

## 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 June 30, 2016, the median 52-week share price return of the Medical Devices industry was 24.9%. Between June 30, 2015 and June 30, 2017, the median EV/EBITDA multiple increased from 14.0 to 17.1. Furthermore, the median price-to-earnings multiple increased from 36.0 to 49.7 over the same period.

### Public Company Key Statistics

Median 52-Week  
Return

14.9%

Median 3-Year CAGR  
Return

15.3%

Median EV/Revenue  
Multiple

4.4x

Median EV/EBITDA  
Multiple

17.1x

Median Price/Earnings  
Multiple

49.7x

Median EV/Gross CF  
Multiple

28.7x

## Comparable Public Company Market Price Returns as of June 30, 2017

	YTD	3 Month	1 Year	2 Year	3 Year	2016	2015	2014
<b>ABIOMED, Inc.</b>	58.7%	14.5%	31.1%	47.7%	78.6%	137.2%	42.3%	99.0%
<b>AngioDynamics, Inc.</b>	33.5%	-6.6%	12.8%	-0.6%	-0.2%	-36.1%	10.8%	56.1%
<b>Atossa Genetics Inc.</b>	-89.6%	-34.2%	-88.1%	-82.8%	-72.9%	-77.6%	-38.4%	-40.5%
<b>AtriCure, Inc.</b>	8.1%	26.6%	71.6%	-0.8%	9.7%	12.4%	6.9%	170.7%
<b>Becton, Dickinson and Company</b>	26.6%	6.4%	15.0%	17.4%	18.1%	10.7%	25.9%	41.3%
<b>BIOLASE, Inc.</b>	15.3%	-28.1%	-17.1%	-25.3%	-23.9%	-68.0%	-6.6%	56.1%
<b>Boston Scientific Corporation</b>	50.3%	11.5%	18.6%	25.1%	29.5%	39.2%	10.2%	109.8%
<b>Cardiovascular Systems, Inc.</b>	113.2%	14.0%	75.4%	10.4%	1.1%	-49.7%	-12.3%	173.2%
<b>DexCom, Inc.</b>	-10.7%	-13.7%	-7.8%	-4.4%	22.6%	48.8%	55.5%	160.6%
<b>Endologix, Inc.</b>	-50.9%	-32.9%	-61.0%	-43.7%	-31.6%	-35.3%	-12.3%	22.5%
<b>EnteroMedics Inc.</b>	-96.4%	-13.5%	-75.5%	-91.3%	-85.5%	-90.8%	-30.4%	-27.1%
<b>Escalon Medical Corp.</b>	-80.2%	110.0%	-73.1%	-61.5%	-50.3%	-34.2%	-18.3%	107.3%
<b>Globus Medical, Inc.</b>	19.2%	11.9%	39.1%	13.6%	11.5%	17.0%	17.8%	92.4%
<b>InspireMD, Inc.</b>	-97.0%	-32.3%	-91.6%	-90.2%	-90.3%	-88.7%	-68.4%	-36.9%
<b>LeMaitre Vascular, Inc.</b>	81.0%	26.8%	118.8%	60.9%	55.7%	125.5%	-4.5%	39.5%
<b>Merit Medical Systems, Inc.</b>	105.2%	32.0%	92.4%	33.1%	36.2%	7.3%	10.1%	13.2%
<b>MGC Diagnostics Corporation</b>	24.2%	-1.9%	25.8%	19.9%	-0.4%	3.1%	-49.4%	114.6%
<b>NeuroMetrix, Inc.</b>	-83.0%	-45.8%	-79.7%	-69.6%	-64.9%	-74.6%	-33.2%	12.5%
<b>Median of Industry Public Companies</b>	15.3%	3.0%	14.9%	-0.6%	1.1%	-4.9%	2.2%	37.1%

Multiple year periods are calculated as the average annual return.

■ Highest Return
 ■ Lowest Return
 ■ Median Return

## Median Public Companies

The chart below illustrates Public Company Multiples.

	6/30/17	3/31/17	12/31/16	9/30/16	6/30/16	3/31/16	12/31/15	9/30/15
<b>EV/Revenues Multiple</b>	4.4x	4.2x	3.8x	3.7x	3.1x	3.1x	3.4x	3.1x
<b>EV/EBITDA Multiple</b>	17.1x	16.0x	16.2x	17.1x	15.2x	14.9x	13.3x	14.3x
<b>Price/Earnings Multiple</b>	49.7x	44.7x	35.8x	40.6x	35.2x	34.0x	33.4x	35.0x
<b>EV/Gross Cash Flows Multiple</b>	28.7x	28.3x	26.4x	28.0x	27.2x	27.0x	40.0x	26.8x

■ 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
6/20/17	Sedana Medical AB (publ)	\$2.22	5.1	\$11.4	\$3.4	\$1.2	\$3.9	(\$0.0)	(\$0.0)	\$0.0
12/8/16	Acarix A/S	\$1.93	8.0	\$15.3	N/A	N/A	N/A	N/A	N/A	N/A
11/3/16	Neurotech International Limited	\$0.15	35.0	\$5.4	\$7.1	\$0.5	\$0.2	(\$4.3)	(\$5.1)	(\$4.2)
10/5/16	Obalon Therapeutics, Inc.	\$15.00	5.0	\$75.0	\$18.5	\$9.9	\$3.6	(\$16.5)	(\$17.8)	(\$16.3)
7/12/16	Vincent Medical Holdings Limited	\$0.13	89.3	\$16.4	\$379.1	\$10.5	\$462.5	\$89.9	\$48.3	\$91.6
4/28/16	PAVmed Inc.	\$5.00	1.1	\$5.3	\$0.8	\$0.0	\$0.0	\$0.0	(\$2.3)	\$0.0
2/28/16	Invent Medic Sweden AB (publ)	\$0.35	3.0	\$1.1	\$3.9	\$0.3	\$0.5	\$0.0	(\$1.1)	\$0.0
11/10/15	Advanced Accelerator Applications S.A.	\$16.00	4.7	\$75.0	\$208.7	\$23.2	\$85.8	\$1.6	(\$18.2)	\$10.1
6/4/15	EndoChoice Holdings, Inc.	\$15.00	6.4	\$95.3	\$102.7	\$39.5	\$64.3	(\$39.7)	(\$58.0)	(\$34.1)
1/30/15	Avinger, Inc.	\$13.00	5.0	\$65.0	\$24.4	\$28.7	\$11.2	(\$23.6)	(\$32.0)	(\$22.0)
12/19/14	Medovex Corporation	\$5.75	1.4	\$8.0	\$2.6	\$0.0	\$0.0	(\$0.7)	(\$0.7)	(\$0.7)
11/5/14	Nevro Corp.	\$18.00	7.0	\$126.0	\$56.1	\$0.0	\$29.1	(\$27.7)	(\$29.1)	(\$27.6)
5/7/14	K2M Group Holdings, Inc.	\$15.00	8.8	\$132.4	\$301.9	\$57.9	\$162.2	(\$9.3)	(\$41.8)	(\$2.7)
4/15/14	TriVascular Technologies, Inc.	\$12.00	6.5	\$78.0	\$58.6	\$47.7	\$23.6	(\$46.0)	(\$53.4)	(\$45.0)
11/13/13	Tandem Diabetes Care, Inc.	\$15.00	8.0	\$120.0	\$48.6	\$29.3	\$21.0	(\$37.1)	(\$48.1)	(\$34.2)
10/8/13	LDR Holding Corporation	\$15.00	5.0	\$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	Target	Acquirer	Transaction Size	% Bought
6/19/17	Refine LLC	Sinclair Pharma plc	\$7.3	100%
5/22/17	BarioSurg, Inc.	EnteroMedics Inc.	\$31.3	100%
5/5/17	Nuelle, Inc.	Aytu BioScience, Inc.	\$32.6	100%
5/2/17	Ergon Medical Limited	Innovaderma PLC	\$1.6	100%
2/17/17	Vascular Solutions, Inc.	Teleflex Incorporated	\$1,007.2	100%
1/4/17	St. Jude Medical, Inc.	Abbott Laboratories	\$30,336.5	100%
12/8/16	Lifeline Scientific, Inc.	Shanghai Genext Medical	\$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%
9/1/16	Xeridiam Medical Devices, Inc.	PPC Industries, Inc.	\$10.5	100%
5/2/16	CORPAK MedSystems, Inc.	Halyard Health, Inc.	\$174.0	100%
4/29/16	Alcoa Remmele Medical	Lisi Medical SAS	\$102.0	100%
4/8/16	Biosensors International	CITIC Private Equity Funds	\$1,104.4	80%
4/4/16	Creganna-Tactx Medical	TE Connectivity Ltd.	\$895.0	100%

■ USA
 ■ International
 ■ Highest
 ■ Lowest
 ■ Median

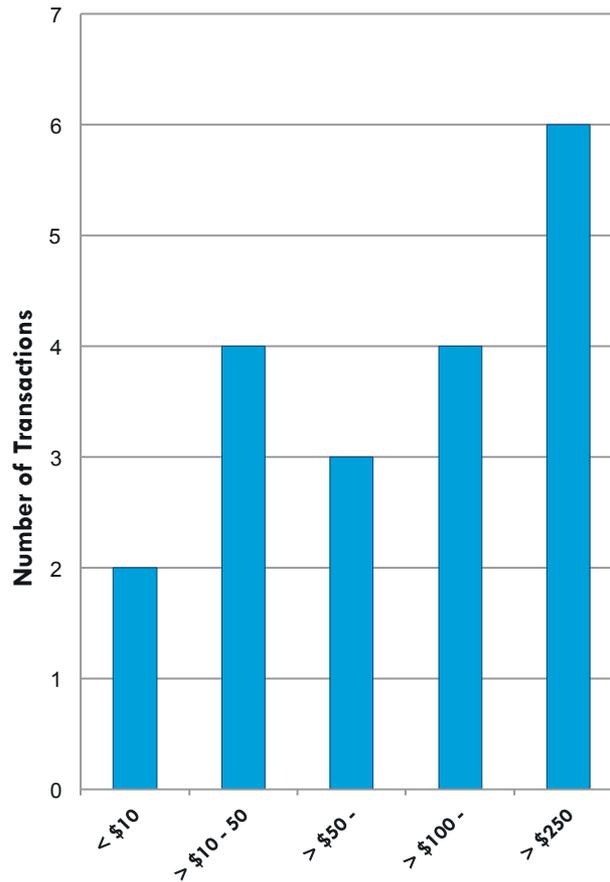
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## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	Target	Acquirer	Transaction Size	% Bought
3/24/16	Magellan Diagnostics, Inc.	Meridian Bioscience, Inc.	\$66.0	100%
2/3/16	TriVascular Technologies, Inc.	Endologix, Inc.	\$173.1	100%
1/29/16	Inova Labs, Inc.	ResMed Inc.	\$110.0	100%
1/25/16	Cardiac Science Corporation	CFS 915 LLC	\$82.7	100%
1/8/16	NorMedix, Inc.	SurModics, Inc.	\$14.0	100%
9/28/15	Lazarus Effect, Inc.	Medtronic plc	\$100.0	100%
9/22/15	DreamCIS, Inc.	Hangzhou Tigermed Consulting Co.	\$28.6	98%
6/18/15	CardioInsight Technologies Inc.	Medtronic plc	\$123.0	100%
3/24/16	Magellan Diagnostics, Inc.	Meridian Bioscience, Inc.	\$66.0	100%
2/3/16	TriVascular Technologies, Inc.	Endologix, Inc.	\$173.1	100%
Median of the 22 M&A Transaction Targets		ResMed Inc.	\$110.0	100%

USA
  International
  Highest
  Lowest
  Median

## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of June 30, 2017



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**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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