

MicroPort CardioFlow Medtech Corporation

2022 Interim Results Presentation

September 2022

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Company Highlights



Delivering Rapid Growth Amidst COVID Headwinds



● MicroPort 心通医疗

Strong Topline Growth with Steadily Improving Margin



Interim Results Highlights

- Strong revenue growth: +45% to, RMB124.8 mn mainly driven by sales volume growth
- ✓ Overseas revenue: overseas market recorded revenue of RMB1.8 mn
- Continuous sharp GPM expansion: +8.6 ppts to 63.7%, thanks to price cut on raw materials and improved manufacturing efficiency
- ✓ Sufficient cash balance: cash and cash equivalent balance of RMB2,139.1mn as of June end 2022

Business Review



Market-beating Growth Propelled by Product Excellence





1H22 Commercialization Progress

- ◆ 1,335 procedures performed with our TAVI family products, fast penetrating the domestic market
- **Record high weekly and monthly implantation** in Jun 2022 amid recurring COVID breakouts
- ◆ 22 overseas commercial implantations of VitaFlow Liberty[™], covering **20+** hospitals outside China

What Powered our Growth

- VitaFlow[®] & VitaFlow Liberty[™] covered **390** domestic hospitals and 26 hospitals in Argentina as of Aug end (newly penetrated 80+ domestic and 20 overseas hospitals), with leading shares in 230+ domestic hospitals and proven efficacy on AS/AR cases
- **Number of sales representatives** increased to **163** with strong medical background, continued trainings and dedicated regional focus for professional market education
- In-depth cooperation with MicroPort[®] Group on patient referral + **promotion** services forming a *multi-layer* market and *penetration program* with our internal sales team

Targeted Total Solutions Promotion for Patients and Physicians

Academic Conference Participation

- Attended 43 domestic academic conferences including OCC and China Valve, hosted 154 seminars and initiated 23 training activities with 1,000+ physician attendees covering product differentiation, TAVI for AR patients, brand promotions, etc.
- Attended renowned international cardiovascular conferences including EuroPCR, CSI Frankfruct, SBHCI 2022 and SOLACI-SOCIME 2022, presented the VitaFlow[®] 5-year follow-up study result and provided live procedure demonstration and case sharing of VitaFlow Liberty TM

Contest to Encourage Talented Physicians



并阶·TAVR条师堂

 VitaFlow[®] Classics became the most influential TAVI competition that engaged 171 hospitals, 56 contestants, 58 experienced physician-mentors and 50,000 views in 1H22, increasing awareness of TAVI procedures, and the VitaFlow family

Professional Physician Support Program

Dedicated in-house total solution promotion team of 163 representatives with professional medical background working with MicroPort[®] Group teams to support physicians in using our TAVI products and operating independently

Patient Needs-centric Approach

- Enhanced discovery and referral schemes, reaching more patients especially in lowertier cities
- Providing a full-process health management program that help optimize health outcomes and reduce patient anxiety

Peri-Operative Help
annel Referral
Affordability Solution



Leveraging the Mature Channels and Brand Influence of MicroPort[®] in Overseas Expansion



VitaFlow Liberty[™]: approved in 2021 Alwide[®] Plus: approved in 2022

- Presented VitaFlow[®] 5-year follow-up study results and exhibited the sample of VitaFlow Liberty[™] on EuroPCR
- ◆ Reported VitaFlow Liberty[™] cases and live broadcasted China/Argentina procedures on CSI Frankfruct, SBHCI 2022 and SOLACI-SOCIME 2022

Strengthened Lean Manufacturing and Improved Cost Structure

On-time production and delivery against sporadic COVID breakouts ensuring the smooth running of business

Launch of **new production site** providing an annual production capacity of **25,000** units Lean manufacturing deployment including Flow Meeting, Gemba Walk, Suggestion System for operational excellence in quality, people, customer and cost

Increased proportion of locally sourced raw materials providing improved margin profile and supply chain resilience



Product Pipeline Update



Innovative and High-quality Total Solutions for Structural Heart Diseases





Our TAVI Family: Positive Clinical Trial Results and KOL Endorsements

VitaFlow[®]

Valve Transcatheter Aortic Valve Implantation System

Relatively lower all-cause mortality rate

1-year follow-up period		VitaFlow®	Peer I	Peer II
0 moderate or severe PVL	30-day	0.9%	5%	3.3%
2-year follow-up period	1-year	2.7%	5.9%	14.2%
0 major (disabling) stroke	2-year	4.5%	8.9%	22.2%
5-year follow-up period	3-year	10.9%	12.9%	32.9%
	4-year	12.7%	14.9%	N/A
81.8% patient survival rate	5-year	18.2%	34.1%	55.3%

The **unique design** of VitaFlow[®] not only reduces the impact on patients' ascending aorta and coronary artery, but also minimizes paravalvular leakage. More importantly, the motorized handle and retrievable delivery system design in VitaFlow Liberty[™] ensures the **ease of use** during procedures.

The 5-year clinical results fully demonstrates the safety and efficacy of VitaFlow[®] in patients with severe aortic stenosis.

- Prof. Zhou Daxin

VitaFlow Liberty[™]

Valve Transcatheter Aortic Valve Implantation System Significantly reduced intraoperative valve-in-valve incidence

VitaFlow Liberty [™]	VitaFlow [®]
4.3% (7/163)	8.2% (9/110)

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100% retrieval success

30-day follow-up period major (disabling) stroke

Note: Please refer to Appendix 2 for full clinical data comparison.



- Prof. Ge Junbo

Inhouse Developed TAVI Pipeline Products with Innovative Upgrades

Category	Product	Features	Progress
	VitaFlow [®] III Self-Expanding	 Reduced profile for improved vascular complications Catheter articulation for improved delivery and valve positioning 	 Design spoken highly of by KOLs Chronic animal studies in preparation Approval expected in 2024
TAVI	VitaFlow [®] Novo Generation	 Innovative deployment mechanism for accurate positioning Fully retrievable with steerable catheter enabling better coaxial property Dry tissue 	 Ongoing bench test, 27 size passed 200M AWT testing Chronic animal study generated positive anti-calcification results
	VitaFlow [®] Balloon Expandable	 Large cells consistent with VitaFlow[®] family reducing coronary occlusion risk Dry tissue 	 Bench test ongoing Acute animal study in progress



Complete MR Toolbox Covering All Mainstream Viable TVT Options

Category	Product	Features	Progress
	TMVr product (In-house development)	 Differentiated deployment for ease of use Unique lock mechanism for stable leaflet capture Low profile 	Design fixing
TMVr*	AMEND (Partnership with Valcare) AMEN [™]	 Innovative ring design with unique anchoring capabilities Maintain original mitral valve's structural integrity for long-term performance improvement Compatible with both transeptal or transapical approaches 	 Early Feasibility Study 10+ transseptal cases demonstrating unique features and enabling annular resizing and MR reduction 100% stand-alone technical success Surgical-like results: MR reduction to <2+
	TMVR product (In-house development)	 Low profile of stent design reducing LVOTO risks Dry tissue for better biocompatibility and anti-calcification properties Compatible with both transeptal or transapical approaches 	 Completed FIM with immediate MR relief and no PVL or LVOTO and positive 30-day follow-up result World's first dry-tissue TMVR system with clinical application
TMVR**	AltaValve (Partnership with 4C)	 Supra-annular fit and atrial-only fixation design overcoming anchoring and fixation difficulties The only known TMVR device that offers full implant retrievability even after its complete deployment and prior to its detachment from the TS Delivery System. No active LV engagement minimizing LVOTO risk Suitable for the vast majority of MR patients 	◆ Early Feasibility Study
	HELIOS (Partnership with Valcare)	 Designed to securely attach to the AMEND ring, representing latest development in mitral valve care short frame and low-crimp profile, ideal for transseptal delivery Ring + valve fixation eliminating the risk of migration and prevents LVOT obstruction 	Animal studies

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Designing and Proving Disruptive TTV and Surgical Valve Products

Category	Product	Features	Progress
TT\/~*	Edge to Edge (In-house development)	 Differentiated deployment for ease of use Unique lock mechanism for stable leaflet capture Low profile 	Design stage
TTVr*	TRIVID (Partnership with Valcare)	 Unique anchoring capabilities Ease-of-use design Mainstream of surgical mitral repair 	 Animal studies
TTVR*	TTVR product (Partnership with 4C)	 Supra-annular fit and atrial-only fixation 	 Design stage
Surgical	Mitral Valve	 Outstanding durability Unique design for better alignment with native mitral annular Low profile to reduce risk of LVOTO Dry tissue 	 Design fixing
	Aortic Valve	 Outstanding durability Expandable design for future TAVI Dry tissue 	 Design stage



A Comprehensive Portfolio of Self-developed TAVI Procedural Accessories

Category	Product	Features	Progress
- And	Alwide [®] balloon catheter III	 More Stable position during inflation 	Submitted for NMPA Approval
		 High burst pressure suits for severe calcification conditions 	
Procedural accessories	Expandable sheath	 Reducing access complications 	✦ Design stage
	VitaGuardian [™] Embolic Protection Device	 Ease of Use design Whole-process embolic protection during structural heart procedures 	 Preparing for FIM Submitted application for NMPA Green Path



Financial Review



Rapid Revenue Growth Coupled by Increase in Gross Profit



- Our revenue increased by 45% in 1H22 mainly from the increase on sales volume
- Overseas market recorded revenue of RMB1.8 mn
- ◆ Increasing revenue contribution from our overseas sales and VitaFlow Liberty[™] product
- We see further improvements in GPM in 1H22 by 8.6 ppts thanks to strengthened bargaining power, domestic sourcing and improved manufacturing efficiency.



Continued Investment in R&D, Commercialization and Production Capacity

We focused on strengthening our R&D pipelines, keeping our commercialization competitiveness and expanding our production capacity for future growth, with increased operational expenses increased on track.



Appendix



Appendix 1: Overview of Product Pipeline

		Product		Pre-clinical	Clinical trial	Registration
		VitaFlow®			Succes	Launched sfully registered in Argentina and Thailand
	VitaFlow® System Alwide® balloon catheter*					Launched
		Aiwide, palloou carneter.			Succes	sfully registered in Argentina and Thailand
						Launched
Aortic	VitaElow Liberty TM System	VitaFlow Liberty [™] (<i>Retrievable</i>)	*	CF Marking	Success registration and registration in e	fully registered in Argentina and Colombia merging markets in progress
valve products						Launchee
		Angelguide® tip-preshaped super stiff guidewire*			Success	fully registered in Argentina and Colombia
	VitaFlow [®] III (Steerable delivery	system)		Design fixing		
	VitaFlow [®] Novo Generation (Br	and new PAV design and new anti-calcification technology)		Design stage		
	VitaFlow [®] Balloon Expandable	(New anti-calcification technology)		Design stage		
	Self-developed replacement pro	oduct	*	FIM		
N 411	AltaValve – Innovative replacen (Partnership with 4C Medical – d	n ent product commercialization rights in China)	*	Preparing for FIM Early feas	ibility studies	
Mitral valve products	Helios – Replacement product (Partnership with Valcare – commercialization rights in China)		Animal studies		
	Self-developed edge to edge –	repair product		Design fixing		
	Amend – Repair product (Partn	ership with Valcare – commercialization rights in China)	*	Preparing for FIM Early feasibilit	v studies	
	Self-developed edge to edge -	repair product		Design stage	,	
Tricuspid valve	Replacement product (Partners	ship with 4C)		Design stage		
products	Trivid – Repair product (Partner	ship with Valcare – commercialization rights in China)		Animal studies		
Surgical valve	Aortic valve replacement produ			Design stage		
product	Mitral valve replacement produ	lct	*	Design fixing		
	Alwide [®] Plus balloon catheter					Launche
	7				Successfully registered in Argo	entina, CE Marking registration in progres
Procedural	Alwide [™] balloon catheter III		*			Submitted for NMPA approval
accessories	Alpass [™] catheter sheath II			Designation		Registration in progress
	Expandable sheath	ian Davies		Design stage Design stage Submitted application for NMPA Green I	Dath	
	VitaGuardian [™] Embolic Protect			Submitted application for NIMPA Green		

China status Global status Among our product candidates, these devices are exempted from clinical trial requirements in accordance with the Catalogue of Medical Device Exempted from Clinical Trials promulgated by the NMPA, as amended

We submitted application of this device for Special Examination and Approval Procedures for Innovative Medical Products which provides a fast-tracked regulatory approval process

★ Major Progress in 1H22

* These procedural accessories are registered and commercialized offered as part of VitaFlow® or VitaFlow LibertyTM system and are not registered as standalone product in China

Appendix 2: TAVI Products - Clinical Data Comparison

Company	Product	30-days mortality rate ¹	30-days major (disabling) stroke ¹	1-year mortality rate ¹	1-year major (disabling) stroke ¹	1-year moderate to severe PVL rate	1-year major vascular	2-year mortality rate ¹	2-year major (disabling) stroke ¹	3-year mortality rate ¹	3-year major (disabling) stroke ¹	4-year mortality rate	4-year major (disabling) stroke	5-year mortality rate	5-year major (disabling) stroke
● MicroPort 心通医疗	VitaFlow [®]	0.9%	0.0%	2.7%	0.0%	0.0%	2.7%	4.5%	0.0%	10.9%	1.8%	12.7%	2.0%	18.2%	2.1%
▶ 💟 心 通 医 疗	VitaFlow Liberty [™]	5.0%	0.0%*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	VenusA- Valve	5.0%	1.0%	6.0%	1.0%	4.2%	6.1%	11.6%	N/A	17.4%	N/A	26.7%	N/A	34.1%	N/A
	VenusA-Plus	4.8%	1.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JC Medical	J-Valve	4.7%	0.0%	5.6%	2.0%	1.1%	N/A	9.1%	2.0%	10.8%	N/A	N/A	N/A	N/A	N/A
Medtronic	CoreValve (U.S Pivotal)	3.3%	3.9%	14.2%	5.8%	6.1%	6.2%	22.2%	6.8%	32.9%	8.1%	N/A	N/A	55.3%	12.3%
E	SAPIEN 3 (U.S. Trial)	2.2%	0.9%*	14.4%	2.4%*	2.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Edwards	SAPIEN 3 (China Trial)	0.0%	2.0%*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PEIJIA	TaurusOne	1.7%	N/A	6.7%	N/A	1.0%	4.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
注意医疗 FEINA VEINCA	TaurusElite	2.5%	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: ¹ The data is from pivotal clinical trial of corresponding products and not head-to-head clinical results. VitaFlow (N=110), VitaFlow LibertyTM (N=60), VenusA-Valve (N=101), VenusA-Plus (N=62), J-Valve (N=107), TaurusOne (N=120), TaurusElite (N=81), CoreValve (N, TAVI = 391), SAPIEN 3 China trial (N=50), U.S. trial (N=583)

*: The data marked with * represent the incidences of disabling stroke



Consolidated Income Statement

Unit: RMB'000	2022 1H	2021 1H	Var.
Revenue	124,782	86,193	45%
Cost of sales	(45,339)	(38,682)	17%
Gross profit	79,443	47,511	67%
Other net income	12,070	7,711	57%
Research and development costs	(79,610)	(48,998)	62%
Distribution costs	(61,048)	(39,475)	55%
Administrative expenses	(33,940)	(13,884)	144%
Other operating costs	(20,224)	(5,262)	284%
Loss from operations	(103,309)	(52,397)	97%
Finance costs	(2,915)	(17,057)	-83%
Share of losses of associates	(15,327)	-	-
Share of profits of a joint venture	(7)	(112)	-94%
Loss before taxation	(121,558)	(69,566)	75%
Income tax	(822)	(499)	65%
Loss for the period and attributable to the equity shareholders of the Company	(122,380)	(70,065)	75%

Consolidated Balance Sheet

Unit: RMB'000	June 30, 2022 (Unaudited)	December 31, 2021 (Audited)	Var.	
Non-current assets				
Property, plant and equipment	260,102	267,166	-3%	
Intangible assets	225,800	238,752	-5%	
Interest in a joint venture	34,865	33,219	5%	
Interests in associates	293,310	176,738	66%	
Other financial assets	24,910	21,052	189	
Other non-current assets	25,870	25,266	2%	
Total Non-current assets	864,857	762,193	139	
Current assets				
Inventories	109,473	82,732	329	
Trade and other receivables	108,757	113,480	-49	
Pledged and time deposits	202,129	192,027	5%	
Cash and cash equivalents	1,936,935	2,211,560	-129	
Total current assets	2,357,294	2,599,799	-99	
Current liabilities				
Trade and other payables	107,375	126,778	-159	
Contract liabilities	765	2,957	-749	
Lease liabilities	36,193	34,699	49	
Income tax payable	396	-		
Total current liabilities	144,729	164,434	-129	
	2,212,565	2,435,365	-99	

● MicroPort[™] 心通医疗

Our Mission

To provide trustworthy and universal access to state-of-the-art total solutions to treat structural heart diseases

