Q1: Quarterly Industry Update

AS OF March 31, 2018



Medical Devices

INDUSTRY SUMMARY

COGENT VALUATION identified **Medical Devices** publicly traded companies, IPOs, and recent M&A transactions within the Medical Devices industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Over the last year since March 31, 2017, the median 52-week share price return of the Medical Devices industry was 16.7%. Between March 31, 2016 and March 31, 2018, the median EV/EBITDA multiple increased from 14.9 to 19.3. Furthermore, the median price-to-earnings multiple increased from 35.7 to 45.0 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 2.4% and 9.4%, respectively.

Public Company Key Statistics

Med	dian 52-Week urn	
Reti	urn	

Median 3-Year CAGR Return Median EV/Revenue Multiple

12.2%

6.7%

4.1x

Median EV/EBITDA Multiple

Median Price/Earnings Multiple

Median EV/Gross CF Multiple

19.3x

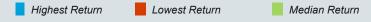
45.0x

37.9x

Comparable Public Company Market Price Returns as of March 31, 2018

	YTD	3 Month	1 Year	2 Year	3 Year	2016	2015	2014
ABIOMED, Inc.	55.3%	17.7%	1 Year	34.8%	89.4%	137.2%	42.3%	99.0%
AngioDynamics, Inc.	3.7%	5.4%	132.4%	13.8%	7.6%	-36.1%	10.8%	56.1%
Atossa Genetics Inc.	69.6%	6.0%	-0.6%	-78.6%	-70.3%	-77.6%	-38.4%	-40.5%
AtriCure, Inc.	12.5%	-7.8%	-41.3%	1.0%	15.0%	12.4%	6.9%	170.7%
Becton, Dickinson and Company	1.2%	0.4%	7.2%	21.5%	19.9%	10.7%	25.9%	41.3%
BIOLASE, Inc.	-4.8%	-37.9%	18.1%	-18.2%	-37.7%	-68.0%	-6.6%	56.1%
Boston Scientific Corporation	10.2%	5.2%	-69.9%	33.3%	35.2%	39.2%	10.2%	109.8%
Cardiovascular Systems, Inc.	-7.4%	-12.7%	9.9%	33.3%	6.0%	-49.7%	-12.3%	173.2%
CAS Medical Systems, Inc.	63.7%	-20.7%	-22.4%	-14.2%	-22.0%	7.3%	-2.9%	-20.9%
CryoLife, Inc.	4.7%	2.0%	-13.1%	52.7%	32.0%	-4.9%	2.2%	78.0%
Cutera, Inc.	10.8%	-15.2%	20.4%	77.8%	60.0%	19.8%	4.9%	13.1%
Cytosorbents Corporation	8.5%	5.5%	142.8%	-0.9%	2.6%	-44.0%	218.4%	-3.8%
Daxor Corporation	109.5%	-12.2%	56.7%	-23.1%	-6.2%	8.9%	2.2%	-10.1%
InspireMD, Inc.	-76.9%	-30.5%	29.5%	-24.5%	7.0%	48.8%	55.5%	160.6%
LeMaitre Vascular, Inc.	13.8%	9.0%	-97.0%	-39.7%	-25.1%	-35.3%	-12.3%	22.5%
Merit Medical Systems, Inc.	5.0%	-67.7%	47.1%	-64.0%	-53.7%	-34.2%	-18.3%	107.3%
NeuroMetrix, Inc.	-18.4%	-8.1%	56.9%	19.9%	14.7%	17.0%	17.8%	92.4%
NuVasive, Inc.	-10.7%	-40.1%	-71.6%	-90.1%	-91.0%	-88.7%	-68.4%	-36.9%
Median of Industry Public Companies	13.6%	19.9%	88.6%	75.2%	75.9%	125.5%	-4.5%	39.5%

Multiple year periods are calculated as the average annual return.



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Public Company Median Multiples by Quarter

	3/31/18	12/31/17	9/30/17	6/30/17	12/31/16	9/30/16	6/30/16	3/31/16
EV/Revenues Multiple	4.1x	3.8x	4.1x	4.4x	3.9x	3.7x	3.1x	3.1x
EV/EBITDA Multiple	19.3x	18.2x	15.6x	17.3x	16.4x	17.1x	15.8x	14.9x
Price/Earnings Multiple	45.0x	43.7x	46.6x	45.9x	38.5x	42.2x	35.3x	35.7x
EV/Gross Cash Flows Multiple	37.9x	30.2x	29.3x	29.6x	27.6x	29.1x	27.7x	27.7x
Highest Multiple Lowest Multiple	Median	Multiple						

Industry Initial Public Offerings—Industry: Medical Devices (dollars in millions, except share prices)

Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
3/22/18	Medartis Holding AG	\$50.56	2.5	\$130.5	\$3.4	\$1.2	\$107.8	\$16.7	(\$0.0)	\$0.0
11/22/17	IRRAS AB	\$5.37	6.4	\$34.6	N/A	N/A	\$1.4	(\$5.6)	N/A	N/A
10/11/17	Biom'Up S.A.	\$12.44	3.6	\$45.2	\$7.1	\$0.5	\$3.3	\$0.0	(\$5.1)	(\$4.2)
6/20/17	Sedana Medical AB (publ)	\$2.22	5.1	\$11.4	\$18.5	\$9.9	\$3.9	(\$0.0)	(\$17.8)	(\$16.3)
12/8/16	Acarix A/S	\$1.93	8.0	\$15.3	\$379.1	\$10.5	N/A	N/A	\$48.3	\$91.6
11/3/16	Neurotech International Limited	\$0.15	35.0	\$5.4	\$0.8	\$0.0	\$0.1	(\$2.3)	(\$2.3)	\$0.0
10/5/16	Obalon Therapeutics, Inc.	\$15.00	5.0	\$75.0	\$3.9	(\$0.3)	\$3.6	(\$16.5)	(\$1.1)	\$0.0
7/12/16	Vincent Medical Holdings Limited	\$0.13	89.3	\$16.4	\$208.7	\$23.2	\$59.6	\$11.6	(\$18.2)	\$10.1
4/28/16	PAVmed Inc.	\$5.00	1.1	\$5.3	\$102.7	\$39.5	\$0.0	\$0.0	(\$58.0)	(\$34.1)
2/28/16	Invent Medic Sweden AB (publ)	\$0.35	3.0	\$1.1	\$24.4	\$28.7	\$0.1	\$0.0	(\$32.0)	(\$22.0)
11/10/15	Advanced Accelerator Applications S.A.	\$16.00	4.7	\$75.0	\$2.6	\$0.0	\$95.8	\$1.8	(\$0.7)	(\$0.7)
6/4/15	EndoChoice Holdings, Inc.	\$15.00	6.4	\$95.3	\$56.1	\$0.0	\$64.3	(\$39.7)	(\$29.1)	(\$27.6)
1/30/15	Avinger, Inc.	\$13.00	5.0	\$132.4	\$301.9	\$57.9	\$11.2	(\$23.6)	(\$41.8)	(\$2.7)
12/19/14	MedoveX Corp.	\$5.75	1.4	\$78.0	\$58.6	\$47.7	\$0.0	(\$0.7)	(\$53.4)	(\$45.0)
11/13/13	Nevro Corp.	\$18.00	7.0	\$120.0	\$48.6	\$29.3	\$29.1	(\$37.1)	(\$48.1)	(\$34.2)
10/8/13	LDR Holding Corporation	\$15.00	2.5	\$75.0	\$77.7	\$53.2	\$104.6	\$2.6	(\$15.3)	\$5.7
8/2/12	Globus Medical, Inc.	\$12.00	8.3	\$100.0	\$367.3	\$0.0	\$363.0	\$127.1	\$67.0	\$144.5
6/27/12	Tesaro, Inc.	\$13.50	6.0	\$81.0	\$93.0	\$0.0	\$0.0	(\$23.2)	(\$23.2)	(\$23.2)
4/30/12	Supernus Pharmaceuticals, Inc.	\$5.00	3.4	\$50.0	\$43.2	\$29.1	\$1.0	(\$35.5)	\$55.6	(\$34.9)
11/17/11	Sphere Medical Holding PLC	\$1.46	15.1	\$22.1	\$12.4	\$0.0	\$0.0	(\$4.5)	(\$5.1)	(\$4.2)
5/20/15	Median of all IPOs	nm	nm	\$62.5	\$43.2	\$9.1	\$11.2	(\$4.3)	(\$10.9)	(\$3.6)

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

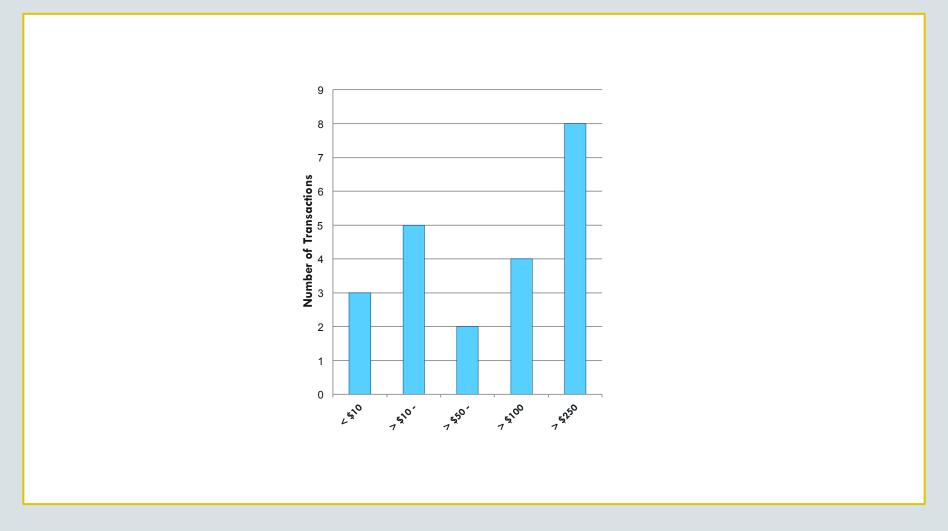
Transaction Date	^D Target	Acquirer	Transaction Size	% Bought
1/23/18	Argon Medical Devices	Weigao International Medical HK	\$844.2	76%
12/1/17	Harpoon Medical, Inc.	Edwards Lifesciences Corporation	\$250.0	100%
12/1/17	JOTEC GmbH	CryoLife, Inc.	\$253.6	100%
8/31/17	Eternity Healthcare, Inc.	Team Youn Bio Medicine	\$1.2	100%
8/9/17	The Spectranetics Corporation	Philips Holding USA Inc.	\$2,117.3	100%
7/21/17	Electrical Geodesics, Inc.	Philips Holding USA Inc.	\$38.6	100%
7/13/17	Spirox, Inc.	Entellus Medical, Inc.	\$81.3	100%
7/3/17	WOM World of Medicine AG	Novanta Europe GmbH	\$132.2	100%
6/19/17	Refine LLC	Sinclair Pharma plc	\$7.3	100%
5/22/17	BarioSurg, Inc.	EnteroMedics Inc.	\$31.3	100%
1/4/17	Nuelle, Inc.	Aytu BioScience, Inc.	\$32.6	100%
12/8/16	Ergon Medical Limited	InnovaDerma PLC	\$81.4	100%
11/21/16	EndoChoice Holdings, Inc.	Boston Scientific	\$250.7	100%
9/16/16	Laborie Medical Technologies, Inc.	Patricia Industries AB	\$640.0	97%
USA	International Highest Lowe	est Median		

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Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	Target	Acquirer	Transaction Size	% Bought
9/1/16	Magellan Diagnostics, Inc.	Meridian Bioscience, Inc.	\$66.0	100%
8/22/16	TriVascular Technologies, Inc.	Endologix, Inc.	\$173.1	100%
7/14/16	Inova Labs, Inc.	ResMed Inc.	\$110.0	100%
6/29/16	Cardiac Science Corporation	CFS 915 LLC	\$82.7	100%
5/2/16	NorMedix, Inc.	SurModics, Inc.	\$14.0	100%
4/29/16	Lazarus Effect, Inc.	Medtronic plc	\$100.0	100%
4/8/16	DreamCIS, Inc.	Hangzhou Tigermed Consulting Co.	\$28.6	98%
4/4/16	Cardiolnsight Technologies Inc.	Medtronic plc	\$123.0	100%
9/1/16	Magellan Diagnostics, Inc.	Meridian Bioscience, Inc.	\$66.0	100%
8/22/16	TriVascular Technologies, Inc.	Endologix, Inc.	\$173.1	100%
Medi	an of the 22 M&A Transaction Targets	ResMed Inc.	\$110.0	100%
USA	International Highest L	owest Median		

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of March 31, 2018





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for additional information or questions in connection with this research report.



Definitions of Financial Terms Used in this Quarterly Industry Update:

Enterprise Value (EV): Market Value of Equity + Market Value of Debt —Cash

Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA): Profitability metric sometimes also referred to as operating profit or operating earnings.

Gross Cash Flows: Net Income + Depreciation and Amortization Expense

Latest Twelve Months (LTM): Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

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