CMB International Securities | Equity Research | Company Update

Venus Medtech (Hangzhou) Inc. (2500 HK)

First 5-yr follow-up results for VenusA and updated results for first retrievable TAVR in China

- Data released for VenusA-Valve and VenusA-Plus during CIT 2020 Conference. VenusA-Valve's pivotal trial released 5-year follow-up results. For all the enrolled 101 patients, mortality rate at 1-5 years after the TAVR procedures were 5.94%, 11.6%, 17.4%, 26.7%, 34.1%, respectively, indicating VenusA-Valve's good durability. In addition, comparing to 1-yr data, its 5-yr data showed only slight increase in stroke (5 vs 1), myocardial infarction (3 vs 2) and renal failure (3 vs 2). As for efficacy, mean and peak AVG continued to decrease to 9.08mmHg and 19.65mmHg, respectively, in 5 years. Meanwhile, subjects' effective orifice area increased to 1.62 cm² in 5 years. VenusA-Plus also updated its 30-day results, which are better than that of VneusA-Valve, making VenusA-Plus a promising second generation TAVR candidate in China.
- PowerX and Vitae are potential next-generation TAVR products. In CIT 2020 Conference, the Company disclosed two new TAVR products under development: post-release self-expanding valve PowerX system and new balloon-expandable valve Vitae system. Both PowerX and Vitae are preloaded dry valve systems, which are expected to significantly improve the anticalcification performance and duration life of the valve by eliminating the traditional valvular treatment with glutaraldehyde while saving the loading time of during procedures. We expect PowerX to start clinical trials in 2H20E.
- China TAVR market has large growth potential despite of fierce competition. Frost & Sullivan forecasts China TAVR market to grow at a 65.0% CAGR from US\$28.7mn in 2018 to US\$956.6mn in 2025E. Although four TAVR products have been approved in China, including an international player (SAPIEN 3 from Edwards), the penetration of TAVR procedures was very low in China. With more players entering into the market, the penetration will improve fast thanks to wide market education. As the first approved TAVR in China, VenusA-Valve has significant first mover advantage. A comprehensive and diversified product pipelines covering four major heart valves (TAVR, TPVR, TMVR and TTVR) as well as ancillary products also enhance the Company's leadership in China.
- Temporary impact from COVID-19 pandemic. There were delays in TAVR procedures during COVID-19 outbreak while sales are gradually recovering from March. We forecast 2,200 unit sales of VenusA-Valve in FY20E and 6,000 unit sales in FY21E, driven by expanding hospital channel coverage.
- Maintain BUY new TP of HK\$98.2. Considering the improving penetration of TAVR procedures and fast recovery sales of the Company, we expect total revenue to grow 48%/ 175%/ 63% YoY in FY20E/21E/22E and estimate VenusA-Valve sales unit to be 1,550/ 2,200/ 6,000 in FY20E/21E/22E. We lifted our DCF-based TP from HK\$52.0 to HK\$98.2 to reflect potential contribution from PowerX and Vitae (WACC: 9.1%, terminal growth rate: 4.0%).

Earnings Summary

(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (RMB mn)	115	233	344	946	1544
YoY growth (%)	535	102	48	175	63
Net income (RMB mn)	(300)	(381)	(0)	299	515
EPS (RMB)	N/A	(1.22)	(0.00)	0.74	1.27
EPS YoY growth (%)	N/A	N/A	N/A	N/A	72
Consensus EPS (RMB)	N/A	N/A	0.25	1.39	2.27
P/E (x)	N/A	N/A	N/A	102	59
P/B (x)	N/A	8	10	9	8
ROE (%)	(64)	(13)	(0)	9	13
Net gearing (%)	Net cash				

Source: Company data, Bloomberg, CMBIS estimates



BUY (Maintain)

Target Price	HK\$98.2
(Previous TP	HK\$52.0)
Up/Downside	+16.2%
Current Price	HK\$84.5

China Healthcare Sector

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Mkt. Cap. (HK\$ mn)	34,178
Avg. 3mths t/o (HK\$ mn)	57.65
52W High/Low (HK\$)	84.65/35.20
Total Issued Shares (mn)	183
Source: Bloomberg	

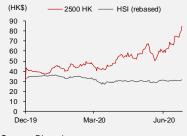
Shareholding Structure	
Management	25.93%
Employee	3.48%
Pre-IPO investors	48.27%
H-share free float	22.33%

Source : HKEx, Bloomberg

Share performance

	Absolute	Relative
1-mth	39.8%	34.0%
3-mth	76.6%	61.7%
6-mth	128.1%	155.7%
Source:	Bloomberg	

12-mth price performance



Source: Bloomberg

Auditor: Ernst & Young

Relative Reports:

 Inline results; Moderate impact fro m COVID-19 – 29 Mar 2020
First mover in the rapid-growing transcatheter valve market – 19 Feb 2020

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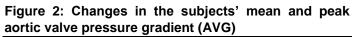
VenusA-Valve: First TAVR with 5-year follow-up results in China

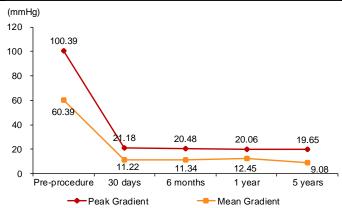
The pivotal trial for VenusA-Valve is a multi-center, single arm, open-label trial (n=101, STS≥4%, NYHA≥II) in China. The trial started enrolment in Sep 2012, and finished enrolment in Feb 2015. All enrolled patients have completed a 5-year follow-up, and some patients have 7-year follow-up. The long-term follow-up results demonstrated VenusA-Valve's good long-term durability.

Figure 1: Updated Clinical data of VenueA-Valve in CIT 2020 Conference

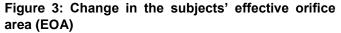
(N=101)	VenusA-Valve						
	30-Day	1-year	5-year				
Age (mean)		75.86					
STS score (mean)		6.68					
Death	5 (5.0%)	6 (6.0%)	29 (34.1%)				
Cardiogenic death	3 (3.0%)	4 (4.0%)	9 (10.6%)				
Non-Cardiogenic death	2 (2.0%)	2 (2.0%)	20 (23.5%)				
Myocardial infarction	2 (2.0%)	2 (2.0%)	3 (3.5%)				
Stroke	1 (1.0%)	1 (1.0%)	5 (5.9%)				
Major stroke	1 (1.0%)	1 (1.0%)	N/A				
Permanent pacemaker implantation	19 (18.8%)	19 (18.8%)	N/A				
Cardiovascular surgery	3 (3.0%)	3 (3.0%)	N/A				
Major vascular complications	6 (5.9%)	6 (5.9%)	N/A				
Renal failure	2 (2.0%)	2 (2.0%)	3 (3.5%)				

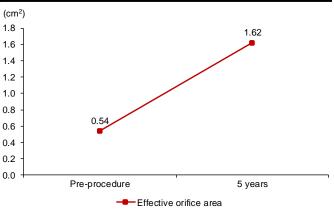
Source: Company data, CIT 2020 Online, CMBIS; Note: N/A represents not applicable or undisclosed.

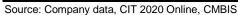














VenusA-Plus: Updated results for first retrievable TAVR in China

VenusA-Plus is a potential second generation TAVR candidate in China. It shares the same PAV and CLS with VenusA-Valve, while features an upgraded DCS with the option to retrieve for more accurate placement.

An updated 30-day results of VenusA-Plus were released in CIT 2020 Conference, which exhibited superior safety data than VneusA-Valve, in terms of mortality, stroke, myocardial infarction, permanent pacemaker implantation and cardiovascular surgery.

Figure 4: Safety endpoint of VenusA-Plus compared to VenusA-Valve

	VenusA-Plus (30 days)	VenusA-Valve (30 days)
Patients numbers	62	101
All-cause Mortality	3 (4.8%)	5 (5.0%)
Myocardial Infarction	0 (0.0%)	2 (2.0%)
Stroke (Disabling)	1 (1.6%)	1 (1.0%)
Permanent Pacemaker Implantation	6 (9.6%)	19 (18.8%)
Cardiovascular Surgery	0 (0.0%)	3 (3.0%)
Comprehensive endpoint event incidence	16.13%	27.7%

Source: Company data, CMBIS

Figure 5: Change in subjects' NYHA functional classification

	Pre-procedure	30 days
Number of subjects	62	
Age (mean)	76.4	
STS score (mean)	6.49	
Level I	0.0%	15.3%
Level II	19.4%	64.4%
Level III	48.4%	20.3%
Level IV	32.3%	0.0%

Source: Company data, CMBIS

Figure 6: Major TAVR products worldwide

Company		Edwards Li	fesciences			Medtronic		Boston	Boston Scientific Abbott		Abbott Venus Medtech Jiecheng M		MicroPort
Product	SAPIEN	SAPIEN XT	SAPIEN 3	Centera	Core Valve	Evolut R	Evolut Pro	Lotus Edge	ACURATE neo	Portico	VenusA-Valve	J-Valve	VitaFlow
	-							S			Ś		Ŵ
FDA Approval	2011	2014	2015	/	2014	2015	2017	2019	/	/	/	/	/
CE Mark	2007	2010	2014	2018	2011	2014	2017	2016	2014	2012	/	/	/
NMPA Approval	/	/	/	/	/	/	/	/	/	/	2017	2017	2019
Expanding Mechanism	BE	BE	BE	SE	SE	SE	SE	ME	SE	SE	SE	SE	SE
Pericardium Material	BP	BP	BP	BP	PP	PP	PP	BP	PP	PP	PP	PP	BP
Vascular Approach	TF/TA	TF/TA	TF/TA	TF	TF	TF	TF	TF	TF/TA	TF	TF	TA	TF
Anti-PVL Design	-	-	+	-	+	+	+	+	+	+	+	+	+
Retreivability	-	-	-	+	-	+	+	+	-	+	-	-	-
Price per unit to patient	N/A	~USD	32,000	N/A	N/A	~US\$	30,000		N/A		~RMB250,000	~RMB290,000	~RMB180,000
Maket share (2018)		67.1%	in US			32.9% in US	5		N/A		79.3% in China	20.7% in China	N/A

Source: Companies, CMBIS; Note: BE=Balloon-expending; SE=Self-expanding; ME=Mechanically-expanding; BP=Bovine Pericardium; PP=Porcine Pericardium; TF=Transfemoral (经股动脉); TA=Transapical (经心尖)



Figure 7: CMBIS earnings revisions

		New			Old		Diff (%)			
(RMB mn)	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	
Revenue	344	946	1,544	386	882	1,398	-10.7%	7.3%	10.4%	
Gross profit	296	823	1,359	332	767	1,230	-10.7%	7.3%	10.4%	
Operating profit	9	324	616	25	301	555	-63.8%	7.9%	10.9%	
Net profit	0	299	515	16	277	464	-101.6%	8.1%	11.1%	
EPS (RMB)	0.00	0.74	1.27	0.04	0.68	1.15	-101.6%	8.1%	11.1%	
Gross margin	86.00%	87.00%	88.00%	86.00%	87.00%	88.00%	0.00ppt	-0.00 ppt	0.00 ppt	
Operating margin	2.65%	34.30%	39.89%	6.53%	34.12%	39.73%	-3.89 ppt	+0.18 ppt	+0.16 ppt	
Net Margin	-0.08%	31.65%	33.39%	4.10%	31.41%	33.20%	-4.18 ppt	+0.24 ppt	+0.19 ppt	

Source: Company data, CMBIS estimates

Figure 8: CMBIS estimates vs consensus

		CMBI		(Consensus		Diff (%)			
(RMB mn)	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	
Revenue	344	946	1,544	376	892	1,394	-8.4%	6.0%	10.8%	
Gross profit	296	823	1,359	319	783	N/A	-7.3%	5.1%	N/A	
Operating profit	9	324	616	-16	328	489	-157.4%	-1.0%	26.1%	
Net profit	0	299	515	-30	274	N/A	-99.1%	9.2%	N/A	
EPS (RMB)	0.00	0.74	1.27	0.25	1.39	2.27	-100.3%	-46.8%	-43.9%	
Gross margin	86.00%	87.00%	88.00%	85.00%	87.80%	N/A	+1.00 ppt	-0.80 ppt	N/A	
Operating margin	2.65%	34.30%	39.89%	-4.22%	36.74%	35.04%	+6.87 ppt	-2.44 ppt	+4.84 ppt	
Net Margin	-0.08%	31.65%	33.39%	-7.85%	30.72%	N/A	+7.77 ppt	+0.93 ppt	N/A	

Source: Company data, CMBIS estimates



Financial Statments

Income statement						Cash flow summary					
YE 31 Dec (RMB mn) Revenue	FY18A 115	FY19A 233	FY20E 344	FY21E 946	FY22E 1544	YE 31 Dec (RMB mn) Profit before tax	FY18A (300)		FY20E (0)	FY21E 315	FY22E 606
VenusA-Valve	114	232	303	760	1232	Depreciation and amortization	(300)	(302)	27	27	27
VenusP-Valve	0	232	14	90	118	Change in working capital	(102)	(77)	(18)	(350)	(342)
TriGUARD3	0	Ő	26	90	185	Others	240	127	7	(9)	(84)
V8 and TAV8	2	1	2	5	8	Net income tax paid	0	(5)	0	(16)	(91)
Cost of sales	(16)	(39)	(48)	(123)	(185)	Net cash from operating	(151)	(303)	16	(17)	207
Gross profit	`9 9	195	296	823	1359		. ,	. ,		. ,	
-						Capex	(27)	(25)	(50)	(50)	(80)
Other income	13	15	20	19	20	Acquisition of subsidiaries	0	(193)	(6)	(6)	(280)
Selling & distribution expenses	(67)	(125)	(110)	(284)	(432)	Purchases of equity investments	0	0	0	0	0
Administrative expenses	(105)	(201)	(100)	(95)	(139)	Net purchases of financial assets	13	13	0	0	0
R&D expenses	(224)	(198)	(52)	(95)	(147)	Others	(181)	173	(274)	6	280
Other gains and losses	(11)	(45)	(45)	(45)	(45)	Net cash from investing	(194)	(31)	(330)	(50)	(80)
Operating profit	(295)	(357)	9	324	616						
						Net proceeds from shares issued	445	2,833	0	0	0
Net of impairment losses	(2)	(2)	(2)	(2)	(2)	Bank borrowing	19	(233)	0	0	0
Net finance costs	(3)	(22)	(7)	(7)	(7)	Loans to related parties	0	0	0	0	0
Pre-tax profit	(300)	(382)	(0)	315	606	Others	(11)	(23)	(7)	(7)	(7)
				(10)	(2.1)	Net cash from financing	453	2,577	(7)	(7)	(7)
Income tax	(1)	1	0	(16)	(91)		(0)	-			
Minority interests	0	0	0	0	0	FX changes	(2)	5	0	0	0
Net profit to shareholders	(300)	(381)	(0)	299	515	Net change in cash	108	2,243	(321)	(74)	120
						Cash at the beginning	59	165	2,413	2,092	,
						Cash at the end	165	2,413	2,092	2,019	2,139
Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY18A			FY21E	FY22E	YE 31 Dec	FY18A	FY19A	FY20E	FY21E	FY22E
Non-current assets	744	764	1,067	1,090	1,143	Sales mix (%)					
PP&E	47	60	102	144	216	VenusA-Valve	99	99	88	80	80
Goodwill	472	480	480	480	480	VenusP-Valve	0	0	4	10	8
Other intangible assets	191	185	446	427	408	TriGUARD3	0	0	8	9	12
Deferred tax assets	3	3	3	3	3	V8 and TAV8	1	1	0	1	1
Equity investments at fair value	29	30	30	30	30	Total	100	100	100	100	100
Prepayments, other receivables and	2	7	7	7	7						
other assets											
						Profit & loss ratios (%)					
Current assets	291	2,904	2,601	2,880	3,344	Gross margin	86	83	86	87	88
Inventories	17	25	25	65	98	EBITDA margin	(232)	(142)	10	37	42
Trade receivables	81	162	179	492	804	Pre-tax margin	(164)	(164)	(0)	33	39
Prepayments, other receivables and	28	303	303	303	303	Net margin	(261)	(163)	(0)	32	33
other assets											
Cash and cash equivalents	166	2,414	2,093	2,019	2,139	Effective tax rate	(0)	0	0	5	15
Others	0	<i></i> 0	0	0	0		. ,	-	-	-	
	-	-	-	-	-	Balance sheet ratios					
Current liabilities	496	568	569	571	573	Current ratio (x)	1	5	5	5	6
Tuada navahlaa	4	4	2	4	6	Trade receivables turnover	156	187	187	187	187
Trade payables	1	1		-	-	Trade receivables turnover		101	107		
Lease liabilities	6	9	9	9	9	Trade payables turnover	30	11	11	11	11
Lease liabilities Other payables and accruals	6 381	9 397	9 397	9 397	9 397			11			11
Lease liabilities	6	9	9	9	9	Trade payables turnover	30	11	11	11	11

Source: Company data, CMBIS estimates

Bank borrowing

Lease liabilities

Total net assets

Minority interest

Shareholders' equity

Non-current liabilities

Deferred tax liabilities

Others

Others

80

28

68

15

39

14

470

462

9

120

41

55

17

37

3,046

3,037

0

9

120

41

55

17

37

3,045

3,037

0

9

120

41

55

17

37

3,345

3,336

0

9

Returns (%)

Per share data

EPS (RMB)

DPS (RMB)

BVPS (RMB)

(64)

(29)

N/A

N/A

N/A

(13)

(10)

(1.22)

0.00

9.79

(0)

(0)

(0.00)

0.00

7.53

9

8

0.74

0.00

8.27

13

11

1.27

0.00

9.54

ROE

ROA

120

41

55

17

37

3,860

0

9 3,852



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