Expansion
- Highly Experienced Direct Sales Organization
- Proven Leadership
- Active Business Development Program



Tissue and Product Revenues

Mix Shift from Tissues to Higher Margin Devices (Products)

2010 – 2015 revenue growth of 4.7% (CAGR) and significant M&A in 2016



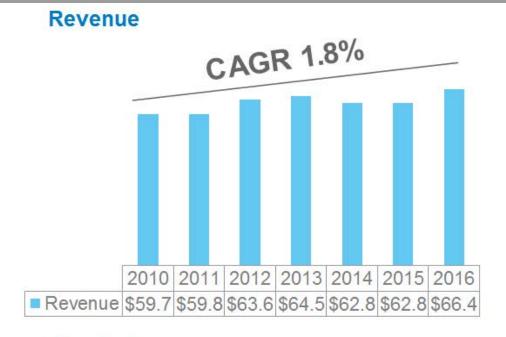
| CAGR | Growth | | | | |
|----------------|---------|--|--|--|--|
| <u>'10-'15</u> | FY 2016 | | | | |
| 1.0% | 5.7% | | | | |
| | | | | | |
| | | | | | |



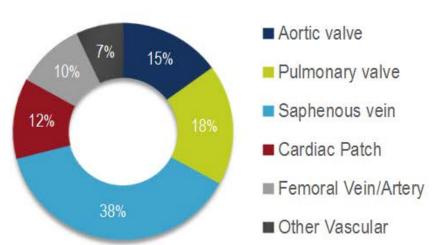


CryoLife Products- Cryopreserved Tissue

Cryopreserved Tissue: Five-Year Tissue Revenue



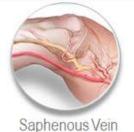
Business Mix



Products









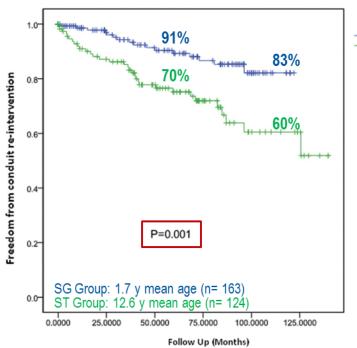
Pulmonary Valve Homografts

CryoValve® SG Pulmonary Valves



SynerGraft® Decellularized Technology

- + Eight published papers with >2,500 patient years follow-up
- + 10 year actuarial freedom from explant = 93%¹
- + 10 year actuarial freedom from reintervention = 83%2 (see plot)
- + Over 30,000 pulmonary valves implanted since 1984³
- + Over 6,300 SG pulmonary valves implanted since 2000³

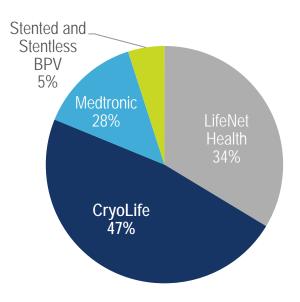




US Pulmonary Valve Replacement Market:

2,300 procedures

Market Size = \$24M 2% CAGR



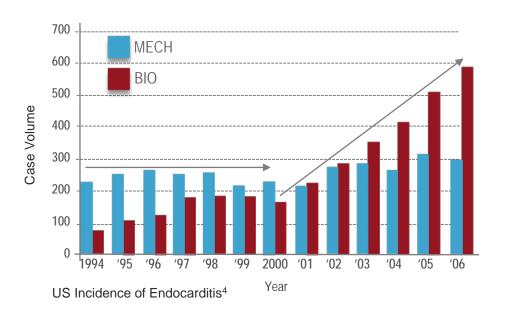


Aortic Valve Homografts

CryoValve® Aortic Heart Valves

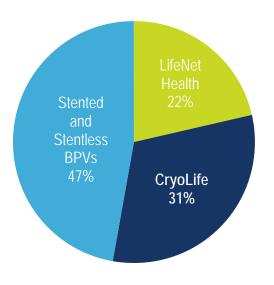
Society of Thoracic Surgeons Recommendation¹

- Class I Homograft replacement of the aortic root should be considered for patients with extensive active endocarditic destruction of the aortic annulus. (Level of evidence B)
- Class Ila Homograft replacement of the aortic valve can be considered for patients with endocarditis without annular destruction, especially when the potential for reinfection is elevated. (Level of evidence B)
- 95% freedom from recurrent endocarditis at 10 years^{2,3}
- Growing market due to demographics and device adoption (TAVR)



US Aortic Valve Replacement due to Endocarditis Market: 5 3,200 procedures

Market Size = \$22.5M 9% CAGR



Estimated number of endocarditis cases based on figures from "Infective Endocarditis in the U.S., 1998-2009: A Nationwide Study" by Bor DH, et al. PLoS ONE, published 3/20/2013 and Cleveland Clinic estimates that ~30% of diagnosed infective endocarditis require surgery, of those, the majority are aortic (vs mitral or pulmonary) valve."



Svensson LG, et al. Ann Thorac Surg 2013; 95:1491-1505.

Doty JR, et al. J Thorac Surg 1998; 115:371-380

^{3.} Sabik JF, et al. Ann Thorac Surg 2002; 74:650-659.

Byrne JG, et al. Ann Thorac Surg 2011;91:2012-2019.

Saphenous Vein Homografts

CryoVein® Saphenous Vein

- High limb salvage rates: 70% at 4 years²
- Excellent resistance to infection⁶
- Provides natural suturability and compliance³

Clinical Effectiveness

| Reported Limb Salvage Rates for CryoVein Used in Peripheral Bypass | | | | | | | | |
|--|-----|--------|------|------|------|------|--|--|
| Author | n | % redo | 1 yr | 2 yr | 3 yr | 4 yr | | |
| Randon, et al ¹ | 92 | 62% | 85% | 77% | 70% | NR | | |
| CryoLife Multicenter ² | 381 | 59% | 73% | 72% | 70% | 70% | | |
| Martin, et al ³ | 82 | 94% | 84% | 81% | NR | 62% | | |
| Farber, et al ⁴ | 177 | 50% | 80% | 71% | NR | NR | | |
| Buckley, et al ⁵ | 24 | 27% | 80% | 80% | NR | NR | | |

Note: Market procedures, share, size, and CAGR are approximate annual U.S. numbers based on actual CryoLife data and market reports, including iData and IMS.

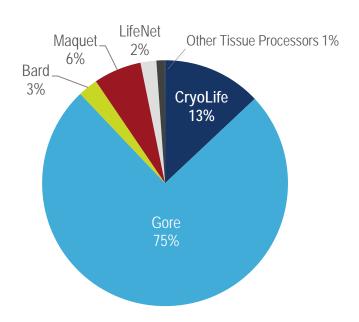
- Randon C, et al. J Vasc Surg 2010;51:869-77;
- CryoLife data on file (ML0041);
- . Martin R, et al. Ann Surg 1994;219;6:664-72;
- Farber A, et al. J Vasc Surg 2003;38:15-21;
- Buckley C, et al. J Vasc Surg 2000;32:731-8;
- Fujitani, et al. J Vasc Surg 1992;15-519-25.



US Below the Knee Bypass Market:

22,000 procedures (BTK)

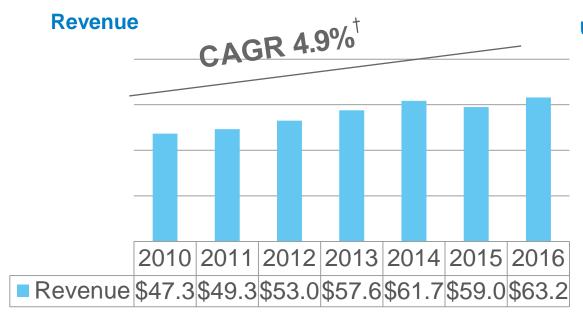
Market Size = \$182.5M 1.4% CAGR





CryoLife Products - BioGlue Sealant

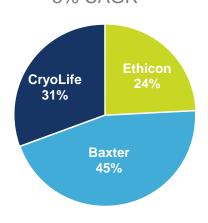
BioGlue Surgical Sealant



US Cardiovascular Sealant Market:

145,000 procedures

Market Size = \$112.2M 3% CAGR



BioGlue Indications











Global Expansion

Direct in France - 2015

- Nominal revenue from France January-September 2015 as distributor sold off inventory
- June 22nd announced agreement with French distributor to take business direct on October 1st, 2015
- 2014 revenue of BioGlue and PerClot was \$3 million
- Additional upside as we leverage direct sales of the full product portfolio

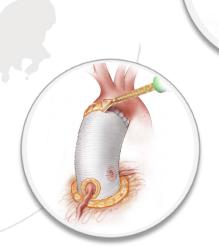
Direct in Canada, Belgium, Netherlands - 2017



Global Expansion- Japan BioGlue Indication

Expanded Indication for BioGlue in Japan

- Current indication only for aortic dissection (5,500 procedures)
- Expanded approval for thoracic aneurysm, Bentall & LVAD (5,500 procedures)
- Doubles existing market from \$5 million to \$10 million
- PMDA approval July 2015
- MHLW reimbursement September 2015





Global Expansion- BioGlue China

Clinical Trial and Regulatory Approval for BioGlue in China

- Significant market opportunity: >40,000 aortic surgeries
- Estimated Timeline
 - Clinical trial design finalized in 2016
 - Standards testing completed, clinical trial approval by CFDA, and Ethics Committee submissions/approvals in 2016
 - Enroll trial and collect follow-up in 2017 (3 month follow-up)
 - Complete final report and CFDA submission in 2018
 - 15 months for CFDA approval in 2019

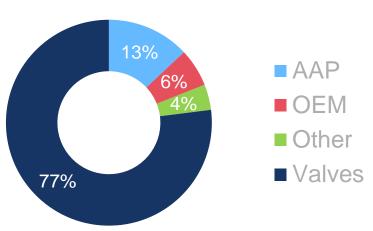


CryoLife Products - On-X Valves





Business Mix



Products



On-X Aortic Valve



On-X Mitral Valve



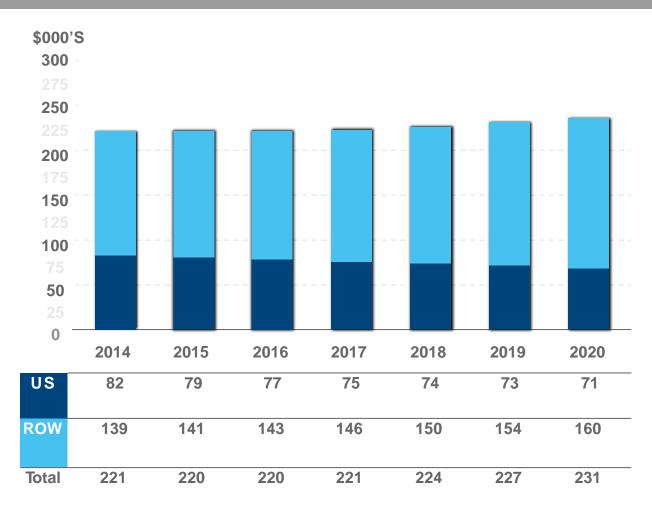
Prosthesis (AAP)



OEM

Worldwide Mechanical Valve Market





Source: Millennium Research Group

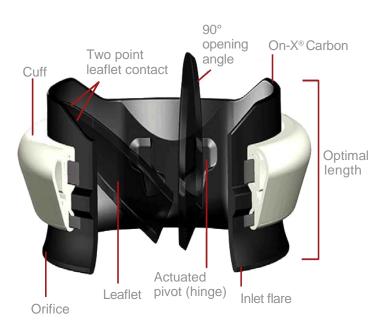


Best-in-Class Mechanical Valve Technology



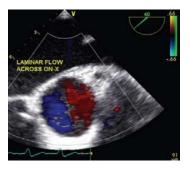
Aortic Valve Flow Comparison

On-X Valve



On-X Valve Flow





Traditional Mechanical Valve Flow





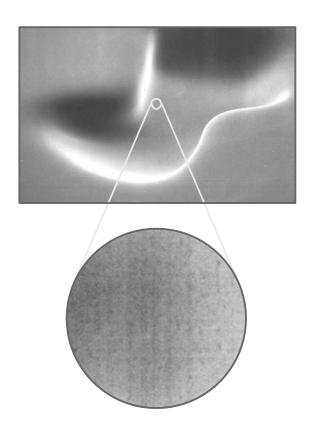


Best-in-Class Mechanical Valve Technology

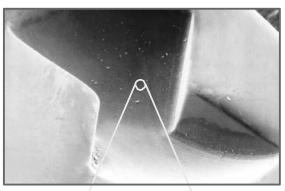


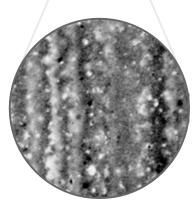
Microstructure Comparison

On-X Valve
Silicon-free On-X® carbon



Market-Leading Competitor





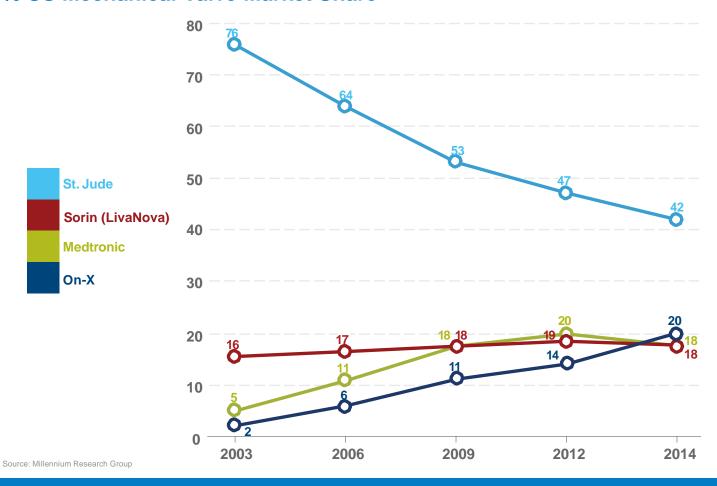


Steady Growth With Modest Sales Support



The Power of On-X Technology

% US Mechanical Valve Market Share





Significant Recent Developments



PROACT trial results and recent FDA approval of 1.5 to 2.0 INR are catalysts for On-X valve to achieve market leadership



425
Aortic Valve
Replacement
(AVR)
Patients Enrolled

50 Patients Excluded

Patients 2.0-3.0 INR 81 mg Aspirin/day 185 High Risk

AVR Patients

1.5-2.0 INR

81 mg Aspirin/day

190 Control

AVR Patients

2.0-3.0 INR

81 mg Aspirin/day

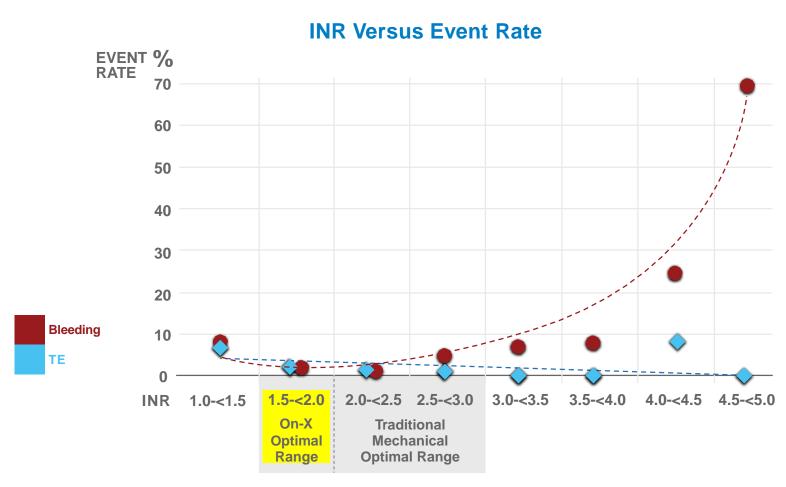
Source: PMA P000037 supplement 30, approval date April 01, 2015



Clinical Data Supports Future Growth



Data shows an opportunity to switch future patients from tissue



Source: Puskas et al., J Thorac Cardiovasc Surg 2014;147:1202-11



Clinical Data Supports Future Growth



On-X has the only FDA approved mechanical aortic valve requiring an INR of just 1.5 to 2.0, substantially reducing a patient's bleeding risk — a significant differentiator and distinct competitive advantage

CONTROL

| 65 | % |
|--------|-------|
| Redu | ction |
| in ble | eding |

| | | .6) (2.0-3.0) | _ | 6.2) (1.5-2.0) | RATE RATIO | 95% CI | P-VALUE |
|---|----|------------------|----|------------------|----------------|------------|---------|
| EVENT | N | RATE (%/ptyr) | N | RATE (%/ptyr) | (test/control) | | |
| Major Bleed | 34 | 3.87 | 12 | 1.57 | 0.40 | 0.21-0.78 | 0.007 |
| Cerebral Bleed | 4 | 0.46 | 1 | 0.13 | 0.29 | 0.03-2.56 | 0.264 |
| Minor Bleed | 35 | 3.98 | 9 | 1.17 | 0.29 | 0.14-0.61 | 0.001 |
| Total Bleed | 69 | 7.85 | 21 | 2.74 | 0.35 | 0.21-1.57 | <0.001 |
| Ischemic Stroke | 7 | 0.80 | 6 | 0.78 | 0.98 | 0.33-2.92 | 0.975 |
| TIA | 7 | 0.80 | 11 | 1.44 | 1.80 | 0.70-4.65 | 0.223 |
| Neurologic Event | 14 | 1.59 | 17 | 2.22 | 1.39 | 0.69-2.82 | 0.359 |
| Peripheral TE | 1 | 0.11 | 4 | 0.52 | 4.59 | 0.51-41.04 | 0.173 |
| Thrombosis | 2 | 0.23 | 2 | 0.26 | 1.15 | 0.16-8.14 | 0.891 |
| Major Bleed, TE, Thrombosis (AATS Guideline) | 51 | 5.80 | 35 | 4.57 | 0.79 | 0.51-1.21 | 0.275 |
| Primary Endpoint | 86 | 9.79 | 44 | 5.74 | 0.59 | 0.41-0.84 | 0.004 |
| Sudden Death | 3 | 0.34 | 3 | 0.39 | 1.15 | 0.23-5.68 | 0.867 |
| Valve-related Death | 3 | 0.34 | 2 | 0.26 | 0.76 | 0.13-4.57 | 0.769 |
| Total Mortality | 16 | 1.82 | 12 | 1.57 | 0.86 | 0.41-1.82 | 0.693 |

TEST

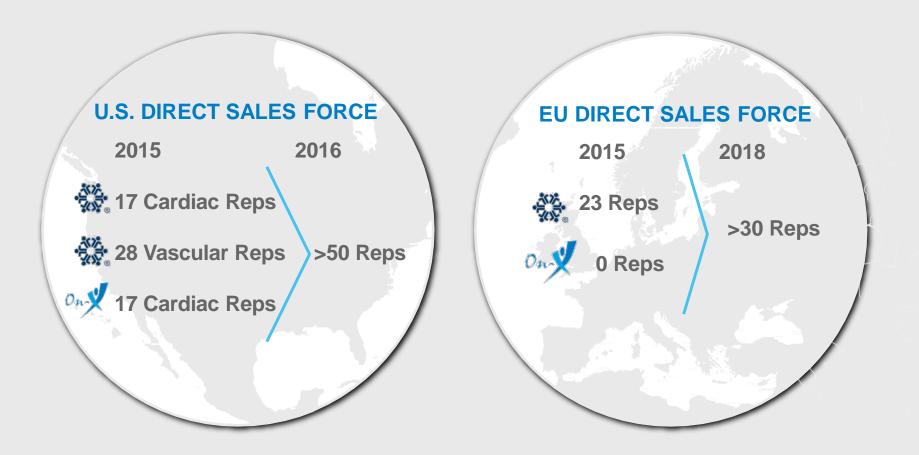
Source: PMA P000037 supplement 30, approval date April 01, 2015



Experienced Global Direct Sales



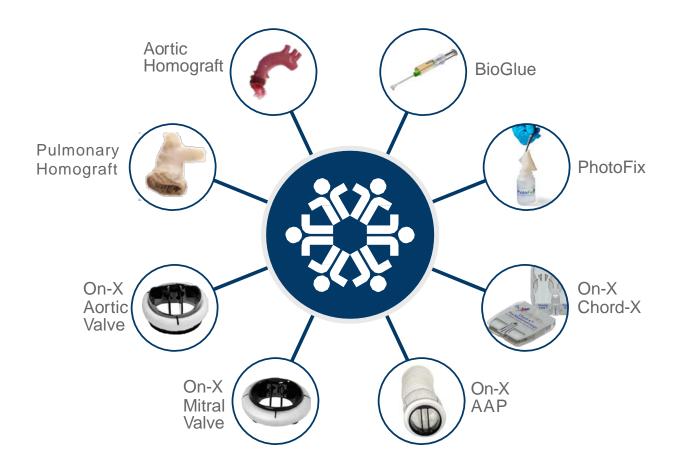
Combination will create critical mass in global distribution channels with significant opportunities for cross-selling





Strategic Focus on Aortic Surgery and Mitral Valve Surgery

Combination of CryoLife and On-X creates a highly differentiated product portfolio with a strategic focus on aortic and mitral valve surgery





Recent Additions to Leadership Team



PAT MACKIN, Chairman, President & Chief Executive Officer

20 + Years Experience

Previous Companies: Medtronic, Genzyme, Deknatel/Snowden-Pencer

Education: B.S. United States Military Academy at West Point and M.B.A. Kellogg Graduate School of

Management at Northwestern University



JEAN HOLLOWAY, Senior Vice President, General Counsel & Corporate Secretary

30 + Years Experience

Previous Companies: C.R Bard, Medtronic, Boston Scientific, Guidant Corporation

Education: J.D./M.B.A. (cum laude) from the University of Chicago, and two undergraduate degrees from

Yale University



JOHN DAVIS, Senior Vice President, Global Sales & Marketing

25 + Years Experience

Previous Companies: CorMatrix Cardiovascular, St. Jude, Medtronic **Education:** Bachelor of Arts, English from Western Carolina University



Recent Additions to Leadership Team



BILL MATTHEWS, Senior Vice President, Operations, Quality and Regulatory

30 +Years Experience

Previous Companies: BioDevice Solutions, Fresenius Medical Care, Cardinal Health's Viasys

Healthcare, Beiersdorf AG

Education: Bachelor of Science in Chemistry from St. Peter's University and Business Administration

programs from Rutgers University and Fairleigh Dickson University



JIM MCDERMID, Chief Human Resources Officer

30 Years Experience

Previous Companies: Medtronic, Rockwell International, Hudson Bay Company, Cooper Industries

and International Paper

Education: M.D. in Human Resources Management, McMaster University and a Bachelor's from

University of Toronto



Active Business Development Program

- ✓ Improve clinical outcomes
- ✓ Reduce healthcare costs
- ✓ Physician preference products
- ✓ Higher growth rate than CryoLife
- ✓ Higher margin than CryoLife
- ✓ Competitive advantage in market
- ✓ Synergistic to CryoLife



Investment Rationale

Established Product Portfolio Driving Profitable Growth

On-X Acquisition Accelerates Growth and Margin Expansion

Highly Experienced Direct Sales Organization

Proven Leadership

Active Business Development Program





www.cryolife.com

