

Q4: Quarterly Industry Update

AS OF December 30, 2020



Oncology Pharmaceutical

INDUSTRY SUMMARY

COGENT VALUATION identified **Oncology Pharmaceutical** publicly traded companies, POs, and recent M&A transactions within the Oncology Pharmaceutical 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 30, 2019, the median 52-week share price return of the Oncology Pharmaceutical industry was 23.1%. Between December 30, 2019 and December 30, 2020, the median EV/EBITDA multiple decreased from 15.1 to 11.8. Furthermore, the median price-to-earnings multiple decreased from 17.2 to 16.4 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 10.3% and -31.2%, respectively.

Public Company Key Statistics

Median 52-Week
Return

23.1%

Median 3-Year CAGR
Return

-2.4%

Median EV/Revenue
Multiple

7.4x

Median EV/EBITDA
Multiple

11.8x

Median Price/Earnings
Multiple

16.4x

Median EV/Gross CF
Multiple

14.7x

Comparable Public Company Market Price Returns as of December 30, 2020

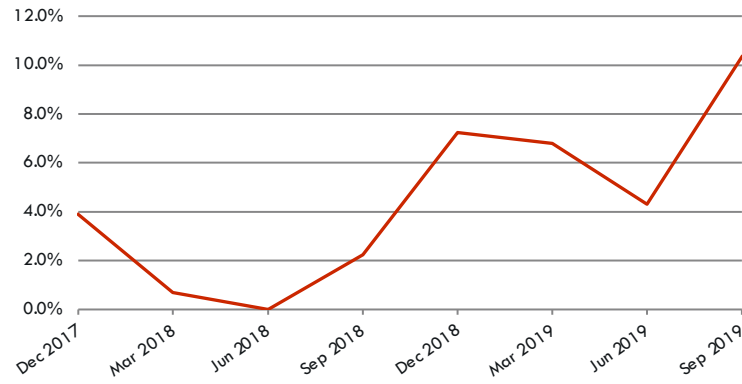
	2020	3 Month	1 Year	2 Year	3 Year	2019	2018	2017
Affimed N.V.	42.3%	42.3%	-17.3%	-61.0%	-27.8%	-74.7%	14.8%	N/A
Bellicum Pharmaceuticals, Inc.	-22.0%	-22.0%	-9.9%	-25.9%	-38.3%	-32.8%	-12.0%	N/A
Calithera Biosciences, Inc.	-24.6%	-24.6%	300.3%	44.2%	156.9%	-57.6%	-62.1%	N/A
Globelimmune, Inc.	65.5%	65.5%	-73.7%	-55.8%	19.8%	-92.5%	-49.0%	N/A
Incyte Corporation	-12.0%	-12.0%	57.4%	9.9%	-5.5%	-7.5%	48.3%	44.4%
Loxo Oncology, Inc.	37.1%	37.1%	107.3%	30.4%	162.1%	12.9%	6.8%	N/A
Luye Pharma Group Ltd.	21.2%	21.2%	245.9%	110.9%	33.1%	-43.1%	142.1%	N/A
Merrimack Pharmaceuticals, Inc.	-21.5%	-21.5%	-10.5%	-28.4%	-74.9%	-48.4%	-19.1%	N/A
Nektar Therapeutics	77.9%	77.9%	-77.0%	-68.3%	386.7%	-27.2%	-30.1%	112.0%
Seattle Genetics, Inc.	-2.2%	-2.2%	37.4%	25.0%	1.4%	17.6%	8.7%	36.6%
Vertex Pharmaceuticals Incorporated	-15.1%	8.8%	28.0%	3.4%	327.8%	-26.5%	39.7%	-19.5%
Median of Industry Public Companies	8.8%	3.3%	13.4%	3.4%	103.4%	-41.5%	5.9%	48.2%

Multiple year periods are calculated as the average annual return.

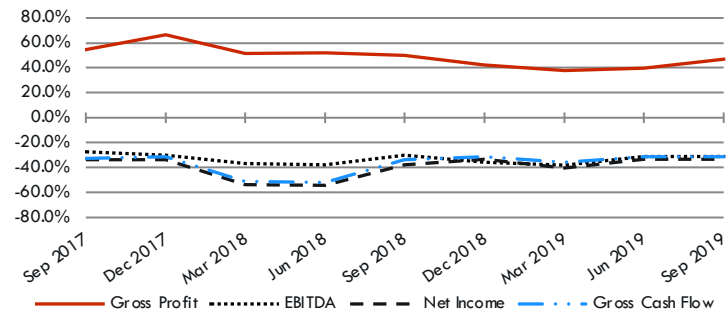
■ Highest Return
 ■ Lowest Return
 ■ Median Return

Industry Revenue Growth and Profit Margins for the Past Two Years

Median Quarterly Revenue Growth of All Oncology Pharma Companies




Median Gross Profit, EBITDA, Net Income, and Gross Cash Flow Margins




Public Company Median Multiples by Quarter

	12/31/20	9/30/20	6/30/20	3/31/19	12/31/19	9/30/19	6/30/19	3/31/19
EV/Revenues Multiple	7.4x	5.5x	8.2x	10.2x	7.6x	7.7x	7.1x	4.5x
EV/EBITDA Multiple	11.8x	12.2x	17.1x	8.7x	11.9x	14.0x	9.5x	8.9x
Price/Earnings Multiple	16.4x	14.1x	18.0x	16.9x	13.7x	14.3x	15.7x	15.3x
EV/Gross Cash Flows Multiple	14.7x	13.3x	10.6x	9.1x	7.5x	13.3x	9.0x	8.4x

 Highest Multiple

 Lowest Multiple

 Median Multiple

Industry Initial Public Offerings—Oncology Pharmaceutical

(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
11/23/20	Gritstone Oncology, Inc.	\$15.00	7.0	\$60.0	\$2.2	\$0.7	\$0.0	(\$4.5)	(\$15.1)	(\$15.2)
8/26/20	Sutro Biopharma, Inc.	\$15.00	6.3	\$128.0	\$354.8	\$0.0	\$0.0	(\$42.5)	(\$7.0)	(\$10.2)
12/3/19	Principia Biopharma Inc.	\$17.00	4.1	\$66.2	\$93.0	\$0.0	\$0.0	(\$15.3)	(\$68.5)	(\$37.5)
6/27/19	Forty Seven, Inc.	\$16.00	7.2	\$38.4	\$53.7	\$29.5	N/A	N/A	N/A	N/A
6/26/18	Neon Therapeutics, Inc.	\$16.00	5.5	\$3.0	\$7.2	\$0.0	\$6.4	\$1.1	\$86.4	\$177.9
5/15/18	Polyphor AG	\$37.97	7.5	\$46.4	\$787.6	\$133.8	\$0.0	(\$20.6)	\$86.4	\$176.7
4/18/18	Surface Oncology, Inc.	\$15.00	8.8	\$50.8	\$786.5	\$9.1	\$15.1	(\$11.8)	\$87.5	\$175.2
Median IPO		nm	nm	\$50.8	\$584.9	\$71.3	\$0.0	(\$13.5)	\$39.7	\$82.5

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

Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/Revenues
10/28/20	Tusk Therapeutics Ltd	Roche Holding AG	\$761.0	100%	N/A	N/A
5/31/20	Oncology Business of Shire	LES LABORATOIRES SERVIER	\$2,400.0	100%	\$262.0	0.9x
3/21/20	ARMO BioSciences, Inc.	Eli Lilly and Company	\$1,627.9	100%	N/A	27.6x
11/1/19	Crown Bioscience International	JSR Corporation	\$364.9	100%	\$72.2	N/A
9/4/19	Ablynx NV	Sanofi	\$4,768.7	100%	\$68.6	N/A
4/3/18	MPI Research Inc.	Charles River Laboratories International, Inc.	\$800.0	100%	N/A	N/A
3/9/18	Cascadian Therapeutics, Inc.	Seattle Genetics, Inc.	\$623.1	74%	N/A	N/A
2/13/18	Sucampo Pharmaceuticals	Mallinckrodt Public Limited	\$1,220.6	100%	\$250.5	13.6x
1/31/18	Advanced Accelerator Apps.	Novartis Groupe France	\$3,917.1	100%	\$114.6	3.2x
11/13/17	Laboratorio DOSA S.A.	Grupo Farmaceutico	\$29.9	100%	N/A	N/A
9/1/17	Merck Kommanditgesellschaft	Fresenius Kabi AG	\$778.6	100%	N/A	N/A

■ USA
 ■ International

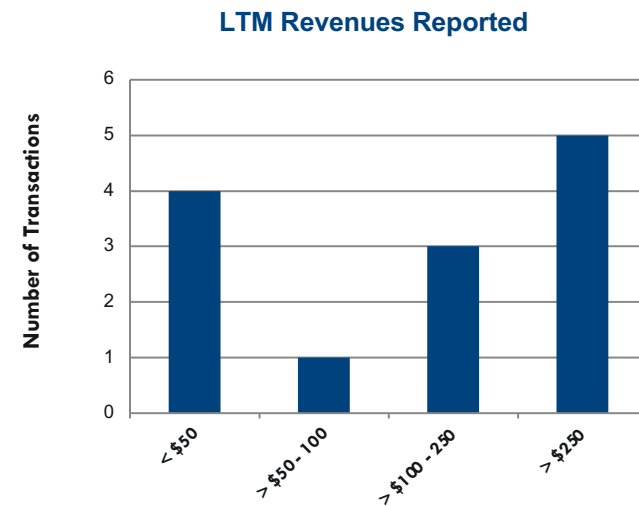
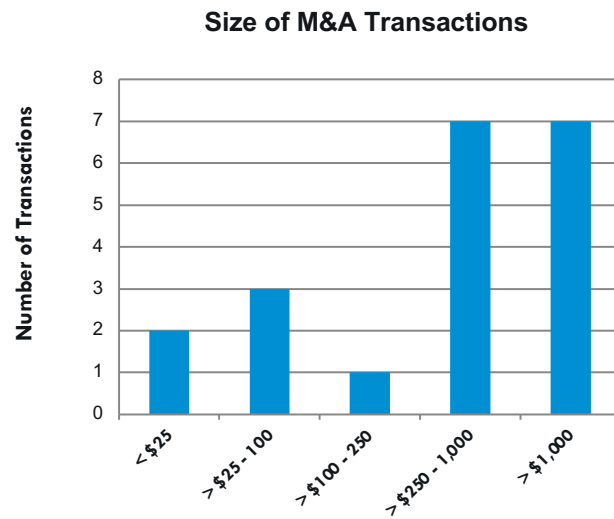
(Continued on next page)

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

(Continued from previous page)

Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/Revenues
9/3/20	Baxalta Incorporated	Shire plc	\$36,219.9	100%	\$6,148	5.7x
12/4/19	DARA BioSciences, Inc.	Midatech Pharma Plc	\$30.7	100%	\$2.4	8.8x
10/7/19	AstraZeneca PLC, Caprelsa	Genzyme Corporation	\$300.0	100%	\$48.0	6.3x
7/23/18	Sigma-Tau Pharma	Baxter International Inc.	\$900.0	100%	\$100.0	9.0x
5/26/18	Pharmacyclics, Inc.	AbbVie Inc.	\$21,053.4	100%	\$816.1	24.7x
3/20/17	EUSA Pharma, Inc.	Essex Woodlands Health	\$34.0	100%	\$27.0	1.3x
2/28/17	Paladin Labs Inc.	Endo International plc	\$1,777.9	100%	\$263.0	5.8x
12/4/16	Agila Specialties Private	Mylan, Inc.	\$1,850.0	100%	\$255.0	7.3x
6/3/16	Baxalta Incorporated	Shire plc	\$36,219.9	100%	\$186.2	7.3x
Median of the 20 M&A Transaction Targets			\$30.7	100%	\$182.2	5.7x

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.

Disclosures and Limitations: This research report is for informational and discussion purposes only. Information presented herein is not investment advice of any kind to any person and does not constitute a recommendation as to the purchase or sale of any interests or as to any other course of action. General, financial, and statistical information concerning the details of this report and related industry are from sources Cogent Valuation believes to be reliable. Cogent Valuation has accurately reflected such information in this research report; however, Cogent Valuation makes no representation as to the sources' accuracy or completeness and has accepted this information without further verification. Neither all nor any part of the content of this report may be conveyed to the public through advertising, public relations, news, sales, mail, direct transmittal, or other media without the prior written consent of Cogent Valuation. Cogent Valuation's research is as of the date reported herein. Cogent Valuation has no affiliation with any of the companies comprising the industry used as a basis for research in this report, nor does Cogent Valuation hold any investments in the companies listed herein. The content of this report may be used, in part, as a basis for any work that Cogent Valuation performs for you in the future at the sole discretion of Cogent Valuation. THIS REPORT IS NOT TO BE USED OR CONSIDERED UNDER ANY CIRCUMSTANCE BY ANYONE AS INVESTMENT ADVICE.

COGENT VALUATION is a nationally recognized full service business valuation firm that has provided independent valuation and financial advisory opinions in thousands of situations since 1991. These assignments include the valuation of companies and pass-through entities, their securities, and their intangible assets ranging in size from small, closely-held businesses and start-ups, to corporations with market values over a billion dollars, covering almost every industry and all types of transactions. With the collective backgrounds of our managing directors and professional staff, Cogent Valuation brings substantial large deal experience to bear on our middle market transaction opinions. Cogent Valuation utilizes proprietary research, intensive due diligence, and the experience and insights of its professionals to produce thoughtful, well-documented opinions that have consistently withstood the scrutiny of clients and their advisors, investors, regulators, and courts.

This industry research is provided at no charge to Cogent Valuation's clients. Research or detailed information not covered in this report can be obtained for a fee. **Contact Steven Kam at 415-392-0888 or kam@cogentvaluation.com** for additional information or questions in connection with this research report.