Zacks Small-Cap Research

October 20, 2014

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FluoroPharma Md (FPMI-OTCBB)

FPMI: Add'l Positive CardioPET Data Presented at Major Industry Conferences

Current Recommendation	**Outperform**
Prior Recommendation	N/A
Date of Last Change	11/17/2012
Current Price (10/20/14)	$0.51
Target Price	**$2.15**

OUTLOOK

FPMI is looking to capitalize on the rapid growth of PET in cardiac diagnostics. In development are three novel cardiac PET radiopharmaceuticals, two of which could possibly launch within the next two to three years. Data and images from ongoing looks highly promising. Current PET tracers suffer from high cost, safety issues and availability shortages, affording considerable demand for novel radiopharmaceuticals such as FPMI's agents. Company is led by highly qualified management which has done a commendable job with minimizing cash burn while making progress on product development. However, being a development-stage company, an investment in FPMI comes with inherent meaningful risk.

We are maintaining our Outperform rating.

SUMMARY DATA

52-Week High	**$0.92**
52-Week Low	**$0.46**
One-Year Return (%)	**-18.46**
Beta	**-0.16**
Average Daily Volume (sh)	**24,149**
Shares Outstanding (mil)	**29**
Market Capitalization ($mil)	**$15**
Short Interest Ratio (days)	**N/A**
Institutional Ownership (%)	**0**
Insider Ownership (%)	**N/A**
Annual Cash Dividend	**$0.00**
Dividend Yield (%)	**0.00**
5-Yr. Historical Growth Rates	
Sales (%)	**N/A**
Earnings Per Share (%)	**N/A**
Dividend (%)	**N/A**
P/E using TTM EPS	**N/A**
P/E using 2014 Estimate	**N/A**
P/E using 2015 Estimate	**N/A**
Zacks Rank	**N/A**

Risk Level	**High,**
Type of Stock	**Small-Growth**
Industry	**Med Products**

ZACKS ESTIMATES

Revenue
(in millions of $)

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2013	0.0 A	0.0 A	0.0 A	0.0 A	0.0 A
2014	0.0 A	0.0 A	0.0 E	0.0 E	0.0 E
2015					0.0 E
2016					0.0 E

Earnings per Share

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2013	-$0.04 A	-$0.05 A	-$0.10 A	-$0.11 A	-$0.30 A
2014	-$0.05 A	-$0.07 A	-$0.05 E	-$0.07 E	-$0.25 E
2015					-$0.24 E
2015					-$0.20 E

Zacks Projected EPS Growth Rate - Next 5 Years % **N/A**

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WHAT'S NEW…

Clinical Data Flow Continues to Provide Evidence of CardioPET Utility
FPMI made two recent presentations at industry conferences of additional clinical data of CardioPET. Data is from the ongoing Belgian-based phase II open label study which is designed to assess safety and performance of CardioPET compared to SPECT myocardial perfusion imaging (MPI) agents and angiography.

In September data from an abstract titled, *Preliminary Evaluation of Safety, Image Quality and Timing of Acquisition for a Novel Free Fatty Acid PET Imaging Agent, 18-F FCPHA (CardioPET)*, was presented at the 19th Annual Scientific Session of the American Society of Nuclear Cardiology (ASNC). Then just yesterday (10/19/2014) similar data was presented at the prestigious Annual Congress of the European Association of Nuclear Medicine (EANM) in an abstract titled, *FCPHA (CardioPET), a novel F-18 fatty acid analog for myocardial PET imaging: Preliminary results of safety, image quality and optimal timing from a phase II trial.*

This new data further builds on earlier results from the phase II trial (which we detail later) which have indicated CardioPET produces very high quality (qualitatively and quantitatively), that the agent has rapid uptake and clearance and has little liver interference.

The EANM abstract was from 21 patients with known or suspected coronary artery disease (CAD). Patients were imaged with PET using CardioPET at rest (n=10), at maximal vasodilatation with Dipyridamole (n=4) and after a stress test (n=7). Static images were taken at intervals of 2-5, 5-10, 15-20, 35-40 and 50-60 minutes after CardioPET injection. Two physicians evaluated the image quality as either "optimal", "suboptimal/diagnostic but interpretable" or "non-interpretable". A subgoup of 12 patients was also evaluated for myocardial/blood pool and myocardial/liver ratios.

Two patients were not evaluable as a result of technical issues. Results showed image quality being optimal in 14 patients and suboptimal/diagnostic but interpretable in 5 patients (with suboptimal due to liver activity) from 5 minutes to 60 minutes. Similar to earlier data, there was rapid clearance with marked blood pool activity present only in the 2 to 5 minute images. In addition, myocardial blood pool and myocardial liver ratios varied significantly over time with myocardial blood pool trending lower over time (i.e. - clearance over time) and myocardial liver ratios becoming more stable over time.

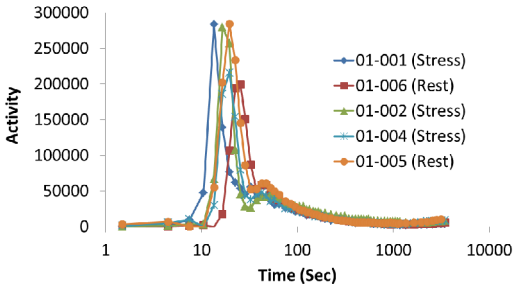
Safety also largely mirrored that of earlier results with no patient experiencing any CardioPET-related adverse events. Safety was assessed using blood and urine, electrocardiography and clinical monitoring.

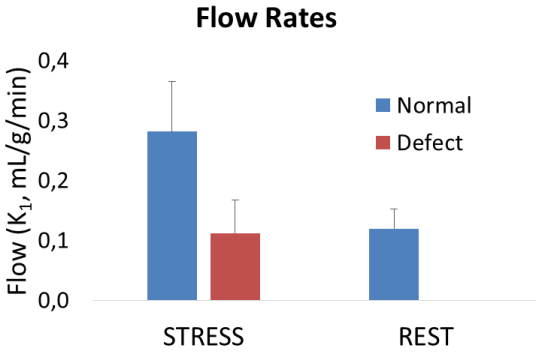
The compilation of the clinical data continues to reinforce our belief that CardioPET has potential to unseat the current standard imaging agents for coronary artery disease imaging. This Belgian-based CardioPET trial could conclude in the second half of 2014, additional data from which we expect will provide even greater insight into the efficacy of the agent.

Quantitative Phase II Data Provides Additional Support of CardioPET Utility
These ASNC and EANM presentations follow an earlier data which was presented at the Society of Nuclear Medicine and Molecular Imaging Annual Meeting (SNMMI), held in early June in St. Louis.

In February of this year, at the SNMMI mid-Winter meeting held in Palm Springs, FPMI presented data on fifteen patients that demonstrated CardioPET has the ability to attain high quality images very shortly after injection (below we provide additional detail on this interim data).

The data presented at SNMMI in St. Louis reinforced the findings of the earlier data and provided quantitative output of results. The quantitative output is presented in graphical form, showing both the rapid uptake and clearance (chart left) of CardioPET as well as how CardioPET can differentiate between normal and damaged tissue (chart right). While the excellent quality of CardioPET images provides a reliable qualitative measure for physicians in diagnosing CAD, this quantitative output demonstrated with the current data provides what is essentially a double-check of the images, offering physicians another tool with CardioPET PET imaging.

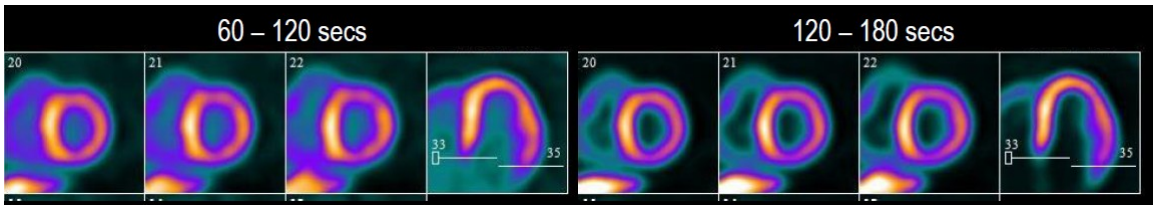




Promising Phase II Data Reinforces Our Confidence in CardioPET
The SNMMI presentation follows initial data from the CardioPET phase II trial which were presented in early February 2014 at the Society of Nuclear Medicine and Molecular Imaging Meeting in Palm Springs, CA.

Fifteen patients with known or suspected coronary artery disease were included in the analysis. Images were taken in three to five minute durations at intervals of one to ten minutes and at 15, 30, 45 and 55 minutes after injection. Image quality was graded as either optimal, sub-optimal or non-interpretable. Changes in blood pool activity, liver activity and delineation defects over time were recorded.

Relative to safety, there were no adverse events and no other safety issues related to CardioPET (one patient had a panic attack from being in the imaging system). Relative to quality of the images and performance of CardioPET, images at all time points from three minutes following injection were considered excellent. Blood pool activity began to decline in the initial one to three minute timeframe and blood pool clearance was totally completed in all patients at five minutes (image below). Rapid blood pool clearance is beneficial as it allows for imaging shortly following injection and reduces patient exposure to imaging radiation.



CardioPET enters the myocardium similar to the way of fatty acids and remains there long enough to allow for PET imaging. The images also showed that fatty acid uptake decreased over time. In ischemic heart conditions, uptake of fatty acids is reduced, which would be expected in these patients. The interim data, image quality and safety were considered very promising. The ability to attain high quality images very shortly after injection is of particularly benefit and significant.

Product Development Progress
Although development timelines slipped during 2013 as FPMI needed to raise additional capital, the company has made significant progress on moving both CardioPET and BFPET through the development pipeline. Capital infusions since Q3 2013 have allowed the company to dedicate more resources towards the ongoing phase II study of CardioPET and should facilitate enrollment of BFPET studies, slated to begin at Massachusetts General Hospital.

CardioPET data to-date has been consistently very positive and our expectations that follow-on results will be similarly positive. The Belgian-based phase II trial is an open label study designed to assess safety and performance of CardioPET compared to SPECT myocardial perfusion imaging (MPI) agents and angiography. Interim data, presented throughout 2014 (as discussed above), provided the most substantive evidence to-date of the potential performance benefits of CardioPET over current standard imaging agents.

Relative to BFPET, in January 2013 FPMI announced that phase II trials will be conducted at Massachusetts General Hospital. Similar to the investigator-led study, the phase II study will compare BFPET to Rb-82 and/or

traditional SPECT agents such as sestamibi which suffer from certain drawbacks such as high cost or comparably (relative to BFPET) lower image quality.

As a reminder, in July and November 2012 FPMI announced image results from a 20-patient investigator-sponsored clinical trial conducted in China where patients with CAD were imaged using BFPET.

Alan Fishman, principal investigator of the BFPET phase I trial (completed in 2008), commented on the initial results of the China-based study released in July 2013, noting that the "initial results are impressive. Image quality obtained using PET is superb. BFPET shows clear diagnostic qualities as well as increased resolution, inherent in PET. The initial images look spectacular and we are confident that when all the patients are imaged, the data will further support clinical development of the agent." His confidence was further bolstered when additional data was available in November 2013, noting "We saw a high level of agreement between the angiography, the SPECT and the BFPET images. These additional images demonstrate that BFPET shows clear diagnostic qualities as well as the increased resolution, inherent in PET."

As highlighted in the images below, image quality with BFPET as compared to standard imaging agents appears to be excellent.

Difference In Image Quality Is Obvious Even To The Untrained Eye

Image Using Sestamibi

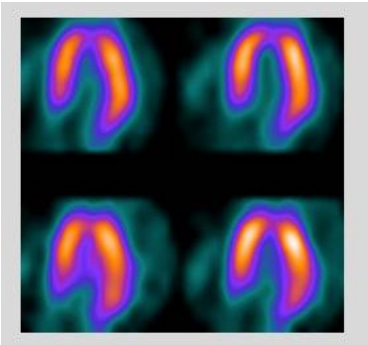
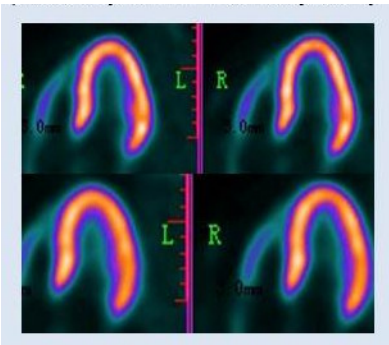


Image Using BFPET



While we had expected this phase II BFPET study at Mass General to initiate by year-end 2013, this was delayed. In May FPMI entered into an agreement with PPD Development, a clinical research organization to provide clinical research services for the BFPET phase II study.

PROJECTED INCOME STATMENT

FluoroPharma Medical, Inc.

	2013 A	Q1 A	Q2 A	Q3 E	Q4 E	2014 E	2015 E	2016 E	2017 E
CardioPET	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$2.8**
YOY Growth	-	-	-	-	-	-	-	-	
BFPET	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**
YOY Growth	-	-	-	-	-	-	-	-	
VasoPET	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**
YOY Growth	-	-	-	-	-	-	-	-	
Other Revenues	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**
YOY Growth	-	-	-	-	-	-	-	-	
Total Revenues	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$0.0**	**$2.8**
YOY Growth	-	-	-	-	-	-	-	-	
Cost of Goods Sold	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.8
Gross Margin	-	-	-	-	-	-	-	-	*73.0%*
Sales, General & Admin	$3.0	$0.9	$0.9	$0.8	$0.9	$3.5	$3.7	$4.2	$5.2
% SG&A	-	-	-	-	-	-	-	-	-
Research & Development	$1.3	$0.3	$0.3	$0.5	$1.0	$2.1	$6.5	$7.0	$7.0
% R&D	-	-	-	-	-	-	-	-	-
Depreciation & Amortization	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Operating Income	($4.4)	($1.2)	($1.2)	($1.3)	($1.9)	($5.6)	($10.2)	($11.2)	($10.2)
Operating Margin	-	-	-	-	-	-	-	-	-
Interest & Other Income	($1.2)	($0.1)	($0.7)	($0.2)	($0.2)	($1.2)	($0.0)	($0.0)	($0.0)
Pre-Tax Income	$5.6	(1.3)	(1.9)	(1.5)	(2.1)	$6.8	$10.2	$11.2	$10.2
Taxes + Other	$0	$0	$0	$0	$0	$0	$0	$0	$0
Tax Rate	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*
Preferred Stock	$1.7	$0.1	$0.1	$0.1	$0.1	$0.5	$1.3	$1.4	$1.0
Net Income	($7.3)	($1.5)	($2.0)	($1.6)	($2.2)	($7.3)	($11.5)	($12.6)	($11.2)
Net Margin	-	-	-	-	-	-	-	-	-
Reported EPS	**($0.30)**	**($0.05)**	**($0.07)**	**($0.05)**	**($0.07)**	**($0.25)**	**($0.24)**	**($0.20)**	**($0.17)**
YOY Growth	-	-	-	-	-	-	-	-	-
Weighted Ave. Shares	24.4	27.3	28.9	29.4	29.5	28.8	48.0	62.0	67.0

Brian Marckx, CFA

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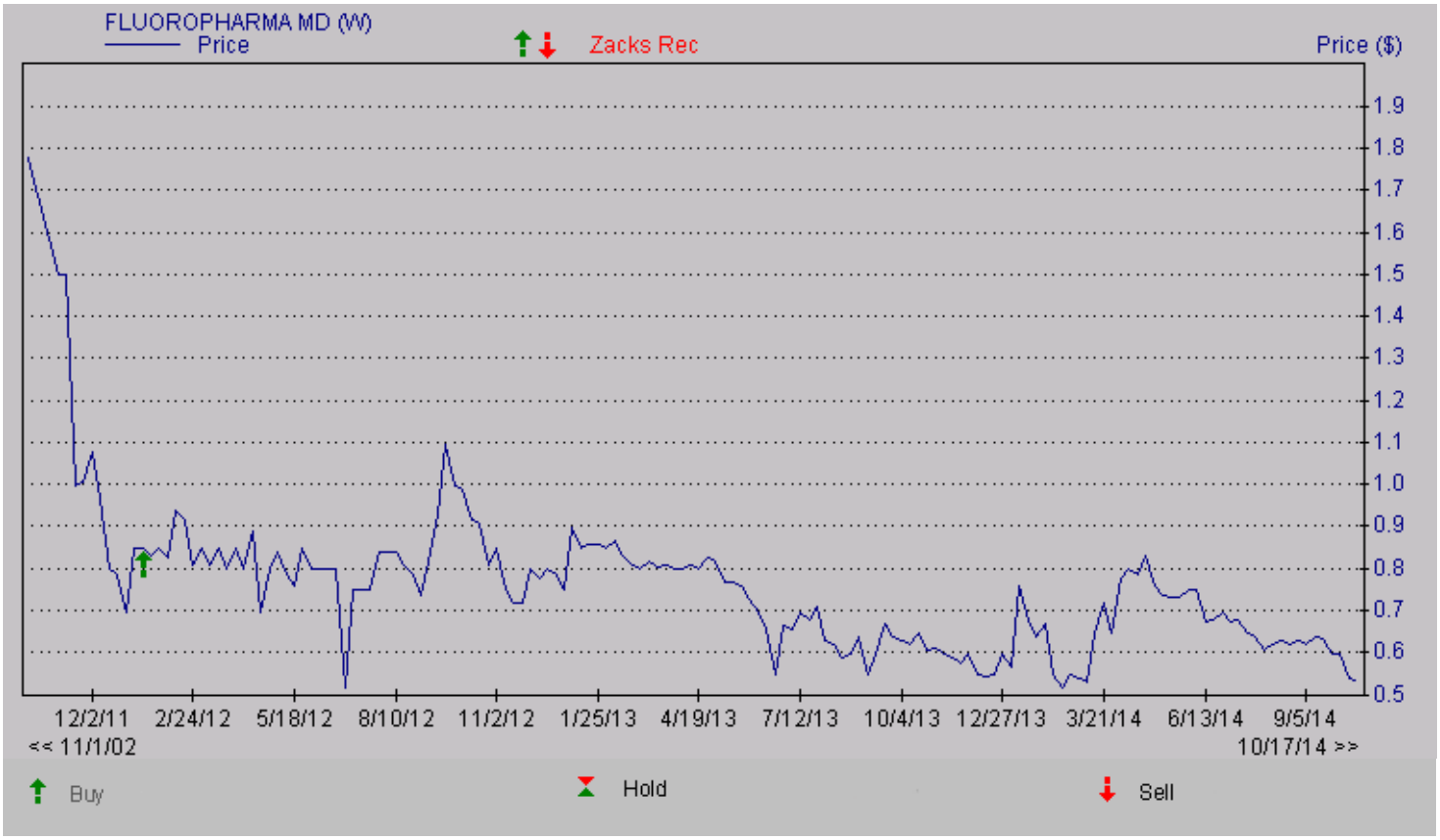

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