

Q4: Quarterly Industry Update

AS OF December 31, 2019

cogent valuation
FINANCIAL OPINIONS

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 December 31, 2018, the median 52-week share price return of the Medical Devices industry was 47.6%. Between December 31, 2017 and December 31, 2019, the median EV/EBITDA multiple increased from 17.1 to 20.0. Furthermore, the median price-to-earnings multiple increased from 42.2 to 53.9 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 1.9% and 10.4%, respectively.

Public Company Key Statistics

Median 52-Week
Return

30%

Median 3-Year CAGR
Return

29%

Median EV/Revenue
Multiple

4.7x

Median EV/EBITDA
Multiple

20x

Median Price/Earnings
Multiple

53.9x

Median EV/Gross CF
Multiple

38.5x

Comparable Public Company Market Price Returns as of December 31, 2019

	2019	3 Month	1 Year	2 Year	3 Year	2018	2017	2016
ABIOMED, Inc.	55.3%	55.3%	9.9%	34.8%	89.4%	66.3%	42.3%	99.0%
AngioDynamics, Inc.	3.7%	3.7%	132.4%	13.8%	7.6%	-1.4%	10.8%	56.1%
Atossa Genetics Inc.	69.6%	69.6%	-0.6%	-78.6%	-70.3%	-81.3%	-38.4%	-40.5%
AtriCure, Inc.	12.5%	12.5%	-41.3%	1.0%	15.0%	-6.8%	6.9%	170.7%
Becton, Dickinson and Company	1.2%	1.2%	7.2%	21.5%	19.9%	29.3%	25.9%	41.3%
BIOLASE, Inc.	-4.8%	-4.8%	18.1%	-18.2%	-37.7%	-69.5%	-6.6%	56.1%
Boston Scientific Corporation	10.2%	10.2%	-69.9%	33.3%	35.2%	14.6%	10.2%	109.8%
Cardiovascular Systems, Inc.	-7.4%	-7.4%	9.9%	33.3%	6.0%	-2.1%	-12.3%	173.2%
CAS Medical Systems, Inc.	63.7%	63.7%	-22.4%	-14.2%	-22.0%	-52.2%	-2.9%	-20.9%
CryoLife, Inc.	4.7%	4.7%	-13.1%	52.7%	32.0%	0.0%	2.2%	78.0%
Cutera, Inc.	10.8%	10.8%	20.4%	77.8%	60.0%	161.4%	4.9%	13.1%
Cytosorbents Corporation	8.5%	8.5%	142.8%	-0.9%	2.6%	19.3%	218.4%	-3.8%
Daxor Corporation	109.5%	109.5%	56.7%	-23.1%	-6.2%	-44.5%	2.2%	-10.1%
InspireMD, Inc.	29.2%	29.2%	29.5%	-24.5%	7.0%	-3.9%	55.5%	160.6%
LeMaitre Vascular, Inc.	-20.9%	-20.9%	-97.0%	-39.7%	-25.1%	-6.5%	-12.3%	22.5%
Merit Medical Systems, Inc.	42.9%	42.9%	47.1%	-64.0%	-53.7%	99.9%	-18.3%	107.3%
NeuroMetrix, Inc.	21.2%	21.2%	56.9%	19.9%	14.7%	65.7%	17.8%	92.4%
NuVasive, Inc.	-76.9%	-76.9%	-71.6%	-90.1%	-91.0%	-94.9%	-68.4%	-36.9%
Median of Industry Public Companies	13.8%	13.8%	88.6%	75.2%	75.9%	-7%	-4.5%	39.5%

Multiple year periods are calculated as the average annual return.

■ Highest Return
 ■ Lowest Return
 ■ Median Return

Public Company Median Multiples by Quarter

	12/31/19	9/30/19	6/30/19	3/31/19	12/31/18	9/30/18	6/30/18	3/31/18
EV/Revenues Multiple	4.7x	5.0x	4.1x	3.8x	4.1x	4.4x	4.2x	3.9x
EV/EBITDA Multiple	20.0x	19.7x	19.1x	17.8x	15.6x	17.3x	16.9x	16.4x
Price/Earnings Multiple	53.9x	48.4x	45.0x	43.7x	46.6x	45.9x	46.7x	38.5x
EV/Gross Cash Flows Multiple	38.5x	36.3x	31.1x	30.2x	29.2x	29.6x	28.9x	27.6x

■ Highest Multiple
 ■ Lowest Multiple
 ■ Median Multiple

Industry Initial Public Offerings—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
12/1/19	Medartis Holding AG	\$50.56	1.5	\$130.5	\$3.4	\$1.2	\$107.8	\$16.7	(\$0.0)	\$0.0
11/1/19	IRRAS AB	\$5.37	2.2	\$34.6	N/A	N/A	\$1.4	(\$5.6)	N/A	N/A
8/29/19	Biom'Up S.A.	\$12.44	2.5	\$45.2	\$7.1	\$0.5	\$3.3	\$0.0	(\$5.1)	(\$4.2)
6/22/19	IRRAS AB	\$5.37	6.4	\$11.4	\$18.5	\$9.9	\$3.9	(\$0.0)	(\$17.8)	(\$16.3)
11/22/18	Biom'Up S.A.	\$12.44	3.6	\$15.3	\$379.1	\$10.5	N/A	N/A	\$48.3	\$91.6
3/22/18	Sedana Medical AB (publ)	\$2.22	5.1	\$5.4	\$0.8	\$0.0	\$0.1	(\$2.3)	(\$2.3)	\$0.0
11/22/17	Acarix A/S	\$1.93	8.0	\$75.0	\$3.9	(\$0.3)	\$3.6	(\$16.5)	(\$1.1)	\$0.0
10/11/17	Neurotech International Limited	\$0.15	35.0	\$16.4	\$208.7	\$23.2	\$59.6	\$11.6	(\$18.2)	\$10.1
4/28/16	Obalon Therapeutics, Inc.	\$15.00	5.0	\$5.3	\$102.7	\$39.5	\$0.0	\$0.0	(\$58.0)	(\$34.1)
2/28/16	Invent Medic Sweden AB (publ)	\$0.13	89.3	\$1.1	\$24.4	\$28.7	\$0.1	\$0.0	(\$32.0)	(\$22.0)
11/10/15	Advanced Accelerator Applications S.A.	\$5.00	1.5	\$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)

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

Transaction Date	Target	Acquirer	Transaction Size	% Bought
12/7/19	Novate Medical Limited	BTG plc	\$150.0	76%
11/30/19	Spinal Kinetics, Inc.	Blackstone Medical, Inc.	\$105.0	100%
4/20/19	Cogentix Medical, Inc.	LM US Parent, Inc.	\$238.1	100%
4/16/18	nVision Medical Corporation	Boston Scientific Corporation	\$275.0	100%
1/23/18	Argon Medical Devices	Weigao International Medical HK	\$844.2	100%
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.	Aytu BioScience, Inc.	\$81.3	100%
12/8/16	WOM World of Medicine AG	InnovaDerma PLC	\$132.2	100%
11/21/16	EndoChoice Holdings, Inc.	Boston Scientific	\$7.3	100%
9/16/16	Laborie Medical Technologies, Inc.	Patricia Industries AB	\$640.0	97%

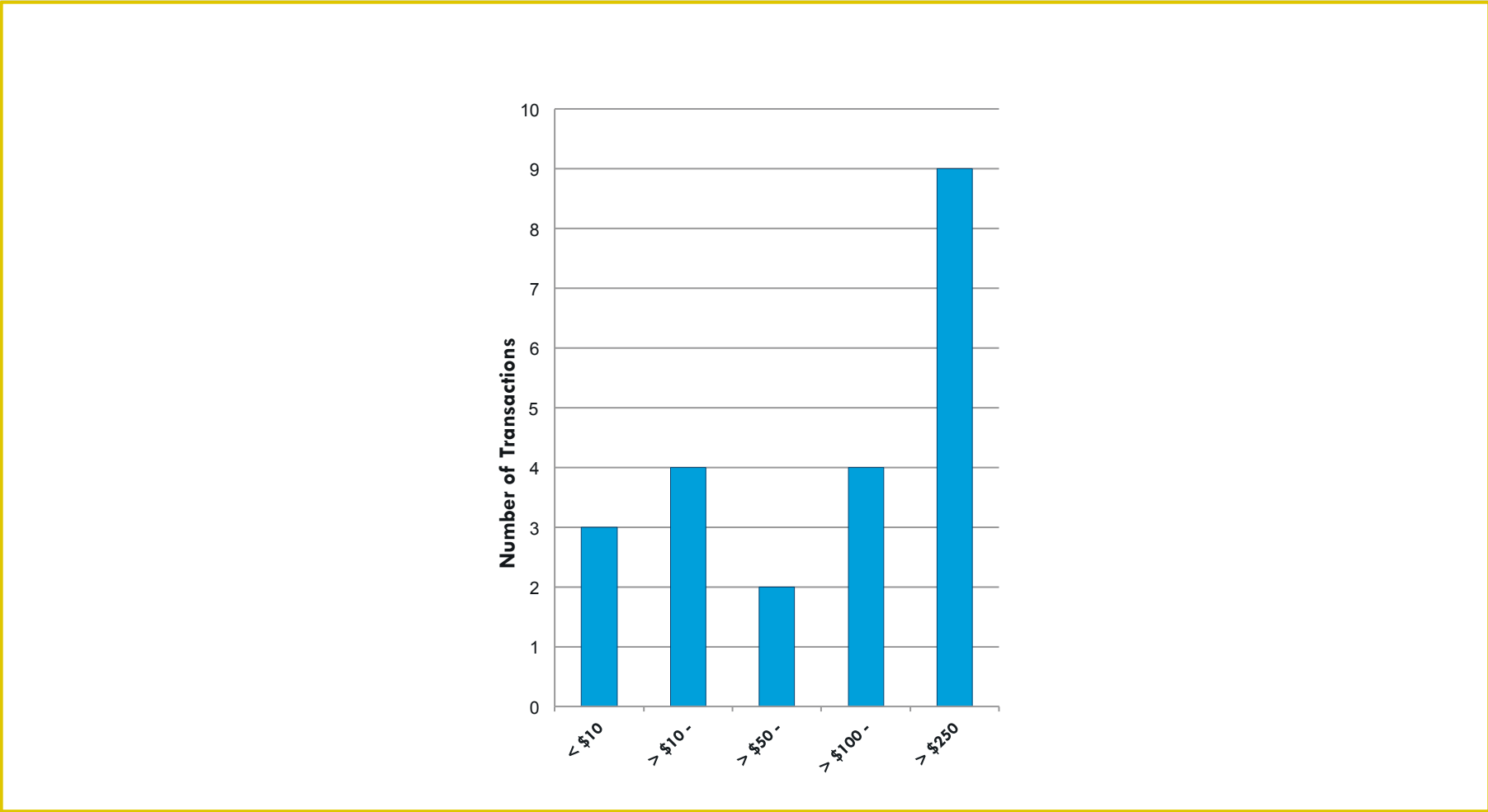
■ USA ■ International

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Size of 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	CardioInsight Technologies Inc.	Medtronic plc	\$123.0	100%
Median of the 22 M&A Transaction Targets			\$82.7	100%

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



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): 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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