

INSTITUTIONAL RESEARCH

Biotechnology

Update Report

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Athersys Inc. (NASDAQ/ATHX)

May 1, 2020

MACOVIA – Multistem Administration for COVID-19 Induced Acute Respiratory Distress Syndrome Begins

The Athersys Phase 2/3 ARDS trial is now set to begin. On April 13, 2020, Athersys announced authorization from the FDA to begin the MACOVIA study and began the process of clinical site initiation. UH Cleveland has completed trial start-up activities enabling commencement of patient screening and enrollment in this important randomized, double-blind, placebo-controlled study.

Highlights

Athersys announced that UH Cleveland has completed trial start-up activities enabling commencement of patient screening and enrollment in this important randomized, double-blind, placebo-controlled study. This news follows the recent FDA authorization for Athersys to initiate a Phase 2/3 pivotal study to assess the safety and efficacy of MultiStem therapy in subjects with moderate to severe acute respiratory distress syndrome (ARDS) induced by the novel coronavirus disease (COVID-19). This program falls under the current Investigational New Drug (IND) application for the Company's completed MUST-ARDS study and, therefore, a new IND does not need to be filed. We believe Athersys' Multistem offers great hope for patients suffering from Acute Respiratory Distress Syndrome (ARDS). ARDS occurs when fluid builds up in the tiny, elastic air sacs (alveoli) in your lungs. Severe pneumonia and the new Coronavirus, too, can result in an infection in the lobes of the lungs, triggering an inflammatory cascade that causes death. Data on Athersys Multistem suggest efficacy in treating ARDS independent of the pathogen (or insult) that is the cause".

Athersys raises Capital. A recent public offering transpired consisting of 25.5M shares of common stock at a price to the public of \$2.25 per share, which includes 3,337,500 shares of Common Stock pursuant to the underwriters' option to purchase additional shares, which the underwriters exercised (April 16, 2020). Gross proceeds to Athersys from the offering are approximately \$57.6 million, before deducting the underwriting discount and estimated offering expenses. Our model previously assumed dilution, and as such, this raise has no impact on our valuation metrics.

Valuation. Our therapeutic models for MultiStem assume a probability of success (PoS) factor across the various indications. In addition to this, we also apply a 30% risk rate (r) in our Free Cash Flow to the Firm (FCFF), discounted EPS, and Some-Of-The-Parts (SOP) models. Our price target is derived from these three models, equally weighting and averaged to the nearest whole number. The result is a one-year price target of \$12.00 per share. We caution ourselves that models can't predict clinical trial outcomes, but we do suggest that upon success, the company is undervalued.

Risks to our thesis include the following: (1) clinical trial; (2) commercial; (3) employee; (4) financial; (5) intellectual property; (6) partnership; and (7) regulatory. We review these and other risks in the risk section of this report.

COVID ARDS Trial Design: The trial is planned as a multicenter study featuring an open-label lead-in followed by a double-blinded, randomized, placebo-controlled Phase

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Current Price	\$2.30
Price Target	\$12.00

Estimates	F20	019E	F20	020E	F2	021E
Expenses (\$000s)	\$	51,121	\$	53,500	\$	46,615
1Q March	\$	14,705	\$	12,305	\$	10,721
2Q June	\$	14,163	\$	12,840	\$	11,188
3Q September	\$	11,981	\$	13,375	\$	11,654
4Q December	\$	10,272	\$	14,980	\$	13,052
	F20)19E	F20	020E	F2	021E
EPS (diluted)	\$	(0.29)	\$	(0.30)	\$	(0.23)
1Q March	\$	(0.09)	\$	(0.08)	\$	(0.06)
2Q June	\$	(0.06)	\$	(0.08)	\$	(0.06)
3Q September	\$	(0.08)	\$	(0.07)	\$	(0.06)
4Q December	\$	(0.06)	\$	(0.08)	\$	(0.06)
EBITDA/Share		(\$0.29)		(\$0.30)		(\$0.24)
EV/EBITDA (x)		1,387		1,337		1,734
Stock Data						
52-Week Range		\$1.13		-		\$4.38
Shares Outstanding (mil.)						196.5
Market Capitalization (mil	l.)					\$452
Enterprise Value (mil.)						\$408
Debt to Capital						0%
Book Value/Share						\$0.19
Price/Book						8.4
Average Three Months Tra	adin	g Volum	ne (K)		367
Insider Ownership						11.6%
Institutional Ownership						19.4%
Short interest (mil.)						8.4%
Dividend / Yield					0.0	00/0.0%
Athersys, Inc. (ATH)	()					





2/3 portion. The primary objectives of the MACOVIA study is to evaluate the safety and efficacy of MultiStem therapy as a treatment for subjects with moderate to severe ARDS due to COVID-19.

- The primary efficacy endpoint will be number of ventilator-free days through day 28 as compared to placebo, a well-established endpoint for ARDS trials that evaluates an intervention's combined impact on survival and liberation from invasive mechanical ventilation.
- The secondary objectives of this study are to evaluate pulmonary function, all-cause mortality, tolerability and quality of life (QoL) among survivors associated with MultiStem therapy as a treatment for subjects with moderate to severe ARDS due to COVID-19. The study is designed to enroll approximately 400 subjects and will be conducted at leading pulmonary critical care centers throughout the U.S. The first cohort of the study will be open-label, with a single active treatment arm to evaluate the safety of the MultiStem product candidate at two dose levels. The second cohort will be a double-blind, randomized, placebo-controlled run-in phase to evaluate the efficacy of MultiStem. The design of the third planned cohort will be based on analysis of the results of the second cohort. The intent-to-treat population will include all randomized subjects (i.e., subjects from the second and third cohorts).

We Review Multistem's Prior Program in ARDS. A few key observations, in our opinion, make this relevant today given the Coronavirus outbreak in China and the world.

- 1. The data released last month is impressive for a small study and suggests that Multistem has efficacy in ARDS.
- 2. Multistem works independent of the cause, albeit pneumonia or the coronavirus. As such, it has the potential to be an ideal, first-line defense for patients in respiratory distress.
- 3. ARDs has a high mortality rate. The treatment protocols are very complex, and one look at the numbers in China tells us the potential to overwhelm the system, any system be it the U.S. or China, is a great risk.
- 4. ARDS is likely the factor that tips most pneumonia (& likely Coronavirus) patients to a high risk, high mortality outcome.
- 5. A universal treatment that can limit ARDS could be a life-saver. All indications suggest that Athersys partner Healios is keenly interested. The Japanese media and government are focused on the coronavirus. It is the number one news story in Japan and has been for weeks.
- **6.** Early data not only suggest better outcomes at 28 days, but one-year follow-up also suggests that treated patients are more likely to reestablish the same quality of life versus control patients prior to ARDS.

Quality-of-Life (QOL) Out to a Year. Recall that Athersys announced follow-up results from the prior ARDS study of IV (intravenous) MultiStem. These participants were evaluated through 28 days for the primary clinical assessment and again at a one-year follow-up. Of note, the most severe patients seemed to do the best (20% mortality versus 50% on control).

Key Data Points from the Athersys ARDS study:

- Previously observed lower mortality for MultiStem-treated subjects compared to placebo (particularly among the prospectively defined subset of more severe ARDS patients) persisted out to one-year of follow-up;
- Day-365 Quality of Life (QoL) outcomes, assessed by the EQ-5D, were meaningfully better among all survivors who received MultiStem treatment compared to those who received placebo;
- Within the prospectively defined group of patients with more severe ARDS, MultiStem treatment was associated with a markedly greater rate of survival and progression to functional independence at one year (i.e., self-care);
- As measured at day-28, MultiStem treatment was associated with a higher mean ventilator-free day (VFD) score of 12.9 vs. 9.2 in the placebo group, and a higher mean intensive care unit (ICU)-free day score of 10.3 vs. 8.1 in the placebo group;
- As measured at day-28, among more severe ARDS patients, mean VFD in the MultiStem subgroup was 14.6 vs. 8.0 in placebo subgroup. Mean ICU-free days were 11.4 vs. 5.9 for MultiStem and placebo recipients, respectively;
- Lower inflammatory cytokine levels at day-7 in the MultiStem group relative to the placebo group, including IFNg, IL-6, and IL-1b among others, suggest the potential for MultiStem treatment to abate the severe inflammatory response associated with ARDS; and
- MultiStem treatment was well tolerated in this very sick ARDS patient population, with no serious adverse events related to administration through one year of follow-up.

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Exhibit 1. The Phase 2 ARDS Trial was a randomized, double-blind, placebo-controlled trial evaluating patients through 28-day clinical assessment with one year follow up.

All Subjects	MultiStem	Placebo
Number	20	10
Ventilator-free days (mean)	12.9	9.2
(median)	18.5	6.5
ICU-free days (mean)	10.3	8.1
(median)	12.5	4.5
Mortality (d28)	25%	40%
Patients w/ Low pulmonary function: PaO ₂ /FiO ₂ < 150 mm at baseline	MultiStem	Placebo
Number	0	_
	8	8
Ventilator-free days (mean)	14.6	8.0
Ventilator-free days (mean) (median)		_
, , ,	14.6	8.0
(median)	14.6 18.5	8.0 3.5

Source: Athersys

Exhibit 2. The Post-hoc analysis of Pneumonia-Induced ARDS, Severe cases –PaO2/FiO2Ratios at Day 0, Pre-infusion < 150. Data for severe cases of pneumonia-induced ARDS shows an even greater difference in mortality rate, Vent-free, and ICU-free days between the subjects treated with MultiStem and the patients in the placebo-controlled group.

	MultiStem	Placebo
Day-28 Mortality	20%	50%
Ventilator-free days (mean)	14.8	7.5
Ventilator-free days (median)	18.0	3.5
ICU-free days (mean)	12.0	5.0
ICU-free days (median)	15.0	1.0

Source: Athersys

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Modeling Assumptions

- 1. The MultiStem program is the main platform for the company, and we view it as the driver of the company's success. We assume Athersys continues developing the MultiStem program in neurological, cardiovascular, and inflammation and immunological disease areas and that these programs, like the MultiStem platform itself, are prioritized.
- 2. For the stroke (neurological) indication, we model approximately 800,000 stroke patients in the U.S. and 340,000 in Japan, with 87% of those classified as ischemic, growing at a rate of 0.1% annually since 2017. By factoring in mortality risk, cortical stroke prevalence, and the effective therapeutic treatment window, we arrive at an addressable market population.
- 3. Hemorrhagic stroke. Success in ischemic stroke sets the stage for Athersys to develop MultiStem in the small side of the stroke market, Hemorrhagic strokes. Here too, the inflammatory response contributes to additional secondary damage. While the complexities of ischemic stroke are challenging, hemorrhagic can be even more complex, and with even fewer options for patients. As such, it makes sense to develop for this indication only after the ischemic market is realized.
- 4. For the ADRS (immune) indication, we model the addressable population based on the NHLI estimate figure of 70 per 100,000 in the U.S., denoting an approximate 230,000 patients in 2017 growing at 3.1% annually.
- 5. For the AMI (cardiovascular) indication, we only model for new heart attacks as we believe they are more likely to be amenable to the trophic and anti-inflammatory effects of MultiStem. We anticipate the annual growth rate and mortality rate quoted by the American Heart Association continue to be high, at 11.1% and 15.5%, respectively, a reflection of the increasing obesity epidemic in the U.S. Considering the lengthy nature of cardiovascular trials, we do not begin to model sales until 2022, and we currently anticipate relatively low (8-10%) peak market penetration as cell therapy is not currently a standard of care in hospitals for treating AMI.
- 6. For the trauma (inflammatory) indication, we model the treatable population based on a reported 2.5 million trauma-related emergency room visits. Approximately 13% of those visits are due to debilitating ailments, leading to hospitalization. The estimation brings us to over 300,000 addressable patients growing at a rate of 3.1% annually.
- 7. For the GVHD (inflammatory) indication, we do currently assume any revenues in our model, but we show the model as we believe, with additional resources, Athersys may "down the road" re-visit development plans. The population of total U.S. allogeneic stem cell transplants based on 4,265 related and 4,972 unrelated transplants (2017 data) growing at a rate of 3.1% annually. We estimate 90% of that population to desire prophylactic treatment for GVHD.
- 8. We model a price for MultiStem at \$25,000 initially, growing at 1% per year. Academic literature estimates that therapies such as tPA in stroke should be priced at \$45,800 based on the quality-adjusted life years (QALY) provided to patients. In this instance, should a therapy allow for successful treatment beyond the three to six-hour therapeutic time window, the literature estimates this therapy should command a higher price. We, therefore, believe our pricing estimates are conservative, considering our belief in the upside therapeutic potential of MultiStem. We have seen examples of other cell (for example, CAR-T) and gene therapies' command prices anywhere between \$100k and \$2.5M; given the blockbuster size of the stroke market, we recognize the therapy must be affordable for the market size.
- 9. But are also relatively in-line with other allogeneic cell therapies currently on the market, despite the other allogeneic cell therapies not being approved for the same targeted indications.
- 10. Our sum-of-the-parts model uses the same probabilities as the product models and the same discount rate as the FCFF. We apply a risk factor of 70% for the trauma and AMI clinical programs as they are in earlier stages (neither beyond Phase 2) and have only been tested in a limited number of patients. We anticipate reducing this risk factor should the trials meet our assumptions of producing data in the next year. For royalties and partnerships, we also use 50% because they are dependent on a third party, Healios, and therefore do not provide transparency in terms of timing of cash flows to Athersys. Lastly, the stroke and ARDS indications have a 50% risk factor as a result of the inherent variability associated with stroke and the fact that the current pivotal programs are based on a post-hoc analysis.
- 11. Discount rate. We use a 30% discount rate to account for the fact that Athersys is not yet a profitable company, with assets still in clinical development and several years from commercialization. For this reason, we add an additional risk premium to the calculated WACC to arrive at our 30% discount rate.

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Exhibit 3. MultiStem Ischemic Stroke (U.S.).

Ischemic Stroke (U.S.)	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
No. of Annual Strokes	696,000	696,696	697,393	698,090	698,788	699,487	700,186	700,887	701,588	702,289	702,991	703,694	704,398	705,102
Market Size Growth	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Associated Mortality	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%
Ischemic Strokes Survivors	582,552	583,135	583,718	584,301	584,886	585,471	586,056	586,642	587,229	587,816	588,404	588,992	589,581	590,171
Total cortical ischemic stroke patients (35%)	203,893	204,097	204,301	204,505	204,710	204,915	205,120	205,325	205,530	205,736	205,941	206,147	206,353	206,560
Market Share Penetration	0%	0%	0%	0%	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%
Number of Patients Procedures	-	-	-	-	-	29,274	58,606	87,996	117,446	146,954	176,521	206,147	235,832	265,577
Cost of Therapy	•					\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Risk Factor						50%	50%	50%	50%	50%	50%	50%	50%	50%
Total Revenue ('000)						\$ 365,919	\$ 732,570	\$1,099,954	\$1,468,072	\$1,836,925	\$2,206,514	\$2,576,841	\$2,947,906	\$3,319,711

Source: Dawson James estimates.

Exhibit 4. MultiStem Ischemic Stroke (Japan).

Ischemic Stroke (Japan)	2017E	2018E	2019E	2020E	2021E	2022E		2023E	2024E	. 2	025E	2026E	2027	2028E	2029E	2030E
No. of Annual Strokes	295,800	296,096	296,392	296,688	296,985	297,282	29	97,579	297,877	298	,175	298,473	298,771	299,070	299,369	299,669
Market Size Growth	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%		0.1%	0.1%		0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Associated Mortality	16.3%	16.3%	16.3%	16.3%	16.3%	16.3%		16.3%	16.3%	. 1	6.3%	16.3%	16.3%	16.3%	16.3%	16.3%
Ischemic Strokes Survivors	247,585	247,832	248,080	248,328	248,576	248,825	24	19,074	249,323	249	,572	249,822	250,072	250,322	250,572	250,823
Total cortical ischemic stroke patients (35%)	86,655	86,741	86,828	86,915	87,002	87,089	8	37,176	87,263	87	,350	87,438	87,525	87,613	87,700	87,788
Market Share Penetration	0%	0%	0%	0%	0%	5%		10%	15%		20%	25%	30%	35%	40%	45%
Number of Patients Procedures	-	-	-	-	-	12,441	2	24,907	37,398	49	,914	62,455	75,021	87,613	100,229	112,870
Cost of Therapy	1					\$ 25,000	\$ 2	25,000	25,000	\$ 25	,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Risk Factor						50%		50%	50%	,	50%	50%	50%	50%	50%	50%
Japan Annual Sales						\$ 155,516	\$ 31	11,342	467,480	\$ 623	,931	780,693	\$ 937,769	\$1,095,157	\$1,252,860	\$1,410,877
Royalty to Athersys						8%		10%	12%	,	14%	15%	15%	15%	15%	15%
Total Revenue ('000)						\$ 12,441	\$ 3	31,134	56,098	\$ 87	,350	117,104	\$ 140,665	\$ 164,274	\$ 187,929	\$ 211,632

Source: Dawson James estimates.

Exhibit 5. MultiStem Hemorrhagic Stroke (U.S.)

Hemorrhagic Stroke (U.S.)	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
No. of Annual Hem. Strokes (13% of total)	90,480	90,570	90,661	90,752	90,842	90,933	91,024	91,115	91,206	91,298	91,389	91,480	91,572	91,663
Market Size Growth	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Associated Mortality	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%
Hemorrhagic Strokes Survivors	63,336	63,399	63,463	63,526	63,590	63,653	63,717	63,781	63,844	63,908	63,972	64,036	64,100	64,164
Market Share Penetration	0%	0%	0%	0%	0%	0%	0%	15%	30%	50%	55%	60%	65%	70%
Number of Patients Procedures	-	-	-	-	-	-	-	9,567	19,153	31,954	35,185	38,422	41,665	44,915
Cost of Therapy							\$ 25,000 \$	\$ 25,000	\$ 25,000	25,000	\$ 25,000 \$	25,000	25,000	\$ 25,000
Risk Factor							50%	50%	50%	50%	50%	50%	50%	50%
Total Revenue ('000)						\$ -	\$ - \$	119,589	239,417	399,427	439,809	480,271	520,814	\$ 561,438

Source: Dawson James estimates.

Exhibit 6. MultiStem Acute Respiratory Distress Syndrome (U.S.).

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Acute Respiratory Distress Syndrome (U.S.)	2017E	2018E	2019E	2020E	2021E	2022E	202	23E	2024E	2025E	202	6E	2027E	2028E		2029E	2030E
No. of Annual Cases	228900	235,996	243,312	250,854	258,631	266,648	274,9	15	283,437	292,223	301,28	2	310,622	320,251		330,179	340,415
Market Size Growth	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.	1%	3.1%	3.1%	3.1	%	3.1%	3.1%	•	3.1%	3.1%
Market Share Penetration			0.0%	0.0%	0.0%	1%		2%	3%	4%		%	6%	7%	•	8%	9%
Number of Patients Procedures			-	-	-	2,666	5,4	98	8,503	11,689	15,06	4	18,637	22,418		26,414	30,637
Cost of Therapy						\$ 25,000	\$ 25,0	00 \$	25,000	\$ 25,000	\$ 25,00	0 \$	25,000	\$ 25,000	\$	25,000	\$ 25,000
Risk adjustment						50%	5	0%	50%	50%	50	1%	50%	50%)	50%	50%
Total Revenue ('000)						\$ 33,331	\$ 68,7	29 \$	106,289	\$ 146,112	\$ 188,30	2 \$	232,967	\$ 280,220	\$	330,179	\$ 382,967

Source: Dawson James estimates.

Exhibit 7. MultiStem Acute Myocardial Infarction (U.S.).

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Acute Myocardial Infarction (U.S.)	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
No. of Annual Heart Attacks	720,000	799,920	888,711	987,358	1,096,955	1,218,717	1,353,994	1,504,288	1,671,264	1,856,774	2,062,876	2,291,855	2,546,251	2,828,885
Market Size Growth	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%
Associated Mortality			15.5%	15.5%	15.5%	15.5%	15.5%	15.5%	15.5%	15.5%	15.5%	15.5%	15.5%	15.5%
AMI Survivors			750,961	834,318	926,927	1,029,816	1,144,125	1,271,123	1,412,218	1,568,974	1,743,130	1,936,618	2,151,582	2,390,408
Market Share Penetration			0%	0%	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
Number of Patients Procedures			-	-	-	10,298	22,883	38,134	56,489	78,449	104,588	135,563	172,127	215,137
Cost of Therapy						\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Risk adjustment						70%	70%	70%	70%	70%	70%	70%	70%	70%
Total Revenue ('000)						\$ 77,236	\$ 171,619	\$ 286,003	\$ 423,665	\$ 588,365	\$ 784,409	\$1,016,724	\$1,290,949	\$1,613,525

Source: Dawson James estimate.

Exhibit 8. Trauma (U.S.).

Trauma (U.S.)	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
Trauma Prevelance	2,500,000	2,577,500	2,657,403	2,739,782	2,824,715	2,912,281	3,002,562	3,095,642	3,191,606	3,290,546	3,392,553	3,497,722	3,606,152	3,717,942
Market Size Growth	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%
% of Patients Hospitalized	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%
Treatable Population	312,500	322,188	332,175	342,473	353,089	364,035	375,320	386,955	398,951	411,318	424,069	437,215	450,769	464,743
Market Share Penetration			0%	0%	0%	0%	1%	3%	5%	7%	9%	11%	13%	15%
Number of Patients Procedures			-	-	-	-	3,753	11,609	19,948	28,792	38,166	48,094	58,600	69,711
Cost of Therapy							\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Risk adjustment						70%	70%	70%	70%	70%	70%	70%	70%	70%
Total Revenue ('000)							\$ 28,149	\$ 87,065	\$ 149,607	\$ 215,942	\$ 286,247	\$ 360,703	\$ 439,500	\$ 522,836

Source: Dawson James estimates.

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Valuation. Our therapeutic models for MultiStem assume a probability of success (PoS) for all the forecast therapeutic indications. We project our model through the year 2030. For modeling purposes, we use a 30% risk rate (r) in our Free Cash Flow to the Firm (FCFF), discounted EPS, and Some-Of-The-Parts (SOP) models. Our price target is derived from these three models, equally weighting and averaged to the nearest whole number. The result is a one-year price target of \$12.00 per share.

Exhibit 9. FCFF Model.

Average of Metrics	\$ 12
FCFF Price Target	\$ 14
Year	2020

DCF Valuation Using FCFF (mln):

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EBIT	(45,488)	(53,484)	(46,598)	345,916	762,717	1,369,395	1,983,922	2,656,212	3,257,395	3,893,659	4,569,761	5,291,113
Tax Rate	0%	0%	0%	14%	16%	20%	24%	28%	29%	30%	31%	32%
EBIT(1-t)	(45,488)	(53,484)	(46,598)	297,488	640,682	1,095,516	1,507,781	1,912,473	2,312,750	2,725,561	3,153,135	3,597,957
CapEx	(579)	(637)	(701)	(771)	(848)	(932)	(1,026)	(1,128)	(1,241)	(1,365)	(1,502)	(1,652)
Depreciation	941	1,035	1,138	1,252	1,377	1,515	1,666	1,833	2,016	2,218	2,439	2,683
Change in NWC	(130)	-	-	-	-	-	-	-	-	-	-	-
FCFF	(44,997)	(53,086)	(46,161)	297,969	641,211	1,096,098	1,508,422	1,913,177	2,313,525	2,726,414	3,154,073	3,598,988
PV of FCFF	(58,495)	(53,086)	(35,508)	176,313	291,858	383,774	406,262	396,365	368,698	334,230	297,428	261,064
Discount Rate	30%											
Long Term Growth Rate	1%											
Terminal Cash Flow	12,534,406											
Terminal Value YE2030	909,223											

Source: Dawson James estimates.

NPV-Debt Shares out ('000)

NPV Per Share

Exhibit 10. Discounted EPS Model.

Current Year	2020
Year of EPS	2030
Earnings Multiple	15
Discount Factor	30%
Selected Year EPS	\$ 8.45
NPV	\$ 9.19

3,678,124

265,686

		Discount Rate and Earnings Multiple Varies, Year is Constant 2030 EPS								
	9.2	20%	25%	30%	35%	40%	45%			
	10	\$13.64	\$9.07	\$6.13	\$4.20	\$2.92 \$	2.06			
	15	\$20.46	\$13.60	\$9.19	\$6.30	\$4.38 \$	3.08			
	20	\$27.28	\$18.14	\$12.25	\$8.40	\$5.84 \$	4.11			
Earnings	25	\$34.11	\$22.67	\$15.32	\$10.50	\$7.30 \$	5.14			
Multiple	30	\$40.93	\$27.21	\$18.38	\$12.60	\$8.76 \$	6.17			
	35	\$47.75	\$31.74	\$21.45	\$14.70	\$10.22 \$	7.20			
	40	\$54.57	\$36.28	\$24.51	\$16.80	\$11.68 \$	8.22			
	45	\$61.39	\$40.81	\$27.57	\$18.90	\$13.14 \$	9.25			

Source: Dawson James estimates.

Exhibit 11. Sum of the Parts Model.

Athersys Sum of the Parts	LT Gr	Discount Rate	Yrs. to Mkt	% Success	Peak Sales	Term Val
MultiStem Ischemic Stroke (U.S.)	1%	30%	3	50%	\$4,742	\$16,353
NPV						\$5.60
MultiStem Hemmorhhaagic Stroke (U	1%	30%	3	50%	\$1,123	\$3,872
NPV						\$1.33
MultiStem GI GVHD	1%	30%	3	50%	\$0	\$0
NPV						\$0.00
MultiStem ARDS	1%	30%	6	50%	\$766	\$2,641
NPV						\$0.41
MultiStem AMI	1%	30%	5	30%	\$5,378	\$18,546
NPV						\$2.26
MultiStem Trauma	1%	30%	6	30%	\$1,743	\$6,010
NPV						\$0.56
Net Margin						40%
MusItiStem-Japan Royalties	1%	30%	3	50%	\$423	\$1,460
NPV						\$1.25
MM Shrs OS	-					266
						\$11.41

Source: Dawson James estimates.

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Risk Analysis

Clinical Risk: Athersys is an early-stage biotechnology company currently operating with high expenditures and no product revenues. A significant element of the company's valuation is associated with its lead clinical candidate MultiStem. As such, clinical progress with this stem cell product represents the key risk for the company and shareholders.

Commercial Risk: There can be no assurances that the pipeline products will be commercialized, and if they receive regulatory approval, there is a risk that Athersys will not be able to reach the projected market share potential.

Employee Risk: Athersys has an experienced management team, which plans to ideally bring MultiStem to market within the next three years. The success of the company may depend on the expertise, abilities, and continued services of its senior officers, sales staff, and key scientific personnel.

Financial Risk: Athersys has a high burn rate and is currently not a profitable company. The company might face multiple dilutions in the future to raise capital to fund its operations.

Intellectual Property Risk: The company may have to defend its patents and technical know-how, and there can be no assurances that the patents will not be infringed upon or will be held as valid if challenged, and the company may infringe on third party's patents.

Partnership Risk: The potential benefits from the partnership with Healios are subject to certain milestones, which, if not achieved, may delay commercialization in Japan and fail to provide payments to Athersys.

Regulatory Risk: There are no assurances that Athersys' products will be approved in the U.S., Japan, Europe, or other markets.

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Exhibit 12. Income Statement.

Athersys, Inc. Income Statement (\$ '000)	BI					BN	BS	BX	CC	CH	CM	CR	CW	DB	DG	DL	DQ
ATHX: YE Dec. 31	2018A	1Q19A	2Q19A	3Q19A	4Q19A	2019A	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
Product Revenue (000's)	2016A	IQIBA	ZQISA	JUIJA	4Q13A	2019A	2020E	20215	2022E	2023E	2024E	2023E	2020E	2027	2020E	2029E	2030E
MultiStem Ischemic Stroke (U.S.)									365,919	732,570	1,099,954	1,468,072	1,836,925	2,206,514	2,576,841	2,947,906	3,319,711
									305,919	132,510	1,099,954	1,466,072	1,836,925	2,206,514	2,576,641	2,947,906	3,319,711
% Chg									12,441	31,134	56,098	87,350	117,104	440.005	164,274	187,929	211,632
MultiStem Ischemic Stroke (Japan) - Royalty									12,441	31,134	56,098	87,350	117,104	140,665	164,274	167,929	211,032
% Chg											440.500	000 447	000 407	400 000	400.074	500.044	504 400
MultiStem Hemmorhhaagic Stroke (US.)									-	-	119,589	239,417	399,427	439,809	480,271	520,814	561,438
% Chg									00.004	00.700	400.000	440440	400.000	000 007	000 000	000 470	000 007
MultiStem ARDS									33,331	68,729	106,289	146,112	188,302	232,967	280,220	330,179	382,967
% Chg																	
MultiStem AMI									77,236	171,619	286,003	423,665	588,365	784,409	1,016,724	1,290,949	1,613,525
% Chg																	
MultiStem Trauma										28,149	87,065	149,607	215,942	286,247	360,703	439,500	522,836
% Chg															V		
Total Revenues (Product Sales, Grants & Milestones)	-	-	-	•	-	-	-	-	488,928	1,004,052	1,754,997	2,514,223	3,346,065	4,090,610	4,879,033	5,717,278	6,612,108
Contract revenues from Healios	22,276	1,441	4,193	(368)	251	5,517											
% Chg																	
License Fees - Contract revenues	1,461		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Chg																	
Grant Revenues	554	4	69	7	36	116	16	17	17	17	17	17	17	18	18	18	18
% Chg	.																
Pfizer Milestones																	
% Chg																	
Total Revenues (Product Sales, Grants & Milestones)	24,291	1,445	4,262	(361)	287	5,633	16	17	488,944	1,004,069	1,755,014	2,514,240	3,346,082	4,090,628	4,879,051	5,717,296	6,612,126
Expenses																	
COGS (excludes royalties)	- 1	-	-	-	- 1	-	-	-	95,297	194,584	339,780	485,374	645,792	789,989	942,952	1,105,870	1,280,095
COGS % Product Sales		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
R&D	38,656	11,415	11,139	8,856	7,634	39,044	42,000	35,000	36,000	34,920	33,872	32,856	31,871	30,914	29,987	29,087	28,215
R&D % Revs														00,01	20,007	29,007	20,210
G&A	l l												·	00,011	23,307		20,210
	10,442	3,106	2,867	2,958	2,448	11,379	11,500	11,615	11,731	11,848	11,967	12,087	12,207	12,330	12,453	12,577	
G&A % Rev's							11,500	11,615	11,731	11,848	11,967	12,087	12,207				
G&A % Rev's Other (depreciation)	855	184	157	167	190	941	·	_						12,330	12,453	12,577	12,703
G&A % Rev's Other (depreciation) Total expenses	855 49,953	184 14,705	157 14,163	167 11,981	190 10,272	941 51,121	53,500	46,615	143,028	241,352	385,619	530,317	689,870	12,330	12,453 985,392	12,577	12,703 1,321,013
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss)	855 49,953 (25,662)	184	157	167	190	941	·	_						12,330	12,453	12,577	12,703 1,321,013
G&A% Revs Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net	855 49,953 (25,662) 617	184 14,705	157 14,163	167 11,981	190 10,272	941 51,121	53,500	46,615	143,028	241,352	385,619	530,317	689,870	12,330	12,453 985,392	12,577	12,703 1,321,013
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss)	855 49,953 (25,662) 617 (25,045)	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013 5,291,113
G&A% Revs Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net	855 49,953 (25,662) 617	184 14,705	157 14,163	167 11,981	190 10,272	941 51,121	53,500	46,615	143,028	241,352	385,619	530,317	689,870	12,330	12,453 985,392	12,577	12,703 1,321,013 5,291,113
G&A% Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin	855 49,953 (25,662) 617 (25,045)	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013 5,291,113
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss)	855 49,953 (25,662) 617 (25,045) NM	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013 5,291,113
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net)	855 49,953 (25,662) 617 (25,045) NM	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013 5,291,113
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate	855 49,953 (25,662) 617 (25,045) NM	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013 5,291,113
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends	855 49,953 (25,662) 617 (25,045) NM	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013 5,291,113
G&A% RevS Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation	855 49,953 (25,662) 617 (25,045) NM	184 14,705 (13,260)	157 14,163 (9,901)	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598)	143,028 345,916	241,352 762,717	385,619 1,369,395	530,317 1,983,922	689,870 2,656,212	12,330 833,233 3,257,395	12,453 985,392 3,893,659	12,577 1,147,534 4,569,761	12,703 1,321,013
G&A% RevS Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock	855 49,953 (25,662) 617 (25,045) NM 762	184 14,705 (13,260) NM 304	157 14,163 (9,901) NM 213	167 11,981 (12,342) NM 327	190 10,272 (9,985) NM 62	941 51,121 (45,488) NM 906	53,500 (53,484) NM	46,615 (46,598) NM	143,028 345,916 71%	241,352 762,717 76%	385,619 1,369,395 78%	530,317 1,983,922 79%	689,870 2,656,212 79%	12,330 833,233 3,257,395 80%	12,453 985,392 3,893,659 80%	12,577 1,147,534 4,569,761 80%	1,321,013 5,291,113 80%
G&A% Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income	855 49,953 (25,662) 617 (25,045) NM	184 14,705 (13,260)	157 14,163 (9,901) NM 213	167 11,981 (12,342)	190 10,272 (9,985)	941 51,121 (45,488)	53,500 (53,484)	46,615 (46,598) NM	143,028 345,916 71%	241,352 762,717 76%	385,619 1,369,395 78%	530,317 1,983,922 79%	689,870 2,656,212 79% 2,656,212	12,330 833,233 3,257,395 80%	12,453 985,392 3,893,659 80%	12,577 1,147,534 4,569,761 80%	12,703 1,321,013 5,291,113 809
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes	855 49,953 (25,662) 617 (25,045) NM 762	184 14,705 (13,260) NM 304	157 14,163 (9,901) NM 213	167 11,981 (12,342) NM 327	190 10,272 (9,985) NM 62 (9,923)	941 51,121 (45,488) NM 906	53,500 (53,484) NM	46,615 (46,598) NM	143,028 345,916 71% 345,916 48,428	241,352 762,717 76%	385,619 1,369,395 78% 1,369,395 273,879	530,317 1,983,922 79% 1,983,922 476,141	689,870 2,656,212 79% 2,656,212 743,739	12,330 833,233 3,257,395 80% 3,257,395 944,645	12,453 985,392 3,893,659 80%	12,577 1,147,534 4,569,761 80%	1,321,013 5,291,113 809 5,291,113 1,693,156
G&A% RevS Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes Tax Rate	855 49,953 (25,662) 617 (25,045) NM 762	184 14,705 (13,260) NM 304	157 14,163 (9,901) NM 213	167 11,981 (12,342) NM 327	190 10,272 (9,985) NM 62 (9,923)	941 51,121 (45,488) NM 906 (44,582)	53,500 (53,484) NM (53,484)	46,598) NM (46,598)	143,028 345,916 71% 345,916 48,428 14%	241,352 762,717 76% 762,717 122,035 16%	385,619 1,369,395 78% 1,369,395 273,879 20%	530,317 1,983,922 79% 1,983,922 476,141 24%	689,870 2,656,212 79% 2,656,212 743,739 28%	12,330 833,233 3,257,395 80% 3,257,395 944,645 29%	12,453 985,392 3,893,659 80% 3,893,659 1,168,098 30%	12,577 1,147,534 4,569,761 80% 4,569,761 1,416,626 31%	12,703 1,321,013 5,291,113 809 5,291,111 1,693,156
G&A% Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes Taxes Tax Rate Net Income	855 49,953 (25,662) 617 (25,045) NM 762 (24,283)	184 14,705 (13,260) NM 304 (12,956)	157 14,163 (9,901) NM 213 (9,688)	167 11,981 (12,342) NM 327 (12,015)	190 10,272 (9,985) NM 62 (9,923)	941 51,121 (45,488) NM 906 (44,582)	53,500 (53,484) NM (53,484)	46,515 (46,598) NM (46,598)	143,028 345,916 71% 345,916 48,428 14% 297,488	241,352 762,717 76% 762,717 122,035 16% 640,682	385,619 1,369,395 78% 1,369,395 273,879 20% 1,095,516	530,317 1,983,922 79% 1,983,922 476,141 24% 1,507,781	689,870 2,656,212 79% 2,656,212 743,739 28% 1,912,473	12,330 833,233 3,257,395 80% 3,257,395 944,645 29% 2,312,750	12,453 985,392 3,893,659 80% 3,893,659 1,168,098 30% 2,725,561	12,577 1,147,534 4,569,761 80% 4,569,761 1,416,626 31% 3,153,135	12,703 1,321,013 5,291,113 809 5,291,113 1,693,156 329 3,597,957
G&A% Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes Tax Rate Net Income Net Margin	855 49,953 (25,662) 617 (25,045) NM 762 (24,283) 0% (24,283) NM	184 14,705 (13,260) NM 304 (12,956) - 0% (12,956) NM	157 14,163 (9,901) NM 213 (9,688)	167 11,981 (12,342) NM 327 (12,015)	190 10,272 (9,985) NM 62 (9,923) - 0% (9,923) NM	941 51,121 (45,488) NM 906 (44,582)	(53,484) NM (53,484)	46,598) NM (46,598) - 0% (46,598) NM	143,028 345,916 71% 345,916 48,428 44% 297,488 61%	762,717 76% 762,717 76% 762,717 12,035 16% 640,682 64%	385,619 1,369,395 78% 1,369,395 273,879 20% 1,095,516 62%	530,317 1,983,922 79% 1,983,922 476,141 2,74% 1,507,741 60%	2,656,212 79% 2,656,212 743,739 28% 1,912,473 57%	12,330 833,233 3,257,395 80% 3,257,395 944,645 29% 2,312,750 57%	12,453 985,392 3,893,659 80% 3,893,659 1,168,098 30% 2,725,561 56%	12,577 1,147,534 4,569,761 80% 4,569,761 1,416,626 31% 3,153,135 55%	12,703 1,321,013 5,291,113 809 5,291,113 1,693,156 329 3,597,957 549
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes Tax Rate Net Income Net Margin EPS	855 49,953 (25,662) 617 (25,045) NM 762 (24,283) - 0% (24,283) NM (0.18)	184 14,705 (13,260) NM 304 (12,956) - 0% (12,956) NM (0.09)	157 14,163 (9,901) NM 213 (9,688) - 0% (9,688) NM (0.06)	167 11,981 (12,342) NM 327 (12,015) - 0% (12,015) NM (0.08)	190 10,272 (9,985) NM 62 (9,923) (9,923) NM (0,06)	941 51,121 (45,488) NM 906 (44,582) - 0% (44,582) NM (0,29)	53,500 (53,484) NM (53,484) 0% (53,484) NM	46,598) NM (46,598) - 0% (46,598) NM (0,23)	143,028 345,916 71% 345,916 48,428 14% 297,488 61% 1.38	762,717 76% 762,717 122,035 16% 640,682 2.75	1,369,395 78% 1,369,395 273,879 20% 1,095,166 62% 4,34	530,317 1,983,922 79% 1,983,922 476,141 24% 1,507,781 60% 5.52	2,656,212 79% 2,656,212 743,739 28% 1,912,73 57% 6.47	12,330 833,233 3,257,395 80% 3,257,395 944,645 29% 2,312,75% 7,23	12,453 985,392 3,893,659 80% 3,893,659 1,168,098 30% 2,725,66 56% 7.87	12,577 1,147,534 4,569,761 80% 4,569,761 1,416,626 31% 3,153,155 555% 8.41	1,321,013 5,291,113 809 5,291,113 1,693,156 329 3,597,957 5,44
G&A% RevS Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes Tax Rate Net Income Net Margin EPS Non GAAP EPS (dil)	855 49,953 (25,662) 617 (25,045) NM 762 (24,283) - (24,283) NM (0.18)	184 14,705 (13,260) NM 304 (12,956) - 0% (12,956) NM (0.09) (0.08)	157 14,163 (9,901) NM 213 (9,688) 0% (9,688) NM (0.06)	167 11,981 (12,342) NM 327 (12,015) - 0% (12,015) NM (0.08) (0.07)	190 10,272 (9,985) NM 62 (9,923) - 0% (9,923) NM (0,06)	941 51,121 (45,488) NM 906 (44,582) - 0% (44,582) NM (0,29)	(53,484) NM (53,484) (53,484) (53,484) NM (0,30) (0,28)	46,615 (46,598) NM (46,598) - 0% (46,598) NM (0,23) (0,22)	143,028 345,916 71% 345,916 48,428 14% 297,488 61% 1,38	762,717 76% 762,717 122,035 16% 640,682 64% 2.75 2.77	385,619 1,369,395 78% 1,369,395 273,879 20% 1,095,516 62% 4,34 4,36	530,317 1,983,922 79% 1,983,922 476,141 24% 1,507,781 60% 5,52 5,54	2,656,212 79% 2,656,212 743,739 28% 1,912,473 5.7% 6.47	12,330 833,233 3,257,395 80% 3,257,395 944,645 29% 2,312,750 57% 7.23 7.24	12,453 985,392 3,893,659 80% 3,893,659 1,168,098 30% 2,725,561 56% 7,87 7,89	12,577 1,147,534 4,569,761 80% 4,569,761 1,416,626 31% 3,153,135 55% 8,41 8,43	1,321,013 5,291,113 809 5,291,113 1,693,156 329 3,597,957 549 8.878 8.888
G&A % Rev's Other (depreciation) Total expenses Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Gain from sale of insurance proceeds, net Oper. Inc. (Loss) Oper Margin Other Income Expense (net) Other Income (loss of unconsolidated affiliate Equity Earnings (loss) of unconsolidated affiliate Expense from change in fair value of warrants, net Preferred Stock Dividends Change in Warrant valuation Deemed dividend resulting from induced conversion of convert p.stock Pre-tax income Taxes Tax Rate Net Income Net Margin EPS	855 49,953 (25,662) 617 (25,045) NM 762 (24,283) - 0% (24,283) NM (0.18)	184 14,705 (13,260) NM 304 (12,956) - 0% (12,956) NM (0.09)	157 14,163 (9,901) NM 213 (9,688) - 0% (9,688) NM (0.06)	167 11,981 (12,342) NM 327 (12,015) - 0% (12,015) NM (0.08)	190 10,272 (9,985) NM 62 (9,923) (9,923) NM (0,06)	941 51,121 (45,488) NM 906 (44,582) - 0% (44,582) NM (0,29)	53,500 (53,484) NM (53,484) 0% (53,484) NM	46,598) NM (46,598) - 0% (46,598) NM (0,23)	143,028 345,916 71% 345,916 48,428 14% 297,488 61% 1.38	762,717 76% 762,717 122,035 16% 640,682 2.75	1,369,395 78% 1,369,395 273,879 20% 1,095,166 62% 4,34	530,317 1,983,922 79% 1,983,922 476,141 24% 1,507,781 60% 5.52	2,656,212 79% 2,656,212 743,739 28% 1,912,73 57% 6.47	12,330 833,233 3,257,395 80% 3,257,395 944,645 29% 2,312,75% 7,23	12,453 985,392 3,893,659 80% 3,893,659 1,168,098 30% 2,725,66 56% 7.87	12,577 1,147,534 4,569,761 80% 4,569,761 1,416,626 31% 3,153,155 555% 8.41	12,703 1,321,013 5,291,113 80% 5,291,113 1,693,156 32% 3,597,957

Source: Dawson James estimates.



Companies mentioned in this report:

Healios (TYO-4593: Not Rated)

Important Disclosures:

Price Chart:



Price target and rating changes over the past three years:

Initiated – Buy – August 26, 2019 – Price Target \$11.00

Update – Buy – November 7, 2019 – Price Target \$11.00

Update – Buy – January 14, 2020 – Price Target \$11.00

Update - Buy - February 11, 2020 - Price Target \$11.00

Update - Price Target Change - March 17, 2020 - Price Target from \$11.00 to \$12.00

Update – Buy – March 23, 2020 – Price Target 12.00

Update – Buy – April 9, 2020 – Price Target 12.00

Update – Buy – April 13, 2020 – Price Target 12.00

Update - Buy - April 15, 2020 - Price Target 12.00

Update - Buy - May 1, 2020 - Price Target 12.00

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

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- 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;
- Neutral: The analyst believes the price of the stock is fairly valued for the next 12-18 months:
- 3) **Sel**l: 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	92%	3	14%			
Market Perform (Neutral)	2	8%	1	50%			
Market Underperform (Sell)	0	0%	0	0%			
Total	24	100%	4	17%			

Analyst Certification:

The analyst(s) whose name appears on this research report certifies that 1) all of the views expressed in this report accurately reflect his (their) personal views about any and all of the subject securities or issuers discussed; and 2) no part of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst in this research report; and 3) all Dawson James employees, including the analyst(s) responsible for preparing this research report, may be eligible to receive non-product or service-specific monetary bonus compensation that is based upon various factors, including total revenues of Dawson James and its affiliates as well as a portion of the proceeds from a broad pool of investment vehicles consisting of components of the compensation generated by investment banking activities, including but not limited to shares of stock and/or warrants, which may or may not include the securities referenced in this report.

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