

AK Medical (1789 HK)

Higher growth certainty in 2023E

Despite the negative impact of COVID-19 on surgery demand for orthopedic implants, AK Medical reported FY22E revenue of RMB1,052.0mn, up 38.2% YoY, primarily driven by the revenue growth in hip and knee implants (+44.7% YoY) after the VBP as well as the ICOS customized products (101.3% YoY). GPM was 60.5% (-5.1 ppt) due to the price reduction after VBP. Thanks to the significant reduction in selling expense ratio after the VBP, attributable net profit increased by 121.1% YoY in FY22, 5.9%/ 4.4% above CMBI/ consensus estimates.

- Strong volume growth after VBP more than offset the price cut. In 2022. sales volume of the primary hip system increased by 81% YoY and the primary knee system increased by 130% YoY, attributable to the increasing demand in primary hip and knee replacement operations after VBP. As a result, AK Medical's total revenue from hip and knee implants grew by 44.7% YoY to RMB921.4mn. Moreover, thanks to VBP, AK Medical has successfully covered over 90% of provincial hospitals nationwide. With increasing market share in middle and high-end markets which have greater demand for knee replacement than low-end market, we expect sustained sales growth of primary knee system in the coming years.
- High-margin products safe from VBP to gradually unleash growth potential. AK Medical is the only one in China with 3D printing customized registration certificates and continuous expansion in its Innovative Customized Orthopedic Solution (ICOS) services. As of the end of 2022, the Company has obtained two Class III 3D-printed customized product registration certificates and 54 customized product filings with cooperating hospitals. Growing demand in personized treatment and broadening application prospects drove AK Medical's revenue growth from customized products and services by 101.3% YoY to RMB47.0mn in 2022. We expect the Company's ICOS income to reach RMB70.4mn in 2023E. Besides, with expanded coverage of provincial hospitals and enriched product portfolios, sales of revision products will achieve substantial growth. We believe the increasing proportion of revenue from these high-margin products will enhance AK Medical's profitability in the long term.
- Expect orthopedic surgery demand recovery in 2023E. Several domestic hospitals reported a surge in surgery volume since Feb 2023 due to the pentup surgery demand during the COVID-19 in 2022. We see orthopedic implant, as a non-emergency surgery, to recover rapidly in 2023E post a decrease in the volume during COVID-19 pandemic.
- Maintain BUY. We expect AK Medical's revenue to grow at a CAGR of 31.2% from 2023E to 2025E. We raised our TP to HK\$12.31 based on a 9-year DCF model (WACC: 10.73%, terminal growth rate: 3.0%) to reflect improving profitability thanks to the strong growth of high-margin products in the long term.

Earnings Summary

(YE 31 Dec)	FY21A	FY22A	FY23E	FY24E	FY25E
Revenue (RMB mn)	761	1,052	1,414	1,870	2,434
YoY growth (%)	(26.5)	38.2	34.4	32.3	30.2
Net profit (RMB mn)	93	205	272	367	491
YoY growth (%)	(70.5)	121.1	32.7	35.1	33.7
EPS (Reported) (RMB)	0.08	0.18	0.24	0.33	0.44
YoY growth (%)	(70.8)	121.8	32.0	35.1	33.7
P/E (x)	94.0	42.4	32.1	23.8	17.8
Yield (%)	0.3	0.7	0.8	1.1	1.4
ROE (%)	4.6	9.1	11.1	13.5	15.9
Net gearing (%)	Net cash	Net cash	Net cash	Net cash	Net cash
Source: Company data, Bloomb	perg, CMBIGM est	imates			

BUY (Maintain)

Target Price HK\$12.31 (Previous TP HK\$11.44) Up/Downside 33.7% **Current Price** HK\$9.21

China Healthcare

Jill WU, CFA (852) 3900 0842 jillwu@cmbi.com.hk

Cathy WANG (852) 3916 1729 cathywang@cmbi.com.hk

Stock Data

Mkt Cap (HK\$ mn)	10,276.1
Avg 3 mths t/o (HK\$ mn)	9.3
52w High/Low (HK\$)	10.30/3.82
Total Issued Shares (mn)	1115.8

Source: FactSet

Shareholding Structure Ximalaya Limited

45.3% Gaoling Fund 6.4%

Source: HKEx

Share Performance

	Absolute	Relative
1-mth	-1.7%	-1.7%
3-mth	-5.4%	-4.9%
6-mth	23.8%	7.9%

Source: FactSet

12-mth Price Performance



Source: FactSet

Related report:

Accelerating import substitution; positive outlook of 2023E



Figure 1: Earnings revision

		New			Old			Diff (%)	
RMB mn	FY23E	FY24E	FY25E	FY23E	FY24E	FY25E	FY23E	FY24E	FY25E
Revenue	1,414	1,870	2,434	1,444	1,900	2,424	-2.1%	-1.6%	0.4%
Gross profit	855	1,141	1,497	881	1,150	1,454	-2.9%	-0.8%	2.9%
Operating profit	300	412	558	301	423	575	-0.4%	-2.6%	-2.9%
Net profit	272	367	491	273	377	505	-0.4%	-2.5%	-2.8%
EPS (RMB)	0.24	0.33	0.44	0.24	0.34	0.45	-0.4%	-2.5%	-2.8%
Gross margin	60.50%	61.00%	61.50%	61.00%	60.50%	60.00%	-0.50 ppt	+0.50 ppt	+1.50 ppt
Operating margin	21.21%	22.03%	22.91%	20.85%	22.26%	23.71%	+0.36 ppt	-0.23 ppt	-0.80 ppt
Net Margin	19.23%	19.64%	20.17%	18.90%	19.82%	20.85%	+0.33 ppt	-0.18 ppt	-0.68 ppt

Source: Company data, CMBIGM estimates

Figure 2: Risk-adjusted DCF valuation

DCF Valuation (in Rmb mn)	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E
EBIT	300	412	558	669	796	940	1,099	1,275	1,467
Tax rate	15%	15%	15%	15%	15%	15%	15%	15%	15%
EBIT*(1-tax rate)	255	350	474	569	677	799	935	1,084	1,247
+ D&A	74	74	74	84	94	104	115	125	135
- Change in working capital	-210	-221	-245	-277	-311	-345	-379	-413	-446
- Capex	-50	-50	-50	-57	-63	-70	-77	-84	-91
FCFF	69	154	253	319	397	488	593	711	844
Terminal value									11,257
FCF + Terminal value	69	154	253	319	397	488	593	711	12,102

Terminal growth rate	3.0%
WACC	10.73%
Cost of Equity	13.5%
Cost of Debt	5.0%
Equity Beta	1.05
Risk Free Rate	3.00%
Market Risk Premium	10.0%
Target Debt to Asset ratio	30.0%
Effective Corporate Tax Rate	15.0%
PV of enterprise value (RMB mn) Net debt (RMB mn) Minority interests (RMB mn) Equity value (RMB mn) Equity value (HK\$ mn)	11,032 (646) 0 11,678 13,738
# of shares outstanding (mn)	1,116
Price per share (HK\$)	12.31

Source: CMBIGM estimates

Figure 3: Sensitivity analysis

				WACC		
		9.73%	10.23%	10.73%	11.23%	11.73%
	4.0%	16.97	15.27	13.83	12.60	11.55
	3.5%	15.78	14.29	13.02	11.92	10.97
Terminal growth rate	3.0%	14.77	13.45	12.31	11.33	10.46
_	2.5%	13.90	12.72	11.69	10.80	10.01
	2.0%	13.14	12.08	11.14	10.32	9.60

Figure 4: CMBIGM estimates vs consensus

I igaio ii ombic	,,,, oot,,,,a	100 10 00.	10011040						
		CMBIGM		Consensus					
RMB mn	FY23E	FY24E	FY25E	FY23E	FY24E	FY25E	FY23E	FY24E	FY25E
Revenue	1,414	1,870	2,434	1,413	1,820	2,256	0.0%	2.7%	7.9%
Gross Profit	855	1,141	1,497	838	1,082	1,198	2.0%	5.4%	25.0%
Operating Profit	300	412	558	293	406	600	2.2%	1.4%	-7.1%
Net profit	272	367	491	265	360	542	2.6%	2.0%	-9.4%
EPS (RMB)	0.24	0.33	0.44	0.24	0.32	0.49	2.4%	2.2%	-10.2%
Gross Margin	60.50%	61.00%	61.50%	59.32%	59.46%	53.10%	+1.18 ppt	+1.54 ppt	+8.40 ppt
Operating Margin	21.21%	22.03%	22.91%	20.76%	22.32%	26.60%	+0.44 ppt	-0.28 ppt	-3.68 ppt
Net Margin	19.23%	19.64%	20.17%	18.75%	19.77%	24.02%	+0.47 ppt	-0.13 ppt	-3.85 ppt

Source: Company data, Bloomberg, CMBIGM estimates



Financial Summary

INCOME STATEMENT	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec (RMB mn)	<u> </u>		<u> </u>	<u> </u>		
Revenue	1,035	761	1,052	1,414	1,870	2,434
Cost of goods sold	(321)	(262)	(416)	(558)	(729)	(937)
Gross profit	715	499	636	855	1,141	1,497
Operating expenses	(346)	(400)	(416)	(555)	(729)	(939)
Selling expense	(154)	(187)	(180)	(254)	(337)	(438)
Admin expense	(83)	(105)	(118)	(155)	(196)	(243)
R&D expense	(105)	(113)	(111)	(155)	(206)	(268)
Others	(4)	6	(7)	10	10	10
Operating profit	369	99	220	300	412	558
Net Interest income/(expense)	8	9	20	20	20	20
Pre-tax profit	377	109	240	320	432	578
Income tax	(63)	(16)	(36)	(48)	(65)	(87)
After tax profit	314	93	205	272	367	491
Minority interest	0	0	0	0	0	0
Attributable net profit	314	93	205	272	367	491

BALANCE SHEET	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec (RMB mn)						
Current assets	1,903	1,934	2,065	2,291	2,638	3,087
Cash & equivalents	713	476	626	643	722	869
Account receivables	451	388	467	542	666	800
Inventories	361	423	402	535	679	847
Other current assets	378	648	570	570	570	570
Non-current assets	624	671	709	685	661	637
PP&E	364	382	436	424	412	401
Deferred income tax	51	76	75	75	75	75
Intangibles	76	80	85	73	60	48
Goodwill	133	132	113	113	113	113
Other non-current assets	0	0	0	0	0	0
Total assets	2,527	2,605	2,774	2,976	3,298	3,724
Current liabilities	418	489	436	434	481	538
Short-term borrowings	0	0	0	0	0	0
Account payables	146	93	155	153	200	257
Tax payable	42	52	23	23	23	23
Other current liabilities	230	345	258	258	258	258
Non-current liabilities	66	84	86	86	86	86
Deferred income	12	12	13	13	13	13
Other non-current liabilities	54	72	73	73	73	73
Total liabilities	484	574	522	520	567	624
Share capital	9	9	9	9	9	9
Other reserves	2,033	2,022	2,234	2,438	2,714	3,082
Total shareholders equity	2,043	2,032	2,244	2,448	2,723	3,091
Minority interest	0	0	0	0	0	0
Total equity and liabilities	2,527	2,605	2,766	2,968	3,290	3,715



						A Whelly Owned Subsidiary Of
CASH FLOW	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec (RMB mn)						
Operating						
Profit before taxation	377	109	240	320	432	578
Depreciation & amortization	58	73	74	74	74	74
Tax paid	(45)	(29)	(36)	(48)	(65)	(87)
Change in working capital	(186)	31	(21)	(210)	(221)	(245)
Others	1	(7)	(20)	(20)	(20)	(20)
Net cash from operations	205	177	238	116	201	300
Investing						
Capital expenditure	(351)	(76)	(50)	(50)	(50)	(50)
Net proceeds from disposal of short-term	(548)	(1,039)	0	0	0	0
investments Others	542	818	20	20	20	20
Net cash from investing	(356)	(297)	(30)	(30)	(30)	(30)
Net cash from investing	(330)	(291)	(30)	(30)	(30)	(30)
Financing	()	()	()	()	4==)	4>
Dividend paid	(75)	(37)	(60)	(68)	(92)	(123)
Net borrowings	(2)	0	0	0	0	0
Proceeds from share issues	701	0	0	0	0	0
Others Net cash from financing	(13) 612	(64)	0	0	0	0 (133)
Net cash from imancing	612	(101)	(60)	(68)	(92)	(123)
Net change in cash						
Cash at the beginning of the year	277	713	476	626	643	722
Exchange difference	(24)	(16)	0	0	0	0
Cash at the end of the year	713	476	624	643	722	869
GROWTH	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec						
Revenue	11.7%	(26.5%)	38.2%	34.4%	32.3%	30.2%
Gross profit	11.1%	(30.1%)	27.5%	34.4%	33.4%	31.3%
Operating profit	16.9%	(73.0%)	121.2%	36.3%	37.4%	35.4%
EBITDA	24.3%	(59.6%)	70.6%	27.1%	30.0%	30.0%
EBIT	16.9%	(73.0%)	121.2%	36.3%	37.4%	35.4%
Net profit	17.6%	(70.5%)	121.1%	32.7%	35.1%	33.7%
PROFITABILITY	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec						
Gross profit margin	69.0%	65.6%	60.5%	60.5%	61.0%	61.5%
Operating margin	35.6%	13.1%	20.9%	21.2%	22.0%	22.9%
EBITDA margin	41.3%	22.6%	28.0%	26.5%	26.0%	26.0%
Return on equity (ROE)	15.4%	4.6%	9.1%	11.1%	13.5%	15.9%
GEARING/LIQUIDITY/ACTIVITIES	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec						
Net debt to equity (x)	(0.4)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)
Current ratio (x)	4.6	4.0	4.7	5.3	5.5	5.7
Receivable turnover days	127.3	201.0	148.3	140.0	130.0	120.0
Inventory turnover days	335.6	545.4	362.4	350.0	340.0	330.0
Payable turnover days	127.8	166.0	108.9	100.0	100.0	100.0
VALUATION	2020A	2021A	2022A	2023E	2024E	2025E
YE 31 Dec						
P/E	27.4	94.0	42.4	32.1	23.8	17.8
Div yield (%)	0.4	0.3	0.7	0.8	1.1	1.4
EV/Sales	7.7	10.7	7.6	5.7	4.3	3.2
EV/EBIT	21.5	81.7	36.6	26.8	19.3	14.0
EV/EBITDA	18.6	47.1	27.4	21.5	16.4	12.3

 $Source: Company\ data,\ CMBIGM\ estimates.\ Note:\ The\ calculation\ of\ net\ cash\ includes\ financial\ assets.$



Disclosures & Disclaimers

Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

CMBIGM Ratings

BUY : Stock with potential return of over 15% over next 12 months
HOLD : Stock with potential return of +15% to -10% over next 12 months
SELL : Stock with potential loss of over 10% over next 12 months

NOT RATED : Stock is not rated by CMBIGM

OUTPERFORM : Industry expected to outperform the relevant broad market benchmark over next 12 months

MARKET-PERFORM : Industry expected to perform in-line with the relevant broad market benchmark over next 12 months

UNDERPERFORM : Industry expected to underperform the relevant broad market benchmark over next 12 months

CMB International Global Markets Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Global Markets Limited ("CMBIGM") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIGM does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIGM recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIGM, solely for the purpose of supplying information to the clients of CMBIGM or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIGM nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIGM has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIGM provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIGM may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIGM may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIGM may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIGM does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIGM may have a conflict of interest that could affect the objectivity of this report and CMBIS will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIGM. Additional information on recommended securities is available upon request.

For recipients of this document in the United Kingdom

This report has been provided only to persons (l)falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time) ("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc...) of the Order, and may not be provided to any other person without the prior written consent of CMBIGM.

For recipients of this document in the United States

CMBIGM is not a registered broker-dealer in the United States. As a result, CMBIGM is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. The research analyst who is primary responsible for the content of this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA"). The analyst is not subject to applicable restrictions under FINRA Rules intended to ensure that the analyst is not affected by potential conflicts of interest that could bear upon the reliability of the research report. This report is intended for distribution in the United States solely to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, as amended, and may not be furnished to any other person in the United States. Each major US institutional investor that receives a copy of this report by its acceptance hereof represents and agrees that it shall not distribute or provide this report to any other person. Any U.S. recipient of this report wishing to effect any transaction to buy or sell securities based on the information provided in this report should do so only through a U.S.-registered broker-dealer.

For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.