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Foundation Medicine (FMI)

Updated: Opportunity Slightly Murkier Post Doc Calls - Reimbursement & Competition Dynamics Fine - Lowering Estimates & PT to \$44 from \$48

- Recent community-based oncology checks have yielded wide-ranging data, making it difficult to fully understand the opportunity. FMI is roughly two years into its launch within the community-based oncology setting and adoption remains in the early innings. Checks with several oncologists in the last few weeks show that FoundationOne awareness is high, but product utilization trends vary widely.
- Oncologist feedback suggests significant long-term belief in deep tumor profiling. Almost every community-based oncologist we have spoken with believes tumor sequencing is "the future" of oncology. Many oncologists believe that in 3-5 years, the vast majority of solid tumors and blood-based cancers will be sequenced in some way.
- FoundationOne use frequency seems more muted than we had expected. Based on recent checks with community-based oncologists, FoundationOne ordering frequency ranged from 0-4 per month. Extrapolating these data, it's conceivable that the current effective addressable annual solid tumor market is closer to 400k (>\$800 MM) vs. our prior estimate of 800k (>\$1.2 B).
- Reimbursement trends continue to be solid and competition appears nonexistent, in our view. Based on our recent conversations, community-based oncologists ordering the test are not hearing of significant pushback from private payors (consistent with the positive 2Q14 reimbursement trend). Additionally, there appears to be minimal competition from commercial players and virtually no community outreach from academic medical centers.
- Lowering PT to \$44 from \$48 to reflect lower 2016 estimates. We arrive at our new \$44 price target through an EV/sales valuation framework, assuming a ~9x (unchanged) 2016E EV/sales multiple of our new \$158 MM sales estimate (vs \$174 previously) with no cash and 29 MM shares outstanding, discounted back at 15%. This multiple is still justified to us given FMI's hyper growth profile (~76% 3-year CAGR, ~36% in 2016), cancer focus and the very early stages of adoption (~8% share in 2016). On a 2015E EV/sales multiple basis, shares of FMI are trading at a premium to the group median (5x vs 3.3x).

September 24, 2014

Price

\$20.10

Rating

OUTPERFORM

12-Month Price Target \$44 (from \$48)

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Company Information	
Shares Outst (M)	28
Market Cap (M)	\$568
52-Wk Range	\$19.51 - \$45
Cash/sh	3
Enterprise Value	469
LT Debt/Cap	0
2015 EV/Sales	5 x
Book Value/sh	3.8

Company Description

Foundation Medicine is the leading provider of test services to oncologists for the deep analysis of genetic alterations in cancer. These test results provide clinically actionable information for rare, recurring & stubborn solid tumors and hematologic cancers.

FYE Dec	2013A		2014E			2015E	
REV (M)	ACTUAL	CURR.	PREV.	CONS.	CURR.	PREV.	CONS.
Q1 Mar	\$5.2A	\$11.5A		\$11.5A	\$21.2E		\$22.4E
Q2 Jun	\$5.9A	\$14.5A		\$14.5A	\$24.2E		\$24.2E
Q3 Sep	\$8.2A	\$15.7E		\$15.7E	\$27.8E		\$27.5E
Q4 Dec	\$9.7A	\$18.5E		\$17.6E	\$31.2E		\$30.4E
Year*	\$29.0A	\$60.2E		\$58.8E	\$104.4E		\$109.8E
Change	172%	108%			74%		
	2013A		2014E			2015E	
EPS	ACTUAL	CURR.	PREV.	CONS.	CURR.	PREV.	CONS.
Q1 Mar	(\$0.64)A	(\$0.44)A		(\$0.44)A	(\$0.40)E		(\$0.42)E
Q2 Jun	(\$0.52)A	(\$0.49)A		(\$0.49)A	(\$0.39)E		(\$0.44)E
Q3 Sep	(\$0.44)A	(\$0.44)E		(\$0.48)E	(\$0.32)E		(\$0.32)E
Q4 Dec	(\$0.48)A	(\$0.44)E		(\$0.47)E	(\$0.31)E		(\$0.43)E
Year*	(\$2.08)A	(\$1.81)E		(\$1.88)E	(\$1.42)E		(\$1.50)E
P/E	NM	NM			NM		
Change	410%	-13%			-21%		



Source: Thomson Reuters

* Numbers may not add up due to rounding.

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Consensus estimates are from Thomson First Call.



Investment Thesis

FMI is a lab services company whose test menu is focused on the genetic analysis of rare, recurring and aggressive tumors. FMI's testing platform leverages next-generation sequencing (NGS) to identify clinically actionable genetic mutations within tumor cells. The company's two tests are FoundationOne, a pan-cancer panel for solid tumors, and FoundationOne Heme, a panel for hematological malignancies (i.e., leukemia, lymphoma & myeloma). These tests are targeted for use by academic and community-based oncologists, as well as biopharmaceutical companies for use in cancer therapeutic R&D. We believe FMI's FoundationOne test represents the first mover and highest-quality test commercially available for detailed genomic workup of tumors. We estimate the company's test volumes and sales will grow above 75% CAGR for the next three years and we believe FMI has many years of significant growth potential ahead as the opportunity in solid tumors, blood-based cancers and future cancer monitoring products is largely untapped. We believe investors are overly concerned about potential competitive threats and potential challenges to reimbursement near term which are overhangs on the shares currently. We believe continued strong execution by the company, lack of viable competition and continued reimbursement progress with large payors will drive solid financials, thus inspiring confidence and meaningful share price appreciation in the near term. We believe the late 2013 addition of high-quality sales reps, improving sales force efficiency and recent menu expansion, combined with growing physician awareness tees up a strong case for test volume outperformance in the near term. That said, we believe sentiment on shares is medium-low with reimbursement pessimism and fears around meaningful competition from ILMN and the company's FDA approved oncopanel strategy represent meaningful overhangs on shares that may be difficult to overcome near term. Based on the clinical outcomes data from US oncology, early traction with the higher priced FoundationOne heme test and recent physician checks, we believe average reimbursement is likely to become easier and may manifest in an innetwork contract in the next few quarters prior to clarity from Medicare.

Figure 1: Potential Catalysts

Catalyst	Timing
Earnings	Nov-14
Additional publications (ASH meeting)	2H14/2015
Additiona FoundationOne Solid enhancements	2015
Additional new product milestones	2015
In-Network Contracts with Large Payors	??
CMS coverage decision	??

Source: Company data, Wedbush Securities, Inc.

Risks

Risks to attainment of our price target include a fiercely competitive diagnostics and lab service market. Additionally, clinical adoption for new paradigms of testing in diagnostics is difficult to predict and private payor as well as Medicare reimbursement for FoundationOne and FoundationOne Heme could prove to be more challenging than expected.

FMI is dependent on Illumina (ILMN, OUTPERFORM) for equipment and other materials related to next-generation sequencing. If ILMN were to stop supplying the material or were to enter the space as a competitor, it could lead to an interruption in FMI's ability to perform its menu of tests. The near-term risk of this has been mitigated through a five-year supply agreement FMI signed with ILMN in July 2013.

The company operates a CLIA certified lab at their Cambridge, MA headquarters where they conduct *FoundationOne*. Operating as a CLIA lab allows the company to avoid the FDA regulatory 510(k)/PMA pathway for diagnostic devices. The FDA could more tightly regulate CLIA lab-based tests as medical devices, which would likely cause significant disruption to the business.



Figure 2: Income Statement 2011 2012 2013 2Q14 1Q14 2,057 Product Revenue 10,645 28,990 11,455 14,496 15,676 15,676 18,543 18,543 60,170 60,170 24,179 24,179 27,799 27,799 04,449 158,083 158,083 Total Revenues 2.057 10,645 28.990 11.455 14.496 21,225 31.246 104.449 11,659 7 054 27 309 9 672 11 120 12 498 41 780 59 040 Cost of revenues 258 5.681 5 291 6.619 8 344 8 490 COGS as % of sales 36% Gross profit 1,799 4,964 17,331 6,164 7,877 10,198 12,735 14,508 16,679 18,748 62,669 99,043 87.5% 55.0% 149 Gross Margins 46.6% 59.8% 53.8% 54.3% 55.0% 54.6% 60.0% 60.0% 60.0% 60.0% 60.0% 62.7% 165 159 7,417 7,500 7,054 27,33 8,278 7,600 9,174 Selling and Marketing 1.555 3.454 12.508 5.690 7.170 9,188 7,700 10,624 37,263 48.872 7,800 General and administrative 6,992 8,644 21,865 5,700 5,825 8,900 25,874 Research and development 9.023 14,777 24.901 6.915 8.645 7.600 30,86 8,300 8.600 9.200 35,000 36.000 21,640 24,178 17.570 26.875 59.275 21.054 22,617 83,616 25,488 27.674 103,213 120.072 Total operating expenses 18.305 Operating Income (12,432) (15,771) (21,911) (41,944 (12,141) (13,763) (12,419 (50,755 (11,443) (9,194)(8,926 (40.544) Interest income (421) (421) (1,452 (25) (16) 247 212 418 170 153 122 541 143 (845) Other (61)269 0 Income before taxes (17,037) (22,393)(43,127 (12, 166)(13,779)(12,185) (12,207 (50,337 (11,272)(10,828) (9,072)(8,831 (40,003) (20,886 Provision for income taxes 0 0 0 0 Net income (17,037)(22,393)(43,129 (12,166) (13,779)(12, 185)(12,207 (50,337)(11,272)(10,828)(9,072) (8,831 (40,003)(20.886 Accretion of convertible preferred stock (296)(286) (139 0 (17,333) (22,679) (43,268 (12, 166)(13,779) (12,185) (12,207 (50,337 (11,272) (10,828)(9,072) (8,831 (40,003) (20,886 GAAP EPS -Basic (\$3.52) (\$0.41) (\$2.09 (\$0.44) (\$0.49) (\$0.44) (\$0.44 (\$1.81 (\$0.40) (\$0.39) (\$0.32) (\$0.31 (\$1.42) (\$0.74) **GAAP EPS -Diluted** (\$3.52) (\$0.41) (\$2.08 (\$0.44) (\$0.49) (\$0.44) (\$0.44 (\$1.81 (\$0.40)(\$0.39) (\$0.32)(\$0.31 (\$1.42)(\$0.74 Non-GAAP EPS -Diluted (\$3.52)(\$0.41)(\$2.08 (\$0.44)(\$0.49)(\$0.44)(\$0.44) (\$1.81 (\$0.40)(\$0.39)(\$0.32)(\$0.31 (\$1.42)(\$0.74)Weighted average shares - basic 21,577 27,734 27,877 27,919 27,961 27,961 28,017 28,059 28,059 4,930 55,642 27,872 28,101 28,143 28,143 28,326 Weighted average shares - diluted 4.930 55.642 21,778 27.734 27,877 28,143 28.143 28,326 proforma 10,852 Cash and Equivalents 54,838 124,293 112,000 98,779 84,739 68,130 48,977 38,040 22,477 (7,081 68,130 61,064 Net Cash 10,852 54,838 124,293 112,000 98,779 84,739 68,130 68,130 61,064 48,977 38,040 22,477 22,477 (7,081 Net Cash/share 0.80 NOLs (52,991) (65,157) (78,936) (91,121) 103,328) 103,328) (125,429) (34,500 (143,331) 43,331) 164,218 % of Sales 2011 2012 2013 2Q14 3Q15E 2016E Gross Margins 87% 47% 60% 54% 54% 60% Sales and Marketing 76% 32% 43% 50% 49% 42% 51% 30% 34% General and administrative 340% 81% 75% 50% 40% 41% 48% Research and development 139% 60% 42% 29% 23% 439% 86% 60% 36% 99% -39% 0% Total operating expenses 854% 252% 204% 160% 149% 134% 114% -79% 0% -67% 0% -84% -45% -29% 0% -13% FRIT -767% -206% -145% -106% -95% -54% -33% 0% 0% Tax rate 0% 0% 0% 0% 0% 0% -106% -78% -70% -45% -43% -843% -213% -149% -95% 84% 38% -13% -11% Net income -77% 36% Free Cash Flow -1015% -199% -132% -59% -94% 2012 2013 Q15 2Q15E 3Q15E 2016E y/y ∆ Total Revenues NΑ 418% 172% 120% 145% 147% 98% 46% NA 2102% 105% 122% 198% 134% 60% 58% 50% 53% 41% Cost of revenues Gross Margins -16% 132% 9% 30% 10% 36% -47% 28% -1% -13% -3% 61% -9% 119% 10% 9% 43% 214% 45% 28% Sales and Marketing NA 122% 262% 135% 31% 5% 19% 22% General and administrative NA 24% 153% 81% 23% 16% 32% 14% Research and development 9% 28% 13% 19% 13% 23% ΝΔ 64% 69% 39% 42% 24% -1% 3% 16% 41% 18% NA 53% 121% 84% 23% 22% Total operating expenses 56% -20% NA **EBIT** 39% 91% 70% 35% Tax rate NA 68%

Source: Company data, Wedbush Securities, Inc.



Figure 3: Balance Sheet

	2011	2012	2013E	2014E	2015E	2016E
Current assets:						
Total Cash and Cash Equivalents	10852	54,838	124,293	68,130	22,477	(7,081)
Accounts Receivable	278	2,195	6,262	9,271	15,623	23,125
Inventory	318	803	1,763	1,545	2,604	3,854
Prepaid expenses and other Current Assets	313	550	992	992	992	992
Total current assets	11,761	58,386	133,310	79,938	41,695	20,890
Property, Plant and Equipment	7,902	12,154	22,104	25,113	30,335	38,239
Accumulated Depreciation	(1,796)	(4,689)		(4,618)		(16,590)
Restricted cash and other non-current assets	198	188	1,854	2,983	2,983	2,983
Total assets	18,065	66,039	157,268	103,415	65,023	45,522
LIABILITIES AND STOCKHOLDERS' EQUITY						
Current liabilities:						
Accounts Payable and accrued expenses	2,408	5,072	7,007	6,873	8,483	9,869
Deferred revenue and Other Current Liabilities	1,832	3,458	8,752	8,752	8,752	8,752
Total current liabilities	4,240	8,530	15,759	15,625	17,235	18,621
Long-term liabilities:	0.044					
Long Term Debt	3,041	1,441	0	0	0	0
Other long term liabilities	632	807	9,798	9,798	9,798	9,798
Total liabilities	7,913	10,778	25,557	25,423	27,033	28,419
Stockholders' equity:	00.455	00.050	^		_	
Preferred Stock	32,455	98,658	0	0	0	0
Common Stock, APIC, RE	(22,303)	(43,397)		77,993	37,990	17,103
Total liabilities and stockholders' equity	18,065	66,039	157,268	103,415	65,023	45,522

Source: Company data, Wedbush Securities, Inc.

Zarak Khurshid (415) 274-6823 Foundation Medicine | 4

Figure 4: Cash Flow Statement

	2011	2012	2013	2014E	2015E	2016E
Cash Flows from Operating Activities:						
Net (loss) income	(17,037)	(22,393)	(42,944)	(50,337)	(40,003)	(20,886)
Depreciation	1,520	2,894	5,006	4,618	5,372	6,600
change in FV of investor rights obligation	1,067	0	0	0	0	0
change in FV of warrant liability	34	131	1,380	0	0	0
Stock-based compensation expense	73	1,535	7,316	0	0	0
common stock issued for services	0	0	4	0	0	0
non-cash interest expense/impairment	111	104	497	0	0	0
Change in working capital	99	480	(2,025)		(5,800)	(7,366)
Net cash provided by operating activities	(14,133)	(17,249)	(30,766)	(48,645)	(40,431)	(21,653)
Cash Flows from Investing Activities:						
Purchase of property and equipment	(5,410)	(3,183)			(5,222)	(7,904)
increase in restricted cash	0		(1,564)		0	0
Net cash used in investing activities	(5,410)	(3,183)	(8,494)	(7,519)	(5,222)	(7,904)
				0	0	0
Cash Flows from Financing Activities:				0	0	0
Proceeds from Issuance of Restricted Stock	114	70	49	0	0	0
proceeds from issuance of preferred stock	26,338	65,917	(10)		0	0
proceeds from issuance of common stock	0	0	110,381	0	0	0
change in notes payable	2,534	(1,569)	, ,	0	0	0
Net cash provided by financing activities	28,986	64,418	108,715	0	0	0
Not increase (decrease) in each and each another lands	0.440	42.000	60.455	(EC 460)	(45.050)	(00 557)
Net increase (decrease) in cash and cash equivalents	9,443	43,986	69,455	(56,163)	(45,653)	(29,557)
Cash and cash equivalents, beginning of period	40.050	10,852	54,838		68,130	22,477
Cash and cash equivalents, end of period	10,852	54,838	124,293	68,130	22,477	(7,081)

Source: Company data, Wedbush Securities, Inc.

Company	Ticker	Rating	Price Target	Current Price
Illumina	ILMN	NEUTRAL	\$200	\$169

Zarak Khurshid (415) 274-6823 Foundation Medicine | 5



Analyst Biography

Zarak Khurshid is a senior equity research analyst covering the Medical Diagnostics and Life Science Tools sectors. Prior to joining Wedbush in January 2010, Mr. Khurshid was Vice President and senior equity research analyst with Caris & Company where he covered the Medical diagnostics and Life Sciences Tools sectors from 2006 to 2010. Mr. Khurshid's aggressive risk/reward focused investment style is supported by data points from a diverse network of contacts from industry, hospitals, clinical labs, and academia. Mr. Khurshid was ranked #1 in the Life Science Tools and Services sectors and #4 on Wall Street for earnings accuracy in 2012 by Starmine. Prior to his start on Wall Street with Pacific Growth Equities in 2004, Mr. Khurshid was a Research Associate with Cytokinetics and an Associate Bioengineer with Aurora Biosciences. Mr. Khurshid received a BS in Bioengineering and a BA in Economics from the University of California, San Diego.

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Company	Disclosure
Foundation Medicine	1
Illumina	1

Research Disclosure Legend

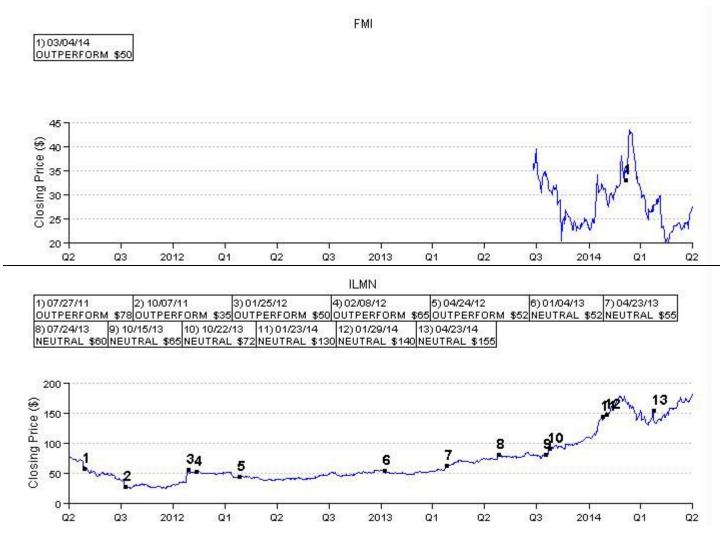
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