

September 2, 2014

T2 Biosystems Inc

Revolutionary Technology for Sepsis Diagnosis; Initiate at Equal-weight; PT \$18.00

T2 is pursuing a large unmet need in sepsis and expects FDA approval of its Candida assay by E14. We are comfortable with our \$115MM 2017e revenue, but the ramp has risk. Upside remains to the bull case, but stock up 100% since pricing, initiate Equal-weight.

Serving a critical unmet need: Sepsis is the most costly hospital-treated condition, driving \$20BN of US hospital costs per year and a 30% mortality rate among the 1.35MM patients diagnosed annually out of 6.0-8.0MM patients deemed high-risk. T2 testing of ~6.75MM high-risk patients in the US implies a TAM of \$2BN accounting only for T2 panel revenues.

A game-changer in rapid diagnosis: T2Dx offers: (1) speed, providing results from a blood sample in 3 hours — beating competing technologies by 24+ hours and curbing drug spend on uninfected patients; (2) ease of use, eliminating manual prep that introduces risk of cross-contamination; and (3) clinical validation, with data demonstrating +80% sensitivity and +90% specificity. We forecast sales of ~\$115MM in 2017, reflecting penetration into only ~75 US hospitals out of 450 treating >3,000 high-risk patients per year. We believe T2 has 2-3+ years of runway in the US before a competing technology could emerge yielding diagnoses in <24 hours.

Long horizon, but worth the wait: Given the critical bacterial panel launch is still ~2 years away, we value T2 on 2017e revenues using a ~4.0 EV/Sales multiple, below fast-growing diagnostic peers with demonstrated commercial traction. Assuming a 10% discount rate on '17 financials, we arrive at a 12-month target price of \$18.00 (19% discount to current price, but 64% upside to IPO price) and assign an Equal-weight rating. Our bull case \$45 valuation (104% upside) assumes penetration of >350 sites in 2020 with support from the '16 bacterial panel launch and revenues of ~\$300mn.

Risks are more about the adoption curve: T2's platform is not yet FDA-approved, and while risk remains we expect the Candida approval in late 2014. Competition appears to be years away, but large players are developing molecular platforms that improve upon their current offerings. Uptake is the key variable, tied to lab directors' and steering committees' evaluation, timelines for changing the standard of care, and a more limited assay menu prior to the bacterial panel launch in 2H16.

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T2 Biosystems Inc (T2OO.O , T2OO US)

Life Science Tools & Diagnostics / United States of America

Stock Rating	Equal-weight
Industry View	In-Line
Price target	\$18.00
Shr price, close (Aug 29, 2014)	\$23.21
Mkt cap, curr (mm)	\$55,714
52-Week Range	\$24.50-13.40

Fiscal Year Ending	12/13	12/14e	12/15e	12/16e
Co.-rpt'd rev (\$mm)*	-	-	-	-
ModelWare EPS (\$)	(11.60)	(10.78)	(7.07)	(6.27)
P/E	NM	NM	NM	NM
Div yld (%)	-	0.0	0.0	0.0

Unless otherwise noted, all metrics are based on Morgan Stanley ModelWare framework
 * = GAAP or approximated based on GAAP
 e = Morgan Stanley Research estimates

QUARTERLY MODELWARE EPS (\$)

Quarter	2013	2014e Prior	2014e Current	2015e Prior	2015e Current
Q1	-	-	(3.57)a	-	(1.43)
Q2	-	-	(4.90)	-	(1.58)
Q3	-	-	(2.55)	-	(1.79)
Q4	-	-	(1.71)	-	(2.27)

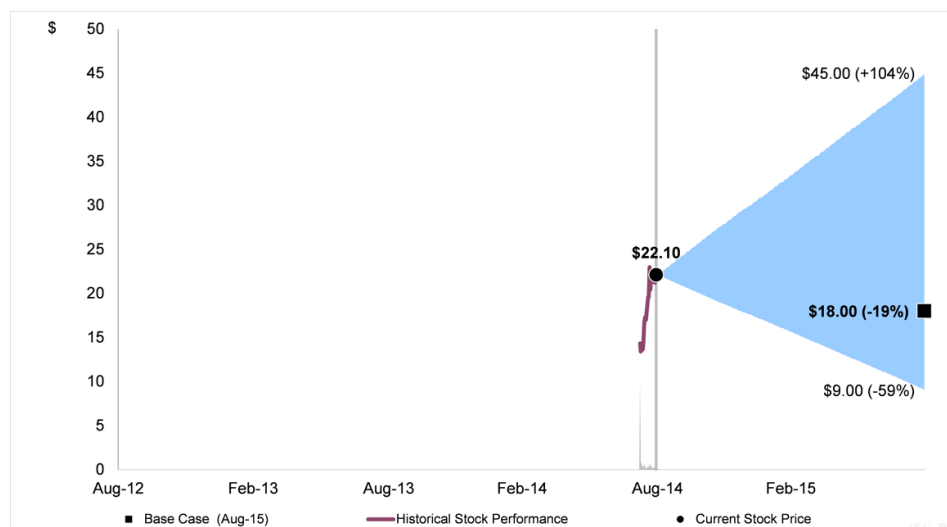
e = Morgan Stanley Research estimates, a = Actual Company reported data

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For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

Risk Reward

Early Phases of a Revolution in Rapid Sepsis Diagnostics



Source: Morgan Stanley Research estimates.

Price Target \$18.00

Value base case 2017 revenues of \$115 MM using a 3.9x EV/Sales multiple, below fast-growing diagnostic peers with demonstrated commercial traction. Assuming a fully loaded share base and 10% discount rate, we arrive at a 12-month target price

Bull \$45

5.0x Bull Case 2020E Rev

Forecasted 2020E revenues capturing significant upside from the launches of T2Bacteria panel and hemostasis panels in 2017 leading to site expansion although gradual test price declines to ~\$135 by 2020 to capture smaller-scale hospitals

Base \$18

3.9x Base Case 2017E Rev

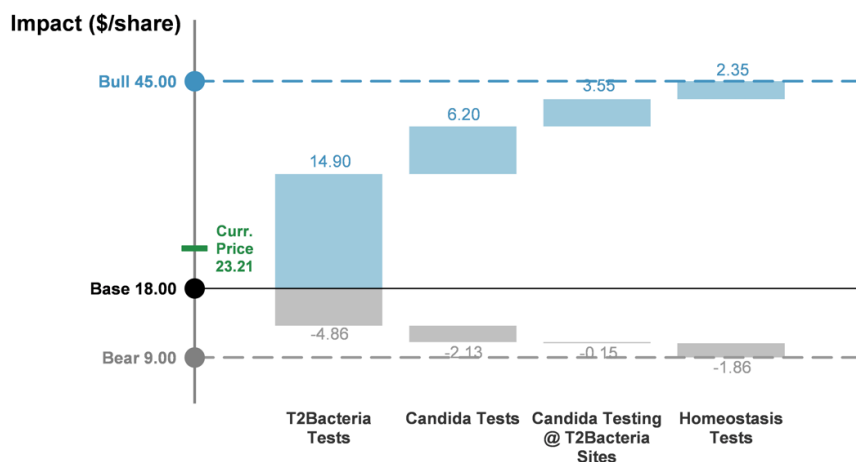
Forecast penetration into 134 sites of top 200 hospitals by end of 2016 expanding to 253 sites (out of top 450 hospitals) by end of 2018 driven by availability of both T2Candida and T2Bacteria test panels, with pricing of ~\$170 per test

Bear \$9

2.5x Bear Case 2017E Rev

Forecast only 90% of penetration from base case, or 121 sites with T2Candida panel and assumes T2Bacteria and hemostasis panels do not launch commercially before 2017.

Exhibit 1: Key Value Drivers: Our Inputs and the Impact on Scenario Values



Source: Morgan Stanley Research.

Investment Thesis

- T2 Biosystem's T2Dx system is serving a critical unmet need through its rapid diagnosis of sepsis in as little as three hours, faster by 24 hours or more than the current standard of care to curb unnecessary drug treatments for the uninfected and accelerate appropriate therapies for infected patients
- We believe T2 has at least two years of runway in the US before competition could emerge with a technology that yields a diagnosis in less than 24 hours
- We expect T2 to generate revenues of \$115MM by 2017 driven by the current paradigm in sepsis diagnosis as the most costly hospital-treated condition in the US, generating \$20BN of US hospital costs per year and yielding a 30% mortality rate from the 1.35MM patients diagnosed

Key Value Drivers

- Speed, providing results from a whole blood sample in three hours — beating competing sepsis diagnosis technologies by at least 24 hours and curbing unnecessary drug treatment for uninfected patients;
- Ease of use, eliminating manual prep steps that can introduce risks of cross-contamination; and
- Clinical validation, with clinical data that demonstrates +80% sensitivity and +90% specificity.
- International expansion in 2017

Catalysts

- FDA approval for the T2Dx and T2Candida systems by YE2014
- Successful commercial launch of T2Dx and T2Candida in the first half of 2015
- Initiation of clinical trials for T2Bacteria in the second half of 2015 with a commercial launch targeted for later 2016, adding an additional 2.0MM patients to its addressable market
- Clinical trial initiation for T2Stat and T2HemoStat in the first half of 2016

Risks to Achieving Price Target

- Delay in FDA approval of the T2Dx system and T2Candida panel
- Slower-than-expected commercial uptake for the new diagnostic modality for sepsis testing since it

requires lab directors to add a new system to their lineup

- The launch of a competing product with a similarly distinguishable clinical profile and process timeline within the next two years
- International penetration fails to materialize

Investment Summary

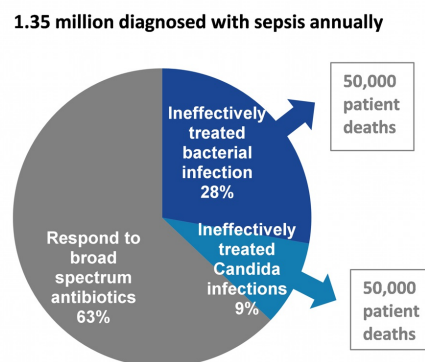
T2 is pursuing a large unmet clinical need in the markets for blood infection and hemostasis. While this market is competitive, we see the company at a 2-3 year competitive advantage and FDA approval of its first assay, candida is likely before YE14 but catalysts beyond that are tied to commercial traction. We remain comfortable with our \$115 million revenue estimate in 2017e but the commercial ramp up over the next two years is not without risk. Our long-term outlook is positive and the Bull case is \$45.00, but with the stock up 100% since pricing, we are initiating at Equal-weight.

Investment Positives

1) Addressing a large-scale healthcare issue: In 2013, the U.S. Department of Health and Human Services reported that sepsis is the most expensive hospital-treated condition in the United States, with an economic burden to hospitals exceeding \$20 billion annually, almost double that of heart attacks. Sepsis affects 1.5-2.0 million patients per year and kills 100,000 out of the 6.0-8.0 million who are deemed high risk. T2's rapid diagnostic solution targets both:

- *Economic burden on the healthcare system:* primarily driven by reducing the hospitalization time for patients; additionally, improvements in test turnaround time would also reduce drug costs, and drive cost savings via reduced antibiotic resistance, limiting downstream procedures, fewer diagnostics, lower readmissions and more effective treatment regimens
- *Suboptimal patient care:* since clinicians will be rapidly informed of the specific sepsis-causing pathogens in order to make more informed, targeted treatment decisions. Among patients with sepsis, currently less than half are treated optimally

Exhibit 2: The landscape of sepsis infections



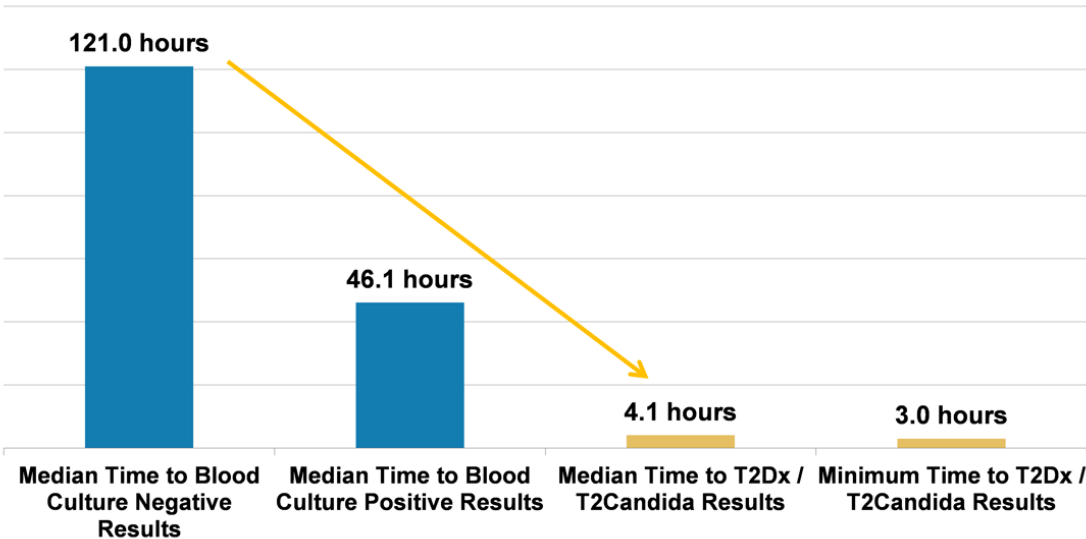
Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), Nationwide Inpatient Sample (NIS), 2011.

2) Product incentives for adoption: T2Dx is an easy-to-use, fully automated, bench-top instrument that is capable of running a broad range of diagnostic panel types from patient sample input to result and employs miniaturized PCR (a method for amplifying DNA across several orders of magnitude) and magnetic resonance (MR) technology for the analysis of whole blood samples.

- *Speed:* T2Dx has been shown in clinical trials to identify species of candida from a whole blood sample in three hours — beating any competing technology in the sepsis diagnosis segment by at least 24 hours
- *Ease of use:* instrument eliminates the need for manual work flow steps such as pipetting that can introduce risks of cross-contamination
- *Clinical validation:* T2 has validated the candida assay in a 1,500 sample prospective study and a 300-sample contrived study, demonstrating over 80% sensitivity and over 90% specificity across a range of species of fungal infections; validating the system's analytical process takes only three hours from sample

to answer

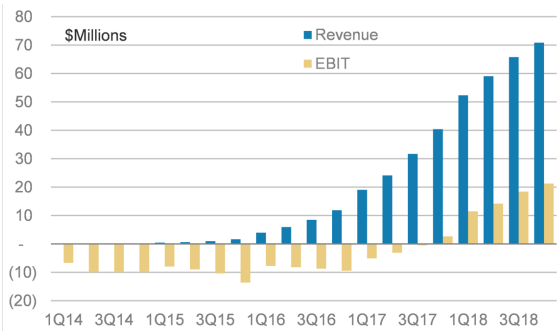
Exhibit 3: Time to result demonstrates potential to dramatically improve care



Source: Company data.

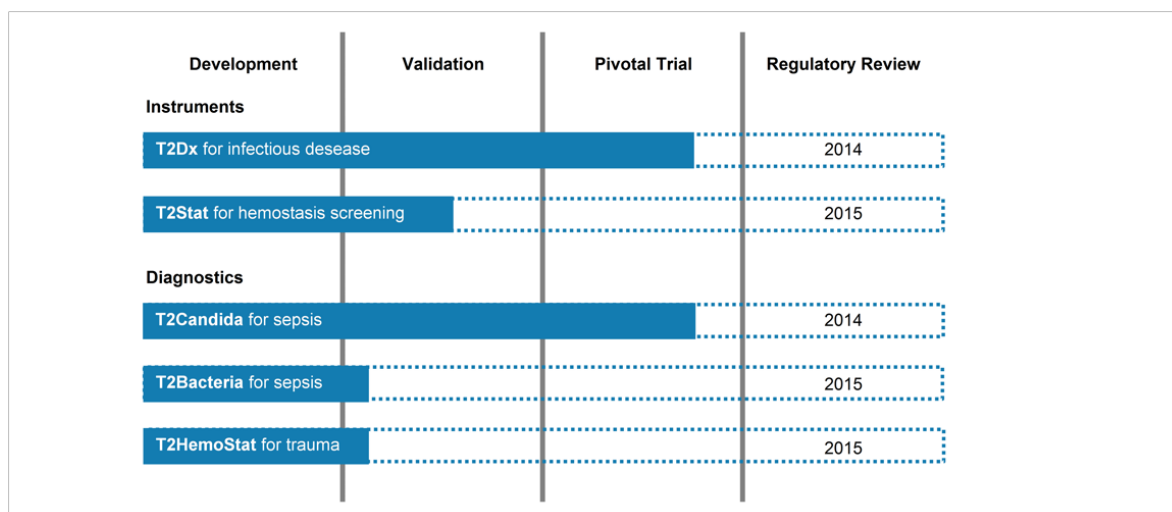
3) First mover advantage: We believe T2 is the only company employing magnetic resonance (MR) technology for this application, a technology which analyzes how water molecules react in the presence of magnetic fields and is highly sensitive to changes in a blood samples at a molecular level. Whereas competing technologies tend to rely on blood culture and in some cases polymerase chain reaction, or PCR, where 90% or more of the target can be lost. We believe MR provides a competitive advantage in situations where a rapid response is required and note the company has a substantial IP portfolio and an exclusive license from Massachusetts General Hospital for the core technology. A competing test that can produce a rapid diagnosis (under 24 hours) we believe is at least two years away.

Exhibit 4: Forecasted EBIT and revenue



Source: Company data, Morgan Stanley Research .

4) Planned test menu expansion: While T2’s first application is for the detection of candida, T2 expects to initiate clinical trials for T2Bacteria in the second half of 2015, rounding out the sepsis diagnosis toolkit. Bacterial infections are a more common driver of sepsis than are candida infections by at least a factor of three, making the bacterial panel a larger driver of the commercial potential of the T2Dx beginning at the time of launch in 2H16. In 2017, T2 plans to launch a new platform through a distribution partner, the smaller and simpler T2Stat platform that will offer a range of hemostasis measurements in as little as 20 minutes, including platelet function, clotting time, and clot degradation, also known as fibrinolysis.

Exhibit 5: T2 Bio product pipeline

Source: Company data.

Key Risks

1) The FDA approval process: T2's timelines are long relative to publicly traded comparable diagnostic companies, in part because the regulatory approval of candida panel and the clinical validation of the bacteria panel are in process. For candida, clarity on FDA approval could be several months away and risk is associated with a delay or inability to achieve approval on first pass. For Bacteria, we forecast 41% of sales in 2018 from the T2 Bacterial platform, which is not expected to reach the market until 2016. Hemostasis is an immaterial driver prior to 2018.

2) Commercial uptake: T2 is focused on introducing a new diagnostic modality for sepsis testing where the gold standard has been blood based culture for decades. While the T2 proposition is powerful, the technology is novel and the selling effort could prove more time-consuming than we anticipate. Widespread adoption will almost certainly require a broader menu than the candida panel and longer-term validation of the system's ability to drive cost savings and clinical outcomes, given the system will require separate training and a new vendor relationship.

3) Competition: While we believe T2 will be the only product on the market able to detect sepsis from whole blood through at least 2015 in the US, the longer term outlook is less clear. The landscape of potential competitors includes companies that are large and well funded, including Abbott, Roche, BioMerieux, and Cepheid. That said, our diligence suggests there are no platforms that have demonstrated performance on whole blood that is comparable to the T2 candida dataset. Relative to any competitor uncovered in our diligence, T2 appears to be favored based on total time of analysis and sensitivity/specificity.

Near Term Catalyst

FDA approval of T2candida by end of 2014: Approval of T2candida before year end to ensure an early 2015 commercial launch will be the first critical milestone for T2 management while public. A fluid approval process will not only bolster the validity of the test and garner support for its adoption, but also provide confidence in management's ability to achieve subsequent expected milestones. Furthermore, for investors seeking clarity on commercial uptake, it would be optimal to have as much lead time as possible to evaluate the performance of T2candida prior to the launch of T2Bacteria.

Valuation

We expect the market to utilize an enterprise value / revenue multiple approach as the primary methodology to value T2, given T2 is an early stage growth company not forecasted to turn profitable until 2017. When evaluating the proper EV/revenue multiple for T2 vs. the set of comparable companies, we expect the market to consider a number of factors, including:

- Revenue growth outlook
- Competitive positioning
- Profitability at steady state (and timing to achieve this)
- Current and future addressable market
- Needs for additional financing

We do not see a perfect comparable for T2 amongst publicly traded diagnostics companies. Thus, we expect investors to compare T2 to a broader set of companies, focusing on those of a similar market capitalization, which includes: FLDM, GHDX, LMNX, NSTG, PACB, VCYT, and CPHD,

Exhibit 6: Comparable companies summary

Ticker	Price	Market Cap	EV / Sales			Debt / EBITDA	Stock Price Performance		Short Interest	2016 Multiples relative to 3yr average			
	08/27/14	(LC mm)	2014	2015	2016	2015	YTD	3 Mths	Ratio (days)	P/E	EV/EBITDA	EV/Sales	S&P Rel.P/E
Life Science Tools													
CPHD	\$39.61	2,780.9	6.1x	5.2x	4.4x	6.8x	-15.1%	-12.3%	12.07	NA	NA	NA	NA
FLDM	\$26.79	754.7	7.5x	5.9x	4.7x	NM	-30.0%	-9.6%	5.63	NA	NA	NA	NA
GHDX	\$29.12	918.1	2.9x	2.6x	2.3x	NM	-0.5%	6.9%	15.58	NA	NA	NA	NA
LMNX	\$18.71	800.1	3.1x	2.8x	2.5x	0.0x	-3.6%	1.7%	14.83	NA	NA	NA	NA
NSTG	\$11.41	206.7	3.0x	2.0x	1.4x	NM	-33.8%	-24.5%	9.74	NA	NA	0.4x	NA
PACB	\$5.38	380.0	6.2x	5.2x	4.0x	NM	2.9%	12.6%	10.73	NA	NA	1.7x	NA
VCYT	\$12.87	276.5	5.4x	2.9x	1.9x	NM	-11.2%	-15.0%	4.23	NA	NA	0.4x	NA
Mean			4.9x	3.8x	3.0x	3.4x	-13.1%	-5.8%	10.40	NM	NM	0.8x	NM
Median			5.4x	2.9x	2.5x	3.4x	-11.2%	-9.6%	10.73	NM	NM	0.4x	NM

Source: Thomson Reuters, Morgan Stanley Research estimates.

Given expectations that the T2Bacteria panel will not launch until 2H2016, we believe 2017 revenue estimates are a more appropriate reflection of the company's revenue generation capacity while balancing the preference to utilize forecasts closer to the present. We utilize a 2.5x - 5.0x range in the EV/sales multiple to reflect the broad trading range of the comparables for 2015 EV/ sales. The multiple range reflects diversity within the set and higher trading multiples for companies like FLDM and CPHD with: (1) demonstrated commercial certainty and success for its diagnostic solution(s); (2) higher revenue growth expectations; (3) and perceived superior innovation of its diagnostic solution(s). Conversely, companies with slower growth potential or more service-driven models are trading at a discount, such as GHDX.

We value T2 off of base case 2017 revenues of \$115 MM using a 3.9x EV/Sales multiple, in-line with the midpoint of the comparable companies given the differentiating technology utilized by T2 while considering the commercial uncertainty around its diagnostic solutions. For the base case revenues we forecast penetration into 134 sites within the top 200 hospitals by the end of 2016 reflecting adoption of T2candida panel. We forecast expansion to 253 sites (out of top 450 hospitals) by end of 2018 driven by launch of T2Bacteria test and assume that the initial 134 sites will utilize both T2candida and T2Bacteria panels. Tests are forecasted at ~\$170 per test assuming 2% annual price increases beginning in 2015. Hemostasis testing only generates ~\$6MM in revenue in 2017. Assuming a fully loaded share base and 10% discount rate, we arrive at a 12-month target price of \$18.00 (19% discount to current stock price, but 64% upside to IPO price).

We value our bull case off of 2020 revenues thereby capturing significant upside from the launches of

T2Bacteria panel and hemostasis panels in 2017. Site expansion reaches 367 sites for sepsis testing, considering bacterial sepsis is a significantly larger opportunity. To attract smaller-scale hospitals, we assume the company will need to decrease prices which is reflected in a gradual test price decline of 3% annually to ~\$135 by 2020. Hemostasis tests contribute nearly \$27MM in revenues or about 9% of total revenues. In this case, we assume a 5.0x EV/sales multiple to reflect higher growth potential and assume a fully loaded share base and 10% discount rate to arrive at a bull price of \$45.00.

We value our bear case on 2017 revenues assuming that commercial uptake of the T2candida panels is slower than expected and the launches of the T2Bacteria and hemostasis panels are delayed beyond 2017. We forecast only 90% of penetration for T2candida panel from base case so 121 sites +, although pricing stays consistent with the base case. We utilize a 2.5x EV/sales multiple in this lower growth and greater commercial uncertainty scenario and assume a fully loaded share base and 10% discount rate to arrive at a bear price of \$9.00.

Exhibit 7: Key valuation overview

	Bull	Base	Bear
<i>Revenue year</i>	<i>2020</i>	<i>2017</i>	<i>2017</i>
Revenue	305,475	115,352	85,731
Revenue multiple	5.0x	3.9x	2.5x
Forward value	1,527,376	449,874	214,327
Discount rate	10%	10%	10%
Years	5.0	2.0	2.0
AV	901,900	364,398	173,605
2015 net debt	(2,073)	(2,073)	(2,073)
Equity	903,974	366,472	175,679
Divide by: # of shares		20.04	
Implied price	\$ 45.11	\$ 18.29	\$ 8.77

Source: Morgan Stanley Research estimates.

Company & Technology Overview

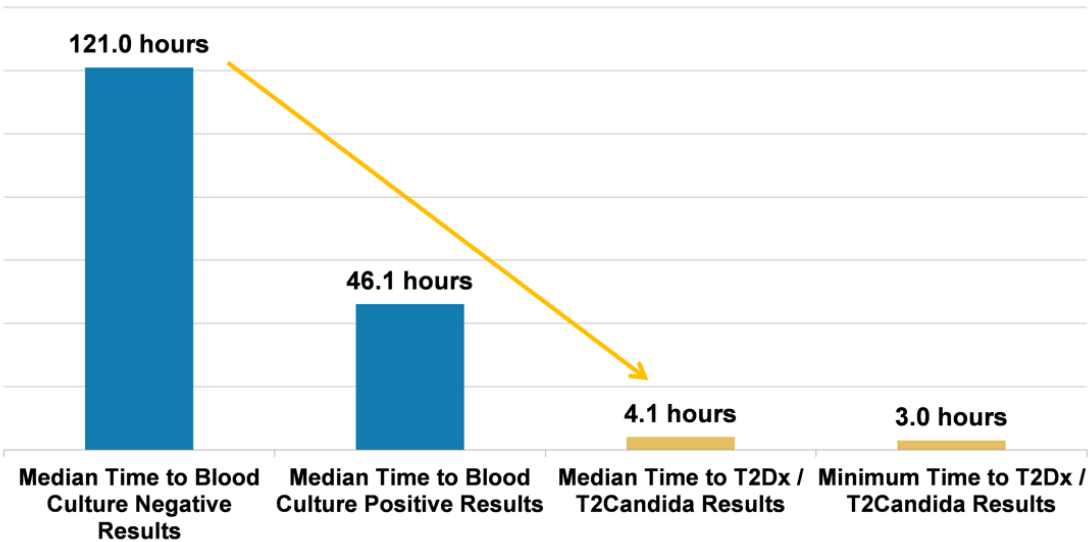
Company Description

T2 Biosystems is a diagnostics company that seeks to improve patient outcomes and lower healthcare costs in the blood infection and hemostasis markets employing miniaturized PCR (a method for amplifying DNA across several orders of magnitude) and magnetic resonance (MR) technology for the analysis of whole blood samples. The company is currently awaiting FDA approval on its first assay, candida, to address the large, unmet clinical need for more rapid sepsis diagnosis, utilizing its T2Dx system, which offers a highly sensitive and specific diagnosis of sepsis in as little as three hours, curbing unnecessary drug treatment for uninfected patients and accelerating appropriate therapies for patients who have sepsis. The company also plans to add its T2Bacteria panel to penetrate the bacterial sepsis market by 2016 and later launch its T2Stat and T2HemoStat platforms for more rapid & accurate diagnosis of hemostasis.

The T2 Proposition

T2Dx is an easy-to-use, fully automated, bench-top instrument that is capable of running a broad range of diagnostic panel types from patient sample input to result, eliminating the need for manual work flow steps such as pipetting that can introduce risks of cross-contamination. The core incremental value proposition of the T2 system is its speed, as it has been shown in clinical trials to identify species of candida from a whole blood sample in three hours. Early diagnosis of sepsis would drive more effective therapies and cost savings, but the standard of care for the identification of pathogens that cause sepsis is blood culture-based, which typically requires two to five days to generate results.

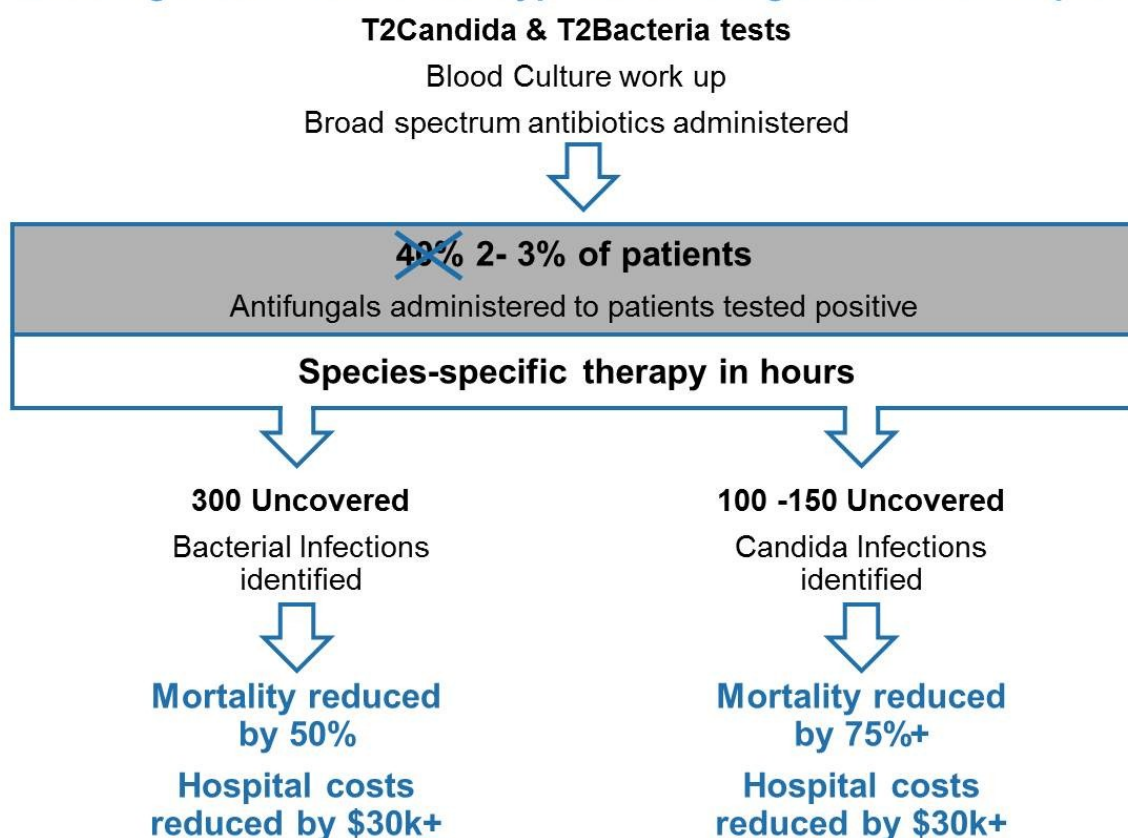
Exhibit 8: Time to result demonstrates potential to dramatically improve care



Source: Company data.

T2's first application, the T2candida panel, will have the ability to rapidly identify the five clinically relevant species of candida, a fungal pathogen known to cause sepsis. T2 completed its pivotal clinical trial for T2Dx and T2candida in 1H14, and filed for approval with the FDA in May 2014. The T2 candida clinical trial experience suggests that its use will drive the use of anti-fungals from 40% to ~2-3% of patients, saving \$500 per patient and the toxicity associated with antifungal drugs for those who otherwise would have received antifungal therapy. On a nationwide basis, applying the T2candida assay could save \$1.3 billion annually in drug spend on ~2.5 million patients per year. T2 estimates the total savings from the use of the candida assay at ~\$30,000 per patient, driven by reduced length of stay in hospital and ICU.

5,000 High-risk Patients in a Hypothetical Large Academic Hospital:



Source: Company data.

Technology Overview

T2Dx employs miniaturized PCR (a method for amplifying DNA across several orders of magnitude) and magnetic resonance (MR) technology for the analysis of whole blood samples. T2's T2MR detection technology analyzes how water molecules react in the presence of magnetic fields and is highly sensitive to changes in a blood sample samples at a molecular level. T2MR analysis enables the detection of pathogens, biomarkers, and other abnormalities in unpurified patient sample types, and can detect cellular targets at limits of detection as low as one colony forming unit per milliliter (CFU/mL). We believe T2 is the only company employing MR technology for this application, and note that the company has a substantial IP portfolio and an exclusive license from Massachusetts General Hospital for the core technology.

Competing technologies tend to rely on blood culture and in some cases polymerase chain reaction, or PCR, where 90% or more of the target can be lost. T2 can eliminate these steps because the T2 relaxation signal detected by MR is not compromised or disrupted by the sample background (including blood, which disrupts fluorescent tests), even the highly complex sample background that is present after a target amplification process, such as thermocycling. This enables T2MR's low limit of detection, such as 1 CFU/mL, compared to the

100 to 1,000 CFU/mL typically required for PCR-based methods.

T2 has validated the T2candida assay in a 1,500 sample prospective study and a 300-sample contrived study, demonstrating over 80% sensitivity and over 90% specificity across a range of species of fungal infections and validating the system’s analytical process takes only three hours from sample to answer. The company has a constructive ongoing dialogue with the FDA since filing for approval in May of 2014 and expects FDA approval in November of 2014 followed by commercial launch in 1H15.

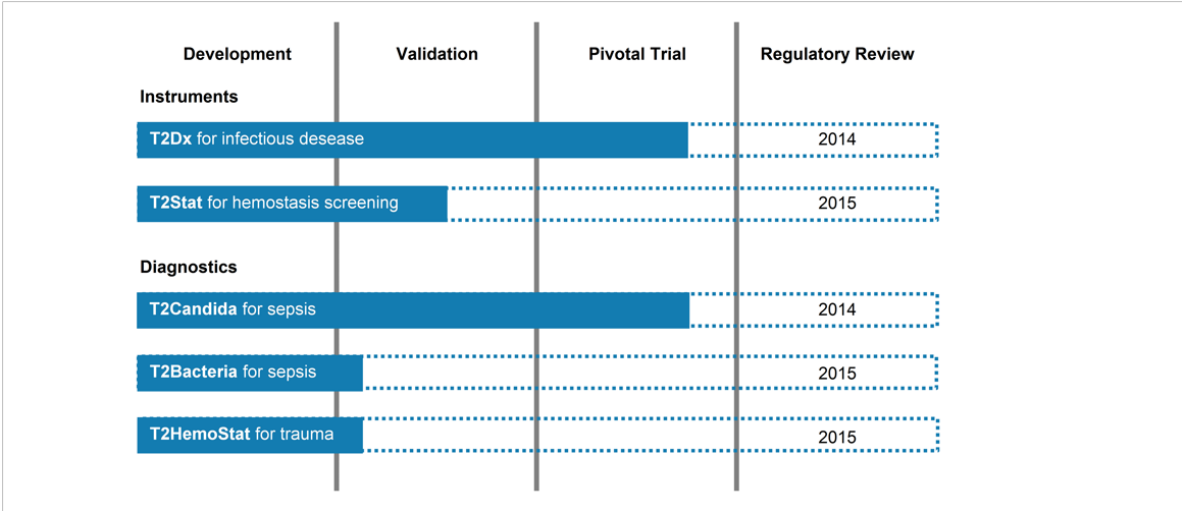
Pipeline: Test Menu Expansion

While T2’s first application is for the detection of candida, T2 expects to initiate clinical trials for T2Bacteria in the second half of 2015, rounding out the sepsis diagnosis toolkit. Bacterial infections are a more common driver of sepsis than are candida infections by at least a factor of three, making the bacterial panel a larger driver of the commercial potential of the T2Dx beginning at the time of launch in 2H216.

In 2017, T2 plans to launch a new platform through a distribution partner, the smaller and simpler T2Stat platform that will offer a range of hemostasis measurements in as little as 20 minutes, including platelet function, clotting time, and clot degradation, also known as fibrinolysis. T2 expects to initiate a pivotal clinical trial for T2Stat and T2HemoStat in the first half of 2016. Impaired hemostasis is a smaller opportunity than sepsis, a life-threatening condition in which a patient is unable to promote the formation of blood clots to stabilize excessive bleeding. Within the broader population of patients with symptoms of impaired hemostasis, there are over three million trauma patients in the United States annually whose impairment frequently goes undetected during the initial hospitalization. Trauma patients with symptoms of impaired hemostasis have mortality rates of 45%, which can be reduced to 19% with more rapid delivery of therapy. Today, there is no hemostasis diagnostic method that can rapidly provide comprehensive results.

Our diligence on the hemostasis market found broad dissatisfaction with the currently available diagnostic options for hemostasis assessment and management. Physicians often struggle to assess what a patient needs in terms of blood management upon presentation, be it clotting factors, whole blood, or plasma. Assessment with thromboelastography (TEG) or LTA can be helpful, but users view it as time consuming, unwieldy, and often demanding of multiple measurements over time. Early testers of the T2HemoStat platform found it to be easier to use and more comprehensive, potentially driving faster detection and treatment, saving costs associated with complications and unnecessary blood administration.

Exhibit 9: T2 Bio product pipeline



Source: Company data.

Investment Debates Summary

Debate #1: Addressable Market Size

Market Debate: What is the potential total addressable market for T2?

Our View: Sepsis is the most costly hospital-treated condition in the US, driving \$20 billion of US hospital costs per year and a 30% mortality rate among the 1.35MM patients diagnosed out of 6.0-8.0MM patients per year who are at high risk. Application of T2 technology could drive 400-500 rapid diagnoses of sepsis in a single large academic hospital per year, driving over \$50K in drug cost reductions. Given that T2Dx system offers a highly sensitive and specific diagnosis of sepsis in as little as three hours, faster by 24 hours or more than the standard of care to facilitate better and less expensive treatments, we see a revenue opportunity based upon significant market share capture. While the candida sepsis market is only 25% of the total sepsis market (based on patient volume), we see significant TAM expansion upon T2's launch of T2Bacteria in the second half of 2016. Furthermore, our diligence on the hemostasis market found broad dissatisfaction with the currently available diagnostic options for hemostasis assessment and management, although this is a longer-term growth catalyst.

Debate #2: FDA Approval

Market Debate: Can T2 successfully navigate the FDA approval process for candida, its instruments and future assays?

Our View: We expect T2candida market entry in Q12015, which assumes FDA approval in November 2014. Given the clinical data available on the system and considering that the system is a diagnostic tool rather than a drug or implantable device, we feel comfortable that any challenges in the FDA process would more likely be related to timeline rather than approval. We believe the FDA is positively predisposed on the T2 system given the ongoing dialogue with the company and the FDA's recognition of the scale of the unmet need for sepsis diagnosis. Timelines for the bacteria panel launch (2H16) and hemostasis system launch (2017) are more difficult to evaluate given the lack of pivotal data, but preliminary data are promising and we have seen no evidence to suggest that the technology would fare less well in these applications than in the evaluation of candida. Importantly, candida is a 5 species, multiplexed assay that provides comfort in the ability to scale into bacteria. We believe in both cases, the FDA process is likely to run more smoothly than for candida as the agency builds its familiarity with the technology and the team.

Debate #3: Sustainability of Market Position

Market Debate: The competitive threat cannot be overlooked, given the economic upside potential in addressing both patient care and cost issues in this opportunity

Our View: The landscape of potential competitors includes companies that are large and well funded, including Abbott, Roche, BioMerieux, and Genmark. Our diligence suggests there are no platforms that have demonstrated performance on whole blood that is comparable to the T2 candida dataset. Relative to any competitor uncovered in our diligence, T2 appears to be favorable on total time of analysis and sensitivity/specificity. While we believe T2 will be the only product on the market able to detect sepsis from whole blood through at least 2015 in the US, the longer term outlook is less clear. That said, we believe the integration of MR provides T2 with technical advantages the traditional PCR players do not have.

The Total Addressable Market Opportunity

Sepsis in the US

In 2013, the U.S. Department of Health and Human Services reported that sepsis is the most expensive hospital-treated condition in the United States, with an economic burden to hospitals exceeding \$20 billion annually, almost double that of heart attacks. Sepsis affects 1.5-2.0 million patients per year and kills 100,000 out of the 6.0-8.0 million who are tested and deemed at high risk, and 40% of these patients are being treated in less than 500 major US hospitals. Clinical literature estimates the cost per patient per case of sepsis treatment at \$130K, and the benefit of early and appropriate therapy bringing total costs to \$30K per patient. Each year, over 18 million cases of sepsis are diagnosed worldwide, with estimated mortalities exceeding five million patients, making it a leading cause of death worldwide.

Exhibit 10: T2MR targets the greatest unmet need in medical diagnosis: sepsis

Rank CCS category and name	Hospital costs, U.S. \$BB	National costs, %	Mortality rate, %
1 Sepsis	20.3	5.2	30%
2 Osteoarthritis	14.8	3.8	0.002%
3 Complication of device, implant or graft	12.9	3.3	5.70%
4 Liveborn	12.4	3.2	0.62%
5 Acute myocardial infarction	11.5	3	15.80%

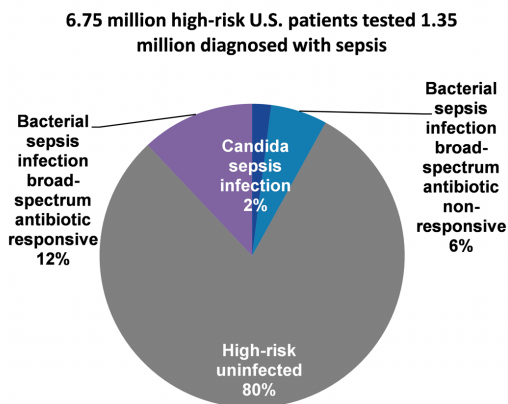
Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), Nationwide Inpatient Sample (NIS), 2011 Abbreviation: CCS, Clinical Classifications Software

Most commonly afflicting immunocompromised, critical care and elderly patients, sepsis is a severe inflammatory response to a bacterial or fungal infection, with a mortality rate of approximately 30%. The high cost of treating sepsis is primarily driven by the extended hospitalization of patients. The array of pharmacologic therapies for the treatment of the infections that cause sepsis is substantial, but clinicians need to more rapidly identify the specific sepsis-causing pathogens in order to make more informed, targeted treatment decisions. Among patients with sepsis, less than half are treated optimally.

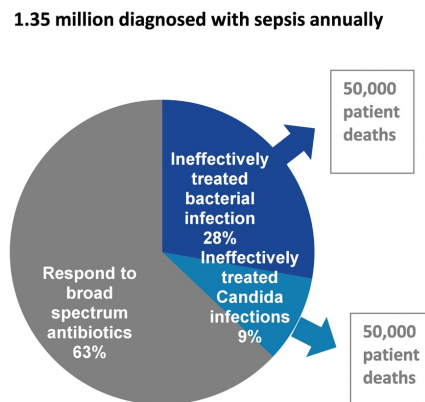
Hospitals among the 500 largest in the US treat an average of 5,000 patients per year deemed to be at risk for candidemia, a fungal infection and the cause of 25% of cases of sepsis. On average, 40% of these high risk patients will be put on antifungal drugs for up to 14 days, 95% of these patients are unnecessarily treated with antifungals at an avoidable cost of over \$500. Total unnecessary antifungal spend reaches ~\$1.4bn annually in the US. In addition to reduced drug costs, early diagnosis would drive cost savings via reduced hospital resistance, reduced procedures, fewer diagnostics, fewer readmissions and more effective treatment regimens.

T2's first application, the T2candida panel, will have the ability to rapidly identify the five clinically relevant species of candida, a fungal pathogen known to cause sepsis. T2 completed its pivotal clinical trial for the T2Dx instrument and T2Candida assay in 1H2014, and filed for approval with the FDA in May 2014. The T2candida clinical trial experience suggests that its use will drive the use of anti-fungals from 40% to ~2%-3% of patients, saving \$500 per patient and the toxicity associated with antifungal drugs for those who otherwise would have received antifungal therapy. On a nationwide basis, applying the T2 candida assay could save \$1.3 billion annually in drug spend on ~2.5 million patients per year. T2 estimates the total savings from the use of the candida assay at ~\$30,000 per year, driven by reduced length of stay in hospital and ICU.

While T2's first application is for the detection of candida, T2 expects to initiate clinical trials for T2Bacteria in the

Exhibit 12: The landscape for high-risk patients that could benefit from testing

Source: Company data, Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), Nationwide Inpatient Sample (NIS), 2011

Exhibit 11: The landscape of patients infected with sepsis and patient care outcomes

Source: Agency for Healthcare Research and Quality (AHRQ), Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project (HCUP), Nationwide Inpatient Sample (NIS), 2011.

sepsis than are candida infections by at least a factor of three, making the bacterial panel a larger driver of the commercial potential of the T2Dx system upon launch in 2H16. Testing of all 6-7mn high risk US patients for sepsis using the T2Bacteria panel and then the T2candida panel when appropriate yields an annual total addressable market opportunity of ~\$2 billion only considering revenues from the panels at our estimated price of \$170, on average per test, and exclusive of instrument and maintenance revenues.

Beyond Sepsis: Test Menu Pipeline

In 2017, T2 plans to launch a new platform through a distribution partner, the smaller and simpler T2Stat platform that will offer a range of hemostasis measurements in as little as 20 minutes, including platelet function, clotting time, and clot degradation, also known as fibrinolysis. T2 expects to initiate a pivotal clinical trial for T2Stat and T2HemoStat in the first half of 2016. Impaired hemostasis is a smaller opportunity than sepsis, a life-threatening condition in which a patient is unable to promote the formation of blood clots to stabilize excessive bleeding. Within the broader population of patients with symptoms of impaired hemostasis, there are over three million trauma patients in the United States annually whose impairment frequently goes undetected during the initial hospitalization. Trauma patients with symptoms of impaired hemostasis have mortality rates of 45%, which can be reduced to 19% with more rapid delivery of therapy. Today, there is no hemostasis diagnostic method that can rapidly provide comprehensive results.

Our diligence on the hemostasis market found broad dissatisfaction with the currently available diagnostic options for hemostasis assessment and management. Physicians often struggle to assess what a patient needs in terms of blood management upon presentation, be it clotting factors, whole blood, or plasma. Assessment with thromboelastography or LTA can be helpful, but users view it as time consuming, unwieldy, and often demanding of multiple measurements over time. Early testers of the T2 hemo platform found it to be easier to use and more comprehensive, potentially driving faster detection and treatment, saving costs associated with complications and unnecessary blood administration.

Competitive Positioning

We believe T2 is the only company employing MR technology for this application, and note that the company has a substantial IP portfolio and an exclusive license from Massachusetts General Hospital for the core technology. Competing technologies tend to rely on blood culture and in some cases polymerase chain reaction, or PCR, where 90% or more of the target can be lost. T2 can eliminate these steps because the T2 relaxation signal detected by MR is not compromised or disrupted by the sample background (including blood, which disrupts fluorescent tests), even the highly complex sample background that is present after a target amplification process, such as thermocycling. This enables T2MR's low limit of detection, such as 1 CFU/mL, compared to the 100 to 1,000 CFU/mL typically required for PCR-based methods.

T2's technology has been validated in conjunction with its T2candida assay in a 1,500 patient prospective study and a 300 sample contrived study, demonstrating over 80% sensitivity and over 90% specificity across a range of species of fungal infections and validating the system's analytical process takes only three hours from sample to answer. The company has a constructive ongoing dialogue with the FDA since filing for approval in May of 2014 and expects FDA approval in November of 2014 followed by commercial launch in 1H2015.

Exhibit 13: High levels of sensitivity demonstrated

Sensitivity by Test		
		95% Confidence Interval
A/T (C. albicans / C. tropicalis)	96/104 (92.3%)	85.4 - 96.6%
P (C. parapsilosis)	49/52 (94.2%)	84.1 - 98.8%
K/G (C. krusei / C. glabrata)	89/101 (88.1%)	80.2 - 93.7%
Total	234/257 (91.1%)	86.9 - 94.2%

Source: Company data.

Exhibit 14: In addition to high specificity

Specificity by Test		
		95% Confidence Interval
A/T (C. albicans / C. tropicalis)	1679/1697 (98.9%)	98.3 - 99.4%
P (C. parapsilosis)	1736/1749 (99.3%)	98.7 - 99.6%
K/G (C. krusei / C. glabrata)	1699/1700 (99.9%)	99.7 - 100.0%
Total	5114/5146 (99.4%)	99.1 - 99.6%

Source: Company data.

The company plans to offer customers both a reagent rental approach and an instrument acquisition approach for acquiring the T2 system, and we expect early adopters to favor the direct purchase approach given their higher testing volumes. Our pricing assumption at ~\$170 per test is in part a reflection of this expectation, as reagent rental customers will likely pay a higher rate, closer to \$200 per test. List pricing on the instrument is planned at \$95,000, though direct sale average pricing is likely to land closer to \$60,000. Our diligence on pricing found a willingness among customers to pay \$100+ despite limited familiarity with the system and the clinical data in many cases, and T2's own survey efforts pointed to support for pricing over \$150 per test. A third party, independent study of 25 Microbiology Lab Directors commissioned by T2 demonstrated a willingness to pay an average of \$241 for T2candida, a higher figure than we anticipate but nonetheless supportive of our forecasts. While the T2 price structure is higher than alternatives, we believe the speed of the test will support premium pricing relative to competing offerings from Cepheid, BioFire, or Nanosphere (each is \$50+ per test).

While we believe T2 will be the only product on the market able to detect sepsis from whole blood through at least 2015 in the US, the longer term outlook is less clear. The landscape of potential competitors includes companies that are large and well funded, including Abbott, Roche, BioMerieux, and Cepheid. That said, our diligence suggests there are no platforms that have demonstrated performance on whole blood that is comparable to the T2candida dataset. Relative to any competitor uncovered in our diligence, T2 appears to be favorable on total time of analysis and sensitivity/specificity.

The system closest to the market for sepsis diagnosis on whole blood appears to be Abbott's IRIDICA platform, formerly known as PLEX-ID. We found a high degree of enthusiasm for the IRIDICA platform in our diligence, though the early data from the RADICAL trial are limited and the system does not appear capable of delivering

results as quickly as the T2 platform (8 hours vs. 3 hours) or with as high sensitivity and specificity. The system's sample prep and PCR are fairly complex and require five hours of prep time, though this figure could come down over time. The system's strength is likely to be its high throughput, making it most applicable for high volume standardized applications including routine monitoring as opposed to rapid turnaround tests for as sepsis. Abbott plans to launch in Europe in 2H2014 but has not provided specific timing expectations for entry into the US. Pricing per test on the IRIDICA platform is also unknown, though we would expect it to less than \$100 per test. Enthusiasm in the clinical setting for MALDI systems from Bruker and Biomerieux is notable, but we believe these systems may not be suitable for detection on whole blood and do not expect progress in this area for two+ years.

Financial Overview & Key Risks

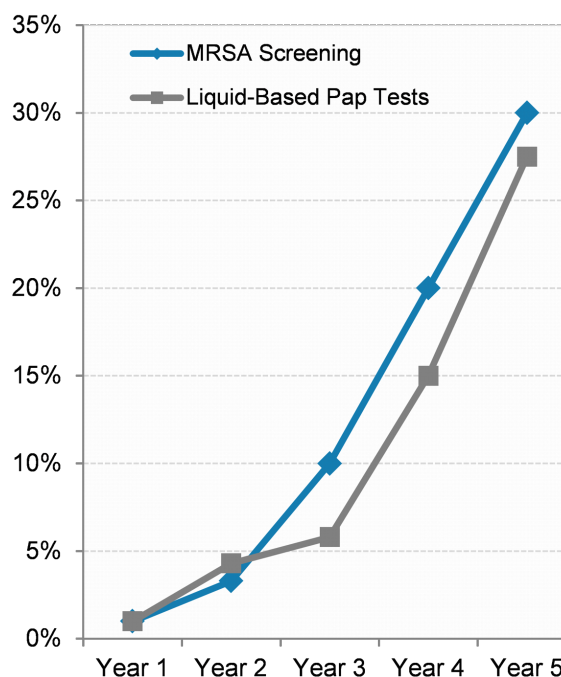
Our T2 forecasts are based on a product line build-up detailed in the Financials section. The forecasts reflect a series of key assumptions on timelines, pricing, hospital penetration, and instruments per hospital site. Key considerations include:

1) Timeline: We expect T2candida market entry in Q12015, which assumes FDA approval in November of 2014. Given the clinical data available on the system and considering that the system is a diagnostic tool rather than a drug or implantable device, we feel comfortable that any challenges in the FDA process would more likely be related to time than approval. We believe the FDA is positively predisposed on the T2 system given the ongoing dialogue with the company and the FDA's recognition of the scale of the unmet need for sepsis diagnosis. Timelines for the bacteria panel launch (2H2016) and hemostasis system launch (2017) are more difficult to evaluate given the lack of pivotal data, but preliminary data are promising and we have seen no evidence to suggest that the technology would fare less well in these applications than in the evaluation of candida. We believe in both cases, the FDA process is likely to run more smoothly than for candida as the agency builds its familiarity with the technology and the team.

2) Penetration of the customer base: T2 will focus selling efforts on the top 450 hospitals in the US, with the highest testing volumes (over 5,000 tests/year) and will additionally focus on the 200 highest testing sites within the top 450 (as high as 8,000 tests/year) within the first two years prior to the bacterial panel launch. While the unmet need in sepsis is high and the platform is promising, we expect a slower ramp ahead of the bacterial panel launch, given the relatively limited frequency of the presentation of candida infections. We forecast penetration into 134 sites by the end of 2016 and expect the average site to have 1.5 systems given that many early adopters will be in hospital networks with multiple labs and locations. We forecast a ramp to 253 sites by the end of 2018, with candida and bacteria driving uptake into a wider range of centers.

3) Pricing: T2 plans to offer customers both a reagent rental approach and an instrument acquisition approach for acquiring the T2 system, and we expect early adopters to favor the direct purchase approach given their higher testing volumes. Our pricing assumption at ~\$170 per test is in part a reflection of this expectation, as reagent rental customers will likely pay a higher rate, closer to \$200 per test. List pricing on the instrument is planned at \$95,000, though direct sale average pricing is likely to land closer to \$60,000. Our diligence on pricing found a willingness among customers to pay \$100+ despite limited familiarity with the system and the clinical data in many cases, and T2's own survey efforts pointed to support for pricing over \$150 per test. A third party, independent study of 25 Microbiology Lab Directors commissioned by T2 demonstrated a willingness to pay an average of \$241 for T2candida, a higher figure than we anticipate but nonetheless supportive of our forecasts. While the T2 price structure is higher than alternatives, we believe the speed of the test will support premium pricing relative to competing offerings from Cepheid, BioFire, or Nanosphere (each is \$50+ per test).

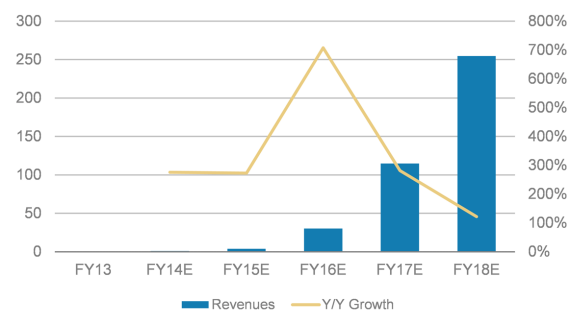
Exhibit 15: Predicate diagnostics and their historical US market penetration



Source: Company data.

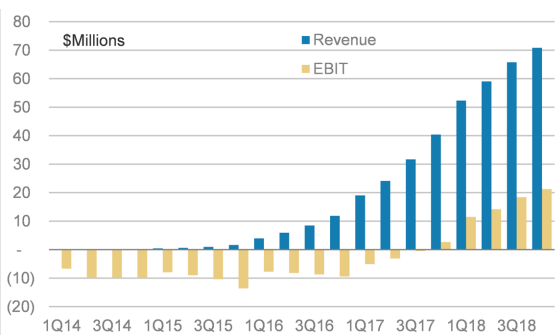
4) The P&L and balance sheet: Our T2 margin forecasts call for a ramp up in R&D over time as we anticipate further investments in new platform applications beyond hemostasis and bacteria. On the SG&A front, a broader service, selling, and promotional effort over time likely keeps the company unprofitable on the EBIT line until revenues approach \$40MN per quarter, likely 4Q2017. Given that the company has access to a \$30MN revolving credit line in its current phase, we do not anticipate future capital raises ahead of cash flow profitability in 2017. At the time the company turns profitable, we model an additional 2mn shares of dilution due to outstanding options. We do not expect the company to pay cash taxes for the foreseeable future, given the company has an existing \$60MN net operating loss accrual, which we expect to grow to reach +\$150MM in 2017.

Exhibit 16: Forecasted revenue progression



Source: Company data, Morgan Stanley Research.

Exhibit 17: Forecasted EBIT and revenue



Source: Company data, Morgan Stanley Research .

Financials

Exhibit 18:

Dollars in 000s, except per share data

Fiscal year ends Dec 31

	2012A	2013A	2014E					2015E	2016E	2017E	2018E
	2012A	2013A	Mar-14	Jun-14	Sep-14	Dec-14	2014E	2015E	2016E	2017E	2018E
Revenue, net	\$19	\$266	\$250	\$250	\$250	\$250	\$1,000	\$3,768	\$30,269	\$115,352	\$247,975
Cost of Goods Sold	\$0	\$0	\$0	\$175	\$175	\$175	\$525	\$3,014	\$12,865	\$36,913	\$69,433
Gross Profit	\$19	\$266	\$250	\$75	\$75	\$75	\$475	\$754	\$17,405	\$78,440	\$178,542
R&D	\$11,727	\$14,936	\$5,065	\$4,500	\$4,525	\$4,500	\$18,590	\$18,839	\$24,216	\$34,606	\$34,717
SG&A	\$2,945	\$5,022	\$1,842	\$5,500	\$5,500	\$5,500	\$18,342	\$22,830	\$27,191	\$49,742	\$78,475
Total Operating Expenses	\$14,672	\$19,958	\$6,907	\$10,000	\$10,025	\$10,000	\$36,932	\$41,669	\$51,406	\$84,348	\$113,192
EBITDA	(\$14,082)	(\$19,108)	(\$6,513)	(\$9,723)	(\$9,747)	(\$9,721)	(\$35,704)	(\$40,075)	(\$32,943)	(\$5,908)	\$65,350
Operating Income	(\$14,653)	(\$19,692)	(\$6,657)	(\$9,925)	(\$9,950)	(\$9,925)	(\$36,457)	(\$40,915)	(\$34,001)	(\$5,908)	\$65,350
Interest Income (Exp)	(\$154)	(\$403)	(\$86)	\$2	\$67	\$137	\$119	\$195	(\$1,339)	(\$3,399)	(\$1,479)
Other Income (Expense)	\$352	(\$515)	\$73	\$73	\$73	\$73	\$292	\$292	\$292	\$292	\$292
Total Non-op. Expense	\$198	(\$918)	(\$13)	\$75	\$140	\$210	\$411	\$487	(\$1,047)	(\$3,107)	(\$1,187)
Pre-Tax Income	(\$14,455)	(\$20,610)	(\$6,670)	(\$9,850)	(\$9,810)	(\$9,715)	(\$36,046)	(\$40,428)	(\$35,048)	(\$9,015)	\$64,163
Tax Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Income Taxes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NOL Add	(\$14,455)	(\$20,610)					(\$36,046)	(\$40,428)	(\$35,048)	(\$9,015)	\$0
NOL Balance	(\$14,455)	(\$35,065)					(\$71,111)	(\$111,539)	(\$146,587)	(\$155,602)	(\$155,602)
Net Income	(\$14,455)	(\$20,610)	(\$6,670)	(\$9,850)	(\$9,810)	(\$9,715)	(\$36,046)	(\$40,428)	(\$35,048)	(\$9,015)	\$64,163
Gross Margin	100%	100%	100%	30%	30%	30%	48%	20%	57.5%	68.0%	72.0%
SG&A	15500%	1888%	737%	2200%	2200%	2200%	1834%	606%	89.8%	43.1%	31.6%
R&D	61721%	5615%	2026%	1800%	1810%	1800%	1859%	500%	80.0%	30.0%	14.0%
Operating Income	-77121%	-7403%	-2663%	-3970%	-3980%	-3970%	-3646%	-1086%	-112.3%	-5.1%	26.4%
Pre-Tax Income	-76079%	-7748%	-2668%	-3940%	-3924%	-3886%	-3605%	-1073%	-115.8%	-7.8%	25.9%
Net Income	-99300%	-10345%	-3430%	-4703%	-4686%	-4649%	-4367%	-1275%	-141.0%	-14.4%	22.8%
Growth Rates											
Sales		1300%	NM	NM	NM	NM	276%	277%	703%	281%	115%
Gross Profit		1300%	NM	NM	NM	NM	79%	59%	2210%	351%	128%
SG&A		71%	77%	NM	NM	NM	265%	24%	19%	83%	58%
R&D		27%	42%	NM	NM	NM	24%	1%	29%	43%	0%
Operating Income		34%	45%	NM	NM	NM	85%	12%	-17%	-83%	-1206%
EPS		42%	46%	NM	NM	NM	-7%	-34%	-11%	-62%	-401%

Source: Company data, Morgan Stanley Research

Exhibit 19: T2 product revenues

Dollars in 000s, except per share data

	2014E	2015E	2016E	2017E	2018E
	2014E	2015E	2016E	2017E	2018E
T2 Candida Revenue					
Test Revenue					
Direct Customer Test Price		\$ 162	\$ 165	\$ 168	\$ 171
Reagent Rental Test Price		\$ 162	\$ 165	\$ 168	\$ 171
T2 Candida Tests		9,700	139,520	476,254	622,223
T2 Candida Revenue		1,571,764	23,007,039	79,994,027	106,486,619
Instrument Revenue					
Total Candida Testing Sites EOP		38	134	144	193
New Sites		38	96	-	-
Instruments per site		1.5	1.5	1.5	1.5
Sites Adopting Candida & Bacteria		-	-	11	49
Instruments per site		-	-	-	-
T2 Instruments - new		58	144	-	-
Instrument Price		\$ 60,000	\$ 58,500	\$ -	\$ -
T2Dx Instrument Revenue		696,000	1,684,800	-	-
Support Revenue					
HW maintenance		12%	12%	12%	12%
Support Revenue		-	19,875	49,152	-
Grand Total		-	42,120	192,692	276,110
Cumulative		-	42,120	122,655	138,055
Total T2 Candida Revenue		\$2,267,764	\$24,769,498	\$80,240,346	\$106,831,756

T2 Bacteria					
Test Revenue					
Direct Customer Test Price				\$ 169	\$ 171
Reagent Rental Test Price				\$ 169	\$ 171
T2 Bacteria Tests				85,888	583,162
T2 Bacteria Revenue				14,486,919	99,957,134
Instrument Revenue					
Total Sites EOP		-	-	109	253
Sites Converted from Candida				87	46
Additional Instruments per site	1.0	1.0	1.0	1.0	1.0
New Sites				22	98
Instruments per site		2.0	2.0	2.0	2.0
T2 Instruments- new				131	197
Instrument Price		\$ 60,000	\$ 58,500	\$ 57,038	\$ 55,612
T2Dx Instrument Revenue				1,494,384	2,191,096
Support Revenue					
HW maintenance	12%	12%	12%	12%	12%
Support Revenue				-	43,644
Grand Total				-	96,497
Cumulative				-	72,873
Total T2 Bacteria Revenue	\$0	\$0	\$0	\$15,981,303	\$102,273,956

Hemostasis revenue					
Test Revenue					
Level I/II Test Price			\$ 35	\$ 33	\$ 32
Level III/IV Test Price			\$ 35	\$ 33	\$ 32
Level I/II Tests/year	-	-	-	30,303	169,571
Level III/IV Tests/year	-	-	-	7,938	81,648
Level I/II Revenue	-	-	-	1,007,579	5,356,333
Level III/IV Revenue	-	-	-	263,939	2,579,056
Hemostasis Test Rev.	-	-	-	1,271,518	7,935,389
Instrument Revenue					
Level I/II Sites	-	-	-	24	14
Level I/II Instruments per site	-	4	4	4	4
Level I/II Instruments -- new	-	-	-	96	57
Level III/IV Sites	-	-	-	123	228
Level III/IV Instruments per site	-	2	2	2	2
Level III/IV Instruments -- new	-	-	-	245	455
Level I/II Instrument Price			\$ 15,000	\$ 14,250	\$ 13,538
Level III/IV Instrument Price			\$ 15,000	\$ 14,250	\$ 13,538
Level I/II Instrument Rev.	-	-	-	1,368,000	774,345
Level III/IV Instrument Rev.	-	-	-	3,491,250	6,159,563
Hemostasis Instrument Rev.	-	-	-	4,859,250	6,933,908
Hemostasis total revenue	\$0	\$0	\$0	\$6,130,768	\$14,869,296

Other Revenue					
Partner & Grant	1,000,000	1,000,000	2,000,000	3,000,000	4,000,000
International Rev	-	500,000	3,500,000	10,000,000	20,000,000
Total other revenue	\$1,000,000	\$1,500,000	\$5,500,000	\$13,000,000	\$24,000,000

Source: Company data, Morgan Stanley Research.

Exhibit 20: T2 balance sheet

*Dollars in 000s, except per share data**Fiscal year ends Dec 31*

	2012A	2013A	2014E				2015E	2016E	2017E	2018E
			Mar-14	Jun-14	Sep-14	Dec-14	2015E			
ASSETS										
Cash & Cash Equivalents	\$9,709	\$30,198	\$23,698	\$14,670	\$60,271	\$48,737	\$48,737	\$3,599	\$1,977	\$6,735
Restricted Cash	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Prepaid Expenses & Other	\$60	\$195	\$247	\$247	\$247	\$247	\$247	\$247	\$247	\$247
Total Current Assets	\$9,849	\$30,393	\$23,945	\$14,917	\$60,518	\$48,984	\$48,984	\$3,846	\$2,224	\$6,982
PP&E, Net	\$1,195	\$1,118	\$1,237	\$1,060	\$883	\$703	\$703	\$240	\$2,209	\$11,556
Restricted Cash	\$340	\$340	\$340	\$340	\$340	\$340	\$340	\$340	\$340	\$340
Other	\$47	\$34	\$310	\$310	\$304	\$298	\$298	\$273	\$248	\$241
Total Assets	\$11,431	\$31,885	\$25,832	\$16,628	\$62,044	\$50,325	\$50,325	\$4,698	\$5,020	\$19,119
LIABILITIES										
Accounts Payable	\$571	\$943	\$1,035	\$48	\$48	\$48	\$48	\$358	\$1,370	\$3,514
Accrued Expenses	\$733	\$1,319	\$2,372	\$6,000	\$6,015	\$6,000	\$6,000	\$8,352	\$9,744	\$14,888
Current Portion of Borrowings	\$820	\$1,759	\$1,764	1,778.7	1,793.3	1,808.0	\$1,808	\$1,079	\$39,771	\$39,144
Current Portion of Deferred Rent	\$5	\$25	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30
Total Current Liabilities	\$2,129	\$4,046	\$5,201	\$7,857	\$7,886	\$7,886	\$7,886	\$9,818	\$50,914	\$57,577
Notes Payable	\$5,058	\$3,299	\$2,855	\$2,399	\$1,950	\$1,501	\$1,501	\$447	\$121	\$0
Deferred Rent	\$70	\$45	\$35	\$35	\$35	\$35	\$35	\$35	\$35	\$35
Warrants to Purchase Redeemable Securi	\$695	\$1,225	\$1,152	\$1,152	\$1,152	\$1,152	\$1,152	\$1,152	\$1,152	\$1,152
Total Liabilities	\$7,952	\$8,615	\$9,243	\$11,443	\$11,023	\$10,573	\$10,573	\$11,452	\$52,222	\$58,764
Redeemable Convertible Preferred Stock	\$66,137	\$112,813	\$114,719	\$114,719	\$114,719	\$114,719	\$114,719	\$114,719	\$114,719	\$114,719
EQUITY										
Common Stock	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2
Additional Paid in Capital	\$0	\$0	\$0	\$352	\$57,905	\$58,257	\$58,257	\$59,803	\$62,027	\$86,223
Retained Earnings	(\$62,660)	(\$89,545)	(\$98,132)	(\$109,888)	(\$121,605)	(\$133,226)	(\$133,226)	(\$181,278)	(\$223,950)	(\$240,589)
AOCI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Stockholders' Equity	(\$62,658)	(\$89,543)	(\$98,130)	(\$109,534)	(\$63,697)	(\$74,967)	(\$74,967)	(\$121,473)	(\$161,921)	(\$154,364)
Total Liabilities & Equity	\$11,431	\$31,885	\$25,832	\$16,628	\$62,044	\$50,325	\$50,325	\$4,698	\$5,020	\$19,119

Source: Company data, Morgan Stanley Research.

Exhibit 21: T2 cash flow statement

Dollars in 000s, except per share data

Fiscal year ends Dec 31

	2012A	2013A	2014E				2015E	2016E	2017E	2018E
			Mar-14	Jun-14	Sep-14	Dec-14				
OPERATING										
Net Income	(14,455)	(20,610)	(6,920)	(11,756)	(11,716)	(11,621)	(42,014)	(48,052)	(42,672)	(16,639)
Depreciation & Amortization	571	584	144	202	203	204	753	840	1,058	2,188
Stock Based Compensation	403	578	239	352	353	352	1,296	1,546	2,224	4,196
Noncash Interest Expense	46	44	11	-	6	6	24	25	25	6
Noncash Warrant Expense	81	-	-	-	-	-	-	-	-	-
Change in Fair Value of Warrants	(132)	530	(73)	-	-	-	(73)	-	-	-
Loss on Disposal of Asset	-	6	-	-	-	-	-	-	-	-
Stock-based License Fees	-	-	-	-	-	-	-	-	-	-
Deferred Rent	15	(5)	(6)	-	-	-	(6)	-	-	-
Changes in Operating Assets & Liabilities	168	820	814	2,641	14	(15)	3,455	2,662	2,404	7,289
Other	-	-	-	-	-	-	-	-	-	-
Net Cash Provided by Operating Activities	(13,303)	(18,053)	(5,791)	(8,562)	(11,140)	(11,074)	(36,566)	(42,979)	(36,961)	(2,960)
INVESTING										
Purchase of PP&E	(283)	(513)	(263)	(25)	(25)	(25)	(338)	(377)	(3,027)	(11,535)
Decrease (increase) in Restricted Cash	-	80	-	-	-	-	-	-	-	-
Net Cash Used in Investing Activities	(283)	(433)	(263)	(25)	(25)	(25)	(338)	(377)	(3,027)	(11,535)
FINANCING										
Proceeds from Issuance of Redeemable Convertible f	-	39,768	-	-	-	-	-	-	-	-
Proceeds from Issuance of Common Stock and Stock	1	55	-	-	57,200	-	57,200	-	-	20,000
Proceeds from Issuance of Restricted Stock	-	-	-	-	-	-	-	-	-	-
Dividends Paid	-	-	-	-	-	-	-	-	-	-
Proceeds from Issuance / (Drawdown) Revolver	4,924	-	-	-	-	-	-	39,420	(402)	(43,220)
Repayments of Note Payable	(374)	(848)	(446)	(441)	(435)	(435)	(1,757)	(1,783)	(1,054)	(345)
Net Cash From Financing Activities	4,551	38,975	(446)	(441)	56,765	(435)	55,444	(1,783)	38,366	19,253
Net Change in Cash	(\$9,035)	\$20,489	(\$6,500)	(\$9,028)	\$45,601	(\$11,534)	\$18,539	(\$45,138)	(\$1,622)	\$4,758
Cash and Cash Equivalents (BOP)	18,744	9,709	30,198	23,698	14,670	60,271	30,198	48,737	3,599	1,977
Cash and Cash Equivalents (EOP)	\$9,709	\$30,198	\$23,698	\$14,670	\$60,271	\$48,737	\$48,737	\$3,599	\$1,977	\$6,735
Financial Metrics										
Free Cash Flow (FCF)	(13,586)	(18,566)	(6,054)	(8,587)	(11,165)	(11,099)	(36,904)	(43,355)	(39,988)	(14,495)
FCF per share	(6)	(8)	(3)	(4)	(2)	(2)	(9)	(6)	(6)	(2)
Free Cash Flow Yield	(0)	(1)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)

Source: Company data, Morgan Stanley Research

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	COUNT	% OF TOTAL	COUNT	% OF TOTAL	% OF RATING CATEGORY
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Equal-weight/Hold	1378	44%	413	48%	30%
Not-Rated/Hold	108	3%	21	2%	19%
Underweight/Sell	566	18%	93	11%	16%
TOTAL	3,130		861		

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COMPANY (TICKER)	RATING (AS OF)	PRICE* (08/29/2014)
David R. Lewis		
T2 Biosystems Inc (TTOO.O)	E (09/01/2014)	\$23.21

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