

INSTITUTIONAL RESEARCH

BiotechnologyUPDATE REPORT

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Anavex Life Sciences Corp. (NASDAQ/AVXL)

BUY: Anavex2-73 Phase 2 Data at CTAD

Anavex presented "proof of concept" data in Parkinson's Disease Dementia on 2-73 at the conference on Clinical Trials on Alzheimer's Disease (CTAD). The Phase 2 trial demonstrated statistically significant improvements in CDR system Cognitive Domain of Attention assessed by Choice Reaction Time (p = 0.039) and Digital Vigilance (p = 0.008). Statistically significant dose-dependent improvements in Episodic Memory (p = 0.003).

Investment Highlights

The data suggest that ANAVEX2-73 prevented the ongoing cognitive decline in treated patients (vs. placebo). The late-breaking abstract of cognitive outcome measures relevant to Alzheimer's disease found that ANAVEX2-73 was safe and well-tolerated in oral doses up to 50 mg once daily. The results show clinically meaningful, dose-dependent, and statistically significant improvements in the Cognitive Drug Research (CDR) computerized assessment system analysis. The study confirmed the precision medicine approach of targeting SIGMAR1 as a genetic biomarker of response to Anavex2-73.

Parkinson's Disease Dementia or PDD. PDD is when Parkinson's disease eventually leads to dementia. The resulting effect is a degradation of specific neurons in the substantia nigra, related to a dramatic decrease in dopamine production and Lewy bodies. Out of all the Parkinson's patients, 50-80% eventually end up with PDD. Currently, there are no cures for Parkinson's disease, only medication to help manage the symptoms. Most of these drugs work by enabling dopamine production since there are low concentrations of dopamine in people with Parkinson's disease. There are several downsides to these medications, though. First off, their effectiveness dramatically decreases over time with prolonged use of the given drug. Secondly, there are many side effects as a result of administering these treatment options, like nausea, lightheadedness, and hallucinations. ANAVEX2-73 has proved to be safer with better efficacy than the remaining drugs on the market.

Valuation. Our valuation is based on our therapeutic models and associated assumptions projected to 2030. Our model assumes multiple financial raises, and as such, our share count is based on a projected, fully diluted out-year basis. Given the early nature of the company and its dependence on clinical trial outcomes in the CNS space, we apply just a 25% probability of success in our models. On top of this, we also add a 30% risk rate in our free cash flow to the Firm (FCFF), our discounted EPS (dEPS), and sum-of-the-parts (SOP) models. We equal weight and average these metrics and then round to the nearest whole number to derive our price target.

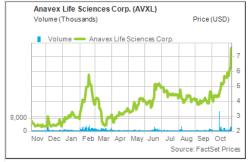
Risk to our thesis, include the following: (1) commercial; (2) regulatory; (3) clinical; (4) manufacturing; (5) financial; (6) liability; and (7) intellectual property. We review these risks in the risk section of this report.

November 6, 2020

Jason Kolbert Healthcare Research jkolbert@dawsonjames.com

Current Price						\$5.00
Price Target						\$16.00
Estimates	F20)19A	F20	020E	F2	021E
Expenses (\$000s)	\$	31,287	\$	31,438	\$	33,048
1Q March	\$	7,474	\$	7,701	\$	8,216
2Q June	\$	8,140	\$	7,774	\$	8,247
3Q September	\$	7,821	\$	7,967	\$	8,277
4Q December	\$	7,852	\$	7,997	\$	8,308
	F20	019A	F20	020E	F2	021E
EPS (diluted)	\$	(0.65)	\$	(0.51)	\$	(0.27)
1Q March	\$	(0.16)	\$	(0.12)	\$	(0.07)
2Q June	\$	(0.17)	\$	(0.12)	\$	(0.07)
3Q September	\$	(0.16)	\$	(0.14)	\$	(0.07)
4Q December	\$	(0.16)	\$	(0.13)	\$	(0.07)
EBITDA/Share						

EV/EBITDA (x)		
Stock Data		
52-Week Range	\$2.20 -	\$6.31
Shares Outstanding (mil.)		58.7
Market Capitalization (mi	l.)	\$332
Enterprise Value (mil.)		\$313
Debt to Capital		0%
Book Value/Share		\$0.56
Price/Book		8.2
Average Three Months Tra	ading Volume (K)	1,494
Insider Ownership		4.0%
Institutional Ownership		20.1%
Short interest (mil.)		11.0%
Dividend / Viold		¢n nn/n n%



• Intra-day price



Study Design. The ANAVEX2-73-PDD-001 study was an international, double-blind, multicenter, placebo-controlled Phase 2 clinical study and randomized 132 patients with PDD equally to target doses of 30mg, 50mg ANAVEX2-73 or placebo. In addition to safety and cognitive efficacy, sleep function was assessed during the study at week 8 and week 14. ANAVEX2-73-PDD-001 study results are to be submitted for presentation at a medical conference and for publication in a peer-reviewed medical journal. Anavex is planning a pivotal trial of ANAVEX2-73 in Parkinson's Disease Dementia after submitting the results of the study to the FDA to obtain regulatory guidance.

Parkinson's Disease Dementia (PDD). The 14 week PDD clinical study is a Phase 2 trial. The trial enrolled N=132 patients, who are 50 years of age or older, have a MoCA score of 13-23, have a diagnosis of idiopathic Parkinson's disease, and a diagnosis of probable PDD. Like the Alzheimer's study, the PDD population will be divided into three groups, a high dose ANAVEX2-73 group, a medium dose ANAVEX2-73 group, and a control placebo group. The primary endpoint is safety, tolerability, and CDR-continuity of attention. The prespecified endpoints are the genetic variants SIGMAR1 (rs1800866), and COMT (rs113895332/rs61143203) with influence on the treatment effect.

Exhibit 1. ANAVEX2-73 Study Design for PDD

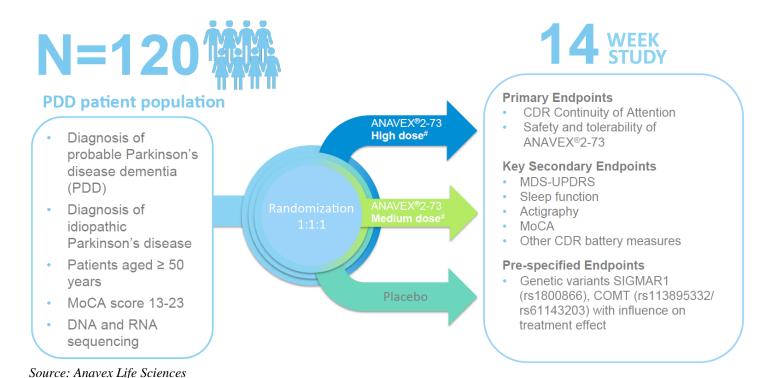
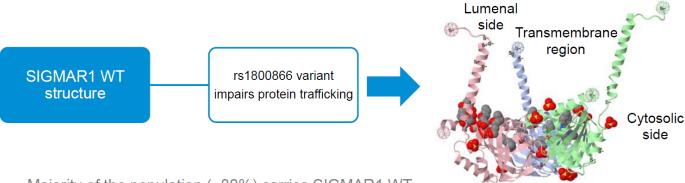




Exhibit 2. SIGMAR1 Gene Plays a Role in Protein Trafficking



- Majority of the population (~80%) carries SIGMAR1 WT
- Majority of patients (~80%) are expected to benefit from SIGMAR1 activation with ANAVEX®2-73
- rs1800866 variant found in the remaining (~20%) of the population can cause structural change, leading to impaired protein trafficking

Source: Anavex Life Sciences and Laurini E., 3D Homology Model of Sigma 1 Receptor.

Delta ADCS-ADL Delta MMSE (Week 57 from Baseline) (Week 57 from Baseline) p=0.02310 p=0.0486 6 2 4 -2 2 -6 0 -10 -2 -14 -4 -18 -6 -22 -8 -26 -10

SIGMAR1

Pro2 variant

(rs1800866) (n=5)

Exhibit 3. SIGMAR1 WT Gene Associated with Improved Response

Source: Anavex Life Sciences and H Hampel et al., AAIC 2018

SIGMAR1 Pro2 variant

(rs1800866)

(n=5)

SIGMAR1 WT

(n=15)

SIGMAR1 WT

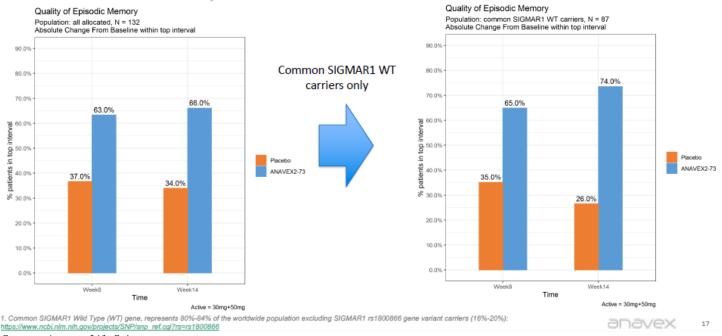
(n=15)



Exhibit 4. Positive Impact of Pre-specified Common SIGMAR1 WT Carriers

Positive Impact of Pre-specified Common SIGMAR1 WT Carriers

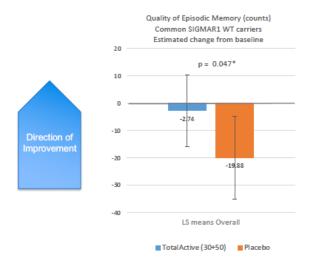
ANAVEX®2-73-PDD-001 Study: Improvements of Quality of Episodic Memory with Pre-specified Common SIGMAR1 WT Carriers¹



Source: Anavex Life Sciences

Exhibit 5. Improvements in Core Cognitive Functions

ANAVEX®2-73-PDD-001 Study: Change in (CDR) System Quality of Episodic Memory Prevention of on-going decline observed in placebo group



Effects of ANAVEX®2-73 (blarcamesine) treatment. Scores are least square means from the analysis of mixed-effect models for repeated measures of the change from baseline scores over 14 weeks, with Multiple Imputation (MCAR) by Visit and Treatment Group. Error bars are 95% confidence intervals. * P-value < 0.05 statistically significant

anavex

Source: Anavex Life Sciences



Exhibit 6. Choice Reaction Time Increases with Complex Tasks

Choice Reaction Time Increases with Complex Tasks

Affected in Alzheimer's and Parkinson's Diseases

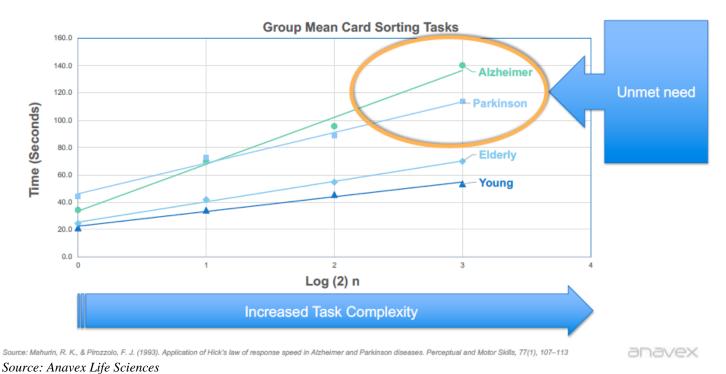


Exhibit 7. Improvement in Core Cognitive Functions

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Improvements in Core Cognitive Functions

ANAVEX®2-73-PDD-001 Study: Change in (CDR) System Individual Task Measures
Choice Reaction Time and Digit Vigilance Reaction Time
Prevention of on-going decline observed in placebo group



Effects of ANAVEX®2-73 (blarcamesine) treatment. Scores are least square means from the analysis of mixed-effect models for repeated measures of the change from baseline scores over 14 weeks, with Multiple Imputation (MCAR) by Visit and Treatment Group. Error bars are 95% confidence intervals. * P-value < 0.05 statistically significant; ** P-value < 0.01 statistically significant

anavex

Source: Anavex Life Sciences



Valuation. Our valuation is based on our therapeutic models and associated assumptions projected to 2030. Our model assumes multiple financial raises, and as such, our share count is based on a projected, fully diluted out-year basis. Given the early nature of the company and its dependence on clinical trial outcomes in the CNS space, we apply just a 25% probability of success in our product models. On top of this, we also add a 30% risk rate in our free cash flow to the Firm (FCFF), our discounted EPS (dEPS) and sum-of-the-parts (SOP) models. We equal weight and average these metrics and then round to the nearest whole number to derive our price target.

Exhibit 8. FCFF Model



DCF Valuation Using FCF (mln):													
units ('000)	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
EBIT	(17,381)	(26,213)	(32,160)	(26,436)	(32,391)	90,940	915,400	1,344,698	1,458,838	1,674,005	1,546,506	1,781,979	1,974,281
Tax Rate	0%	0%	0%	0%	5%	10%	18%	18%	30%	31%	31%	39%	39%
EBIT(1-t)	(17,381)	(26,131)	(32,160)	(26,436)	(30,772)	81,846	750,628	1,102,652	1,021,186	1,155,063	1,067,089	1,087,007	1,204,311
CapEx	-	-	-	-	-								
Depreciation	-	-	-	-	-								
Change in NWC (ex cash)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FCF	(17,381)	(26,131)	(32,160)	(26,436)	(30,772)	81,846	750,628	1,102,652	1,021,186	1,155,063	1,067,089	1,087,007	1,204,311
PV of FCF	(29,373)	(33,970)	(32,160)	(20,336)	(18,208)	37,253	262,816	296,976	211,566	184,078	130,814	102,504	87,359
Discount Rate	30%												
Long Term Growth Rate	1%												
Long Term Growth Rate	176												
Terminal Cash Flow	4,194,325.49												
Terminal Value YE2030	304,249												
Terrimar value 122030	304,243												
NPV	1,546,911												
NPV-Debt													
Projected Shares out (thousands)	87,320	2030E											
NPV Per Share	\$ 17.72												
	*=												

Source: Dawson James estimates

Exhibit 9. Discounted EPS Model

Current Year Year of EPS	2020 2030
Earnings Multiple	15
Discount Factor	30%
Selected Year EPS	\$ 13.79
NPV	\$ 15.00

		Discount Rate and Earnings Multiple Varies, Year is Constant 2030 EPS										
	15.00	5%	10%	15%	20%	25%	30					
Earnings												
Multiple	1	\$8.46	\$5.32	\$3.41	\$2.23	\$1.48	\$1.00					
	5	\$42.32	\$26.58	\$17.04	\$11.13	\$7.40	\$5.00					
	10	\$84.65	\$53.16	\$34.08	\$22.27	\$14.80	\$10.00					
	15	\$126.97	\$79.74	\$51.12	\$33.40	\$22.21	\$15.00					
	20	\$169.29	\$106.32	\$68.16	\$44.54	\$29.61	\$20.00					
	25	\$211.62	\$132.90	\$85.20	\$55.67	\$37.01	\$25.00					
	30	\$253.94	\$159.48	\$102.25	\$66.81	\$44.41	\$30.0					
	35	\$296.26	\$186.06	\$119.29	\$77.94	\$51.82	\$35.0					

Source: Dawson James estimates

Exhibit 10. Sum of the Parts Model

Anavex Sum of the Parts	LT Gr	Discount Rate	Yrs. to Mkt	% Success	Peak Sales MM's	Term Val
AVXL 2-73 U.S. AD	1%	30%	5	50%	\$2,697	\$9,298.91
NPV						\$3.59
AVXL 2-73 ROW AD	1%	30%	5	50%	\$3,214	\$11,081.54
NPV					ľ	\$4.27
AVXL 2-73 Rett's Syndrome	1%	30%	3	50%	\$1,905	\$6,568.76
NPV						\$4.28
AVXL 2-73 PDD	1%	30%	3	50%	\$961	\$3,315.39
NPV						\$2.16
Net Margin						25%
MM Shrs OS (2030E)						87
Total						\$14.3

Source: Dawson James estimates



Exhibit 11. Income Statement

Anavex Life Sciences Corp	шеш															
Anavex: YE Sept 30	2019A	1Q20A	2Q20A	3Q20E	4Q20E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
Revenue																
Anavex2-73 AD U.S.		-	-	-	-	-	-	-		191,826	338,892	498,171	666,126	533,641	622,073	674,171
																İ
Anavex2-73 AD ROW							-	-		555,169	735,599	617,903	642,619	551,582	675,136	803,412
																İ
Anavex2-73 Rett's Syndrome							6,642	67,744	207,296	317,162	395,395	439,967	448,767	457,742	466,897	476,235
Assessed 70 Poddies and Dissessife DDD										44.000	50.055	22.224	400.004	404.000	040040	0.40.000
Anavex2-73 Parkinson's Dimentia PDD									-	14,229	58,055	88,824	120,801	184,826	219,943	240,366
Total Product Revenues	-	_	_	-	-	-	6,642	67,744	207,296	1,078,386	1,527,942	1,644,866	1,878,313	1,727,790	1,984,048	2,194,184
% Chg																İ
% Clig																İ
																İ
% Sequential Growth																İ
Milestones																i
% Sequential Growth																İ
Total Revenues (\$000)							6,642	67,744	207,296	1,078,386	1,527,942	1,644,866	1,878,313	1,727,790	1,984,048	2,194,184
Expenses																1
Cost of Goods Sold (10%)		-	-	-	-	-	-	-	-	74,699	107,449	111,607	130,875	108,522	129,721	147,758
Accounting and Audit Fees																i
Amortization and deprectiation	2	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2
Bank charges and interest																İ
Consulting Fees																i
Insurance Investor relations																i
Legal fees																İ
Management fees																İ
Office and miscellanous expense																İ
Registration and filing fees																i
Rent and administration																İ
Research and Development	22,260	6,349	6,053	6,083	6,114	24,599	24,762	20,108	16,329	13,260	10,768	8,744	7,101	5,766	4,683	3,803
Salaries and wages																i
Travel																İ
Website design and maintence																i
General and Administrative	6,847 31,287	1,352	1,720	1,883 7,967	1,883 7,997	7,531 31,438	8,284 33,048	80,000 100,110	100,000 116,331	75,000 162,961	65,000 183,219	65,650 186,003	66,307 204,283	66,970	67,639 202,044	68,316
Operating expenses Oper. Inc. (Loss)	(31,287)	7,701 (7,701)	7,774 (7,774)	(7,967)	(7,997)	(31,438)	(26,406)	(32,366)	90,965	915,425	1,344,723	1,458,863	1,674,030	181,260 1,546,531	1,782,004	219,878 1,974,306
Oper Margin	NM	NM	NM	NM	NM	NM	NM	NM	0	1	1,011,720	1,100,000	1,07 1,000	1,010,001	1,7 02,001	1,07 1,000
Other income (expense)	2,466															i
Research and Development incentive	299	47	717													
Interest and financing fees Accretion of debt discount	207 116					(28)	(30)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)
Change in fair value of derivative liability	(151)															İ
Debt conversion expense	(42)															i
Loss on settlement of accounts payable																i
Loss on extinguishment of debt			(l								ı
Foreign exchange gain (loss) Financing related charges and adjustments		53	(326)					l								ı
Other non-operating income		1,018	145					l								ı
Non-operating Income (expense)	2,894	1,118	536	-	-	(28)	(30)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)
Financial Income, Net								l								1
Financial Expenses, Net	(28.393)	(6.583)	(7.237)	(7.967)	(7.997)	(31,466)	(26.436)	(00.004)	90.940	915.400	1.344.698	1.458.838	1.674.005	1.546.506	1.781.979	4.074.004
Pretax Income Pretax Margin	(28,393) NM	(6,583) NM	(7,237) NM	(7,967) NM	(7,997) NM	(31,466) NM	(26,436) NM	(32,391) NM	90,940 NM	915,400 NM	1,344,698 NM	1,458,838 NM	1,674,005 NM	1,546,506 NM	1,781,979 NM	1,974,281 NM
Income Tax Benefit (Provision)	(82)						(9,781)	(1,620)	9,094	164,772	389,962	481,416	602,642	603,137	694,972	769,970
Tax Rate	0	(9)	0	0	0	-		5%	10%	18%	29%	30%	31%	31%	31%	31%
GAAP Net Income (loss)	(28,475)	(6,592)	(7,237)	(7,967)	(7,997)	(31,466)	(16,655)	(30,772)	81,846	750,628	954,736	977,421	1,071,363	943,368	1,087,007	1,204,311
Net Margin	NM	NM	NM	NM	NM	NM	NM	NM	0.39	0.70	0.62	0.59	0.57	0.55	0.55	0.55
GAAP-EPS Non GAAP EPS (dil)	(0.58) (0.58)	(0.12) (0.12)	(0.12) (0.12)	(0.14) (0.14)	(0.13) (0.13)	(0.51) (0.51)	(0.27) (0.27)	(0.48) (0.48)	1.24 1.24	10.91 10.91	13.34 13.34	13.13 13.13	13.82 13.82	11.70 11.70	12.95 12.95	13.79 13.79
Wgtd Avg Shrs (Bas)	48,906	(0.12) 54.774	(0.12) 58,354	(0.14) 58,412	58,471	57,503	58,617	58,852	59,088	59,324	59,562	59,801	60,040	60,281	60,522	60,765
Wgtd Avg Shrs (Dil)	48,906	54,774	58,354	58,937	59,527	57,898	61,030	63,508	66,087	68,770	71,562	74,468	77,492	80,638	83,913	87,320
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Source: Dawson James estimates, company reports



Risk Analysis

Clinical Trial Risk. Anavex is dependent on the outcome of multiple clinical trials. The failure rates associated with disease conditions such as Alzheimer's is historically very high.

Commercial Risk. Anavex hopes to compete in the CNS markets which have traditionally been dominated by large pharma and biotechnology companies with deep pockets (funding and resources), which may make it difficult for Anavex to compete unless the molecule is deemed to be truly differentiated.

Financial Risk. Anavex is likely to require additional capital raises before the company can be self-sustaining. There can be no guarantees that the company will be able to raise the needed capital.

Investment Risk. Anavex is a small capital company, which can translate into high volatility and risk for investors. The company has no revenues and is dependent on the clinical progress of its therapeutics.

Intellectual Property. Anavex may face IP challenges, forcing the company to defend its patents or itself against claims that the company is infringing on other patents. We do know that the lead product is protected by a composition of matter patent to 2033.

Market Share Risk. The central nervous system (CNS) market is competitive and tends to be dominated by large pharma and large well established biotechnology companies.

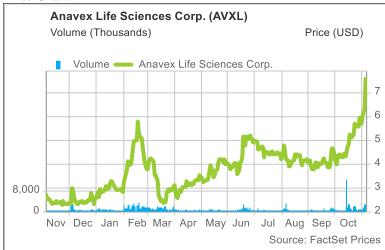
Regulatory Risk. Anavex, even with good clinical data, could face extensive delays and other regulatory setbacks.



Companies mentioned in this report

Important Disclosures:

Price Chart:



Price target and rating changes over the past three years:

Initiated – Buy – July 24, 2019 – Price Target \$16.00

Update - Buy - July 31, 2019 - Price Target \$16.00

Update - Buy - August 7, 2019 - Price Target \$16.00

Update – Buy – September 5, 2019 – Price Target \$16.00

Update – Buy – September 17, 2019 – Price Target \$16.00

Update - Buy - October 24, 2019 - Price Target \$16.00

Update – Buy – December 2, 2019 – Price Target \$16.00 Update – Buy – December 4, 2019 – Price Target \$16.00

Update - Buy - February 4, 2020 - Price Target \$16.00

Update - Buy - February 7, 2020 - Price Target \$16.00

Update - Buy - May 8, 2020 - Price Target \$16.00

Update - Buy - May 22, 2020 - Price Target \$16.00

Update - Buy - June 16, 2020 - Price Target \$16.00

Update - Buy - July 1, 2020 - Price Target \$16.00

Update – Buy – October 15, 2020 – Price Target \$16.00

Update – Buy – November 6, 2020 – Price Target \$16.00

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Information about valuation methods and risks can be found in the "VALUATION" and "RISK ANALYSIS" sections of this report.

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Rating Definitions:

- 1) **Buy**: The analyst believes the price of the stock will appreciate and produce a total return of at least 20% over the next 12-18 months;
- 2) **Neutral**: The analyst believes the price of the stock is fairly valued for the next 12-18 months;
- 3) **Sell**: The analyst believes the price of the stock will decline by at least 20% over the next 12-18 months and should be sold.

The following chart reflects the range of current research report ratings for all companies followed by the analysts of the Firm. The chart also reflects the research report ratings relating to those companies for which the Firm has performed investment banking services.

	Company Co	verage	Investment	Banking
Ratings Distribution	# of Companies	% of Total	# of Companies	% of Totals
Market Outperform (Buy)	22	81%	4	18%
Market Perform (Neutral)	5	19%	1	20%
Market Underperform (Sell)	0	0%	0	0%
Total	27	100%	5	19%

Analyst Certification:

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