January 30, 2013

Brian Marckx, CFA
bmarckx@zacks.com
Ph (312) 265-9474

Zacks Small-Cap Research

scr.zacks.com

111 North Canal Street, Chicago, IL 60606

SANUWAVE Health (SNWV-OTC)

SNWV: $1MM Non-Dilutive Financing

Current Recommendation	**Neutral**
Prior Recommendation	Outperform
Date of Last Change	01/29/2013
Current Price (01/29/13)	$0.26
Target Price	**$1.30**

OUTLOOK

In May 2012 FDA gave the green-light to SNWV's proposed IDE Supplement and add'l clinical trial. With treatment boosts, the trial could show endpoint-hitting efficacy. Important to understand is that this is not a replacement trial but is instead a supplement in every sense of the word - this supplemental data will be in addition to and build on the already very strong and compelling initial trial data.

Enrollment for supplemental trial now expected in Q1 2013.

We remain big believers in dermaPACE and SNWV's management. If all goes well dermaPACE could be on the U.S. mrkt in 2015.

SUMMARY DATA

52-Week High	**$0.53**
52-Week Low	**$0.03**
One-Year Return (%)	**-23.53**
Beta	**0.07**
Average Daily Volume (sh)	**7,804**
Shares Outstanding (mil)	**21**
Market Capitalization ($mil)	**$5**
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 2012 Estimate	**N/A**
P/E using 2013 Estimate	**N/A**
Zacks Rank	**N/A**

Risk Level	**N/A**
Type of Stock	**N/A**
Industry	**Med Products**

ZACKS ESTIMATES

Revenue
(in 000s of $)

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2011	252 A	164 A	162 A	225 A	803 A
2012	239 A	210 A	178 A	225 E	852 E
2013					1,107 E
2014					1,411 E

Earnings per Share

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2011	-$0.14 A	-$0.17 A	-$0.10 A	-$0.12 A	-$0.52 A
2012	-$0.09 A	-$0.07 A	-$0.07 A	-$0.10 E	-$0.32 E
2013					-$0.15 E
2014					-$0.14 E

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

© Copyright 2013, Zacks Investment Research. All Rights Reserved.

WHAT'S NEW…

$1MM NON-DILUTIVE FINANCING

On 12/3/2012, when the shares were trading at about $0.18, SANUWAVE announced that they entered into a financing agreement with one of the company's largest shareholders whereby he will purchase $1MM worth of common stock at $0.25/share over a period of about 18 months.

Terms of the subscription agreement include the sale of $50k (200k) worth of shares by 1/31/2013, $50k by 2/15/2013 and the remaining $900k (3.6MM shares) by 5/27/2014. If at any time after 2/15/2013 SNWV's cash balance falls below $100k the company has the option of requiring the subscriber to purchase $100k (400k) worth of shares of the balance of the total financing amount.

As we've noted in the past, SNWV has managed their cash well and kept burn to a minimum. As of the end of Q3 (9/30/2012) SNWV had $361k in cash and equivalents. Per the Q3 earnings release, SNWV expects to have a larger capital raise in place by the end of Q1 2013 - which we expect remains the current game plan. This should provide even greater breathing room and help accelerate the supplemental dermaPACE clinical trial.

Q3 RESULTS / FINANCING UPDATE *(per our 11/16/2012 update)*

On November 14, 2012 SANUWAVE announced financial results for the third quarter ending September 30th. Revenue was generally in-line although slightly lower than our estimate. More importantly, given that SNWV is focused on conserving capital as they ready for the start of the supplemental trial, is that operating expenses and cash burn continue to come down and were lower than what we had expected. The other positive news is that SNWV is near closing on additional financing which, along with the cash balance, should get them through to the beginning of 2013 at which point trial enrollment is expected to commence and another, larger cash raise is expected to be consummated.

Q3 revenue came in at $178k compared to our $255k estimate. Operating expenses continue to fall sequentially, coming in at $1.5 million, down , which dipped $457k or 25% from Q1 2012, reflect management's tight control on costs and cash.

Management continues to manage expenses and cash well with operating expenses flat from Q2 at $1.5 million and below our $1.6 million estimate. As a reminder, following the December 2011 FDA major deficiency letter, when it was evident that dermaPACE would not make it to the market in the near-term, management announced that they were implementing cost-cutting initiatives to preserve capital. These initiatives started bearing fruit immediately, with op expenses falling $1.9 million through the first 9 months of 2012 compared to the same period in 2011. Part of these efforts included slashing headcount, which fell from 29 to 18 from Q3 2011 to Q3 2012.

Q3 net income and EPS were ($1.5) million and ($0.07) compared to our ($1.5) million and ($0.06) estimates - the difference in EPS a result of us overestimating the outstanding share count - as a reminder, as we noted in a previous update we used a placeholder assumption that financing would come in the form of equity. We have now removed this assumption as financing will likely come in the form of convertible debt (which we assume is eventually converted to equity in later periods).

Cash
Cash used in operations was $1.04 million in Q3, roughly flat from $1.01 million in Q2, and down from $1.49 million in Q1. SANUWAVE exited Q3 with $361k in cash and equivalents, down from $1.4 million at the end of Q2.

We think management has done a commendable job minimizing cash burn and cutting expenses where possible. Nonetheless the company will need to raise additional capital and indicated in the Q3 earnings release and 10-Q that they expect to sell $1.25MM in convertible debt in the very near-term and hope to close on a bigger capital raise by the end of Q1 2013.

Supplemental Trial Enrollment Slated to Commence Q1 2013 *(per our 11/16/2012 update)*
On May 8, 2012 SANUWAVE announced that the FDA approved its IDE Supplement for an additional clinical trial for dermaPACE. Aside from being smaller than the than the initial 206-patient trial and also incorporating treatment

"boosts", the trials will be very similar. The statistical methods (Bayesian) apply sequential analysis allowing for the supplemental data to build on the positive results from the initial larger study. Importantly, the FDA typical approves Bayesian methods when there's already compelling data to build upon (the totality of which will presumably show statistical significance on the primary endpoint). This is a key point and underscores that this is not a replacement trial but is instead a supplement in every sense of the word - this supplemental data will be in addition to and build on the already very strong and compelling initial trial data.

As we've noted previously, the pivotal trial data already indicated dermaPACE was effective in healing diabetic foot ulcers - the hurdle to clear hitting the primary endpoint (100% wound closure), while not attained in the pivotal study, may very well be able to cleared with additional dermaPACE treatments. Safety was also excellent in the initial study, which was obviously a consideration of the FDA in allowing for more aggressive (i.e. - treatment "boosts") treatment with dermaPACE.

SANUWAVE believes the new trial can be completed (including data analysis) in as early as 20 months following initiation (management reiterated this timeline in the Q3 10-Q). Enrollment is projected at 90 patients (~45 treatment / ~45 control). Similar to the initial study, the treatment group will receive four dermaPACE procedures during the first two weeks. In order to improve on the efficacy from the initial trial (which just missed statistical significance on the primary endpoint) up to four treatment "boosts" can be delivered during weeks four and ten. The primary endpoint, 100% wound closure at week-12, will be the same. Assuming statistical significance is met on the primary endpoint, the data will support an amendment to SANUWAVE's existing PMA which could potentially happen sometime in late 2014 with FDA approval possible in early 2015.

SANUWAVE hoped to initiate enrollment in during Q3 2012 but has now pushed this back to Q1 2013 as they needed to secure financing. During Q3 they did finalize selection of clinical sites and continue with the process of getting IRB approvals. Assuming they have the requisite capital and all IRB approvals, they will begin patient enrollment in Q1 2013.

As we noted in our prior updates, the supplemental trial should provide a much less ambiguous decision-point for the agency than if SANUWAVE had decided to just use the original data to go in front of an advisory panel - a final decision from which can end up being a long, drawn-out affair which may not have come out in SANUWAVE's favor. Clearly avoiding the potential pitfalls of an advisory-panel review played a major role in management's decision to pursue a supplemental trial.

Importantly, safety was excellent in all studies to date which opened up the door for more aggressive treatment within the standard 12-week treatment window in this supplemental trial. These treatment "boosts" may very possibly increase efficacy and get them over the primary endpoint hurdle. Also very important is that the 12-week treatment window used in the initial trial will also be used in the supplement trial. If this supplemental study achieves 100% wound closure with the help of these treatment boosts, that would be an obvious major positive for SANUWAVE.

Given the slight delay in the start of enrollment (now expected Q1 2013), we have made some updates to our timelines for launch of dermaPACE - pushing it back by about 4 months from our previous assumptions. Aside from that, our best-guesses regarding size, costs and timelines of the supplemental trial remain unchanged from our prior assumptions. Our long-term outlook remains intact and we continue to believe dermaPACE can eventually be highly successful in the $2+ billion diabetic foot ulcer market.

VALUATION / RECOMMENDATION

Moving Rec To Neutral…

We are moving our recommendation from Outperform to Neutral as the company still awaits the initiation of the supplemental trial. While the recent financing agreement and more expected in the near-term should help to facilitate the initiation of the trial, we think it's prudent to move our recommendation to Neutral for the time being.

We use 2015 P/S comparables to value SNWV. Smith & Nephew currently trades at approximately 2.1x analyst's 2015 forecasted revenue. We currently model SNWV to generate revenue of about $12.7 million in 2015 – based on the SNN comp 2015 P/S multiple, this values SNWV at about $1.30/share.

FINANCIAL MODEL

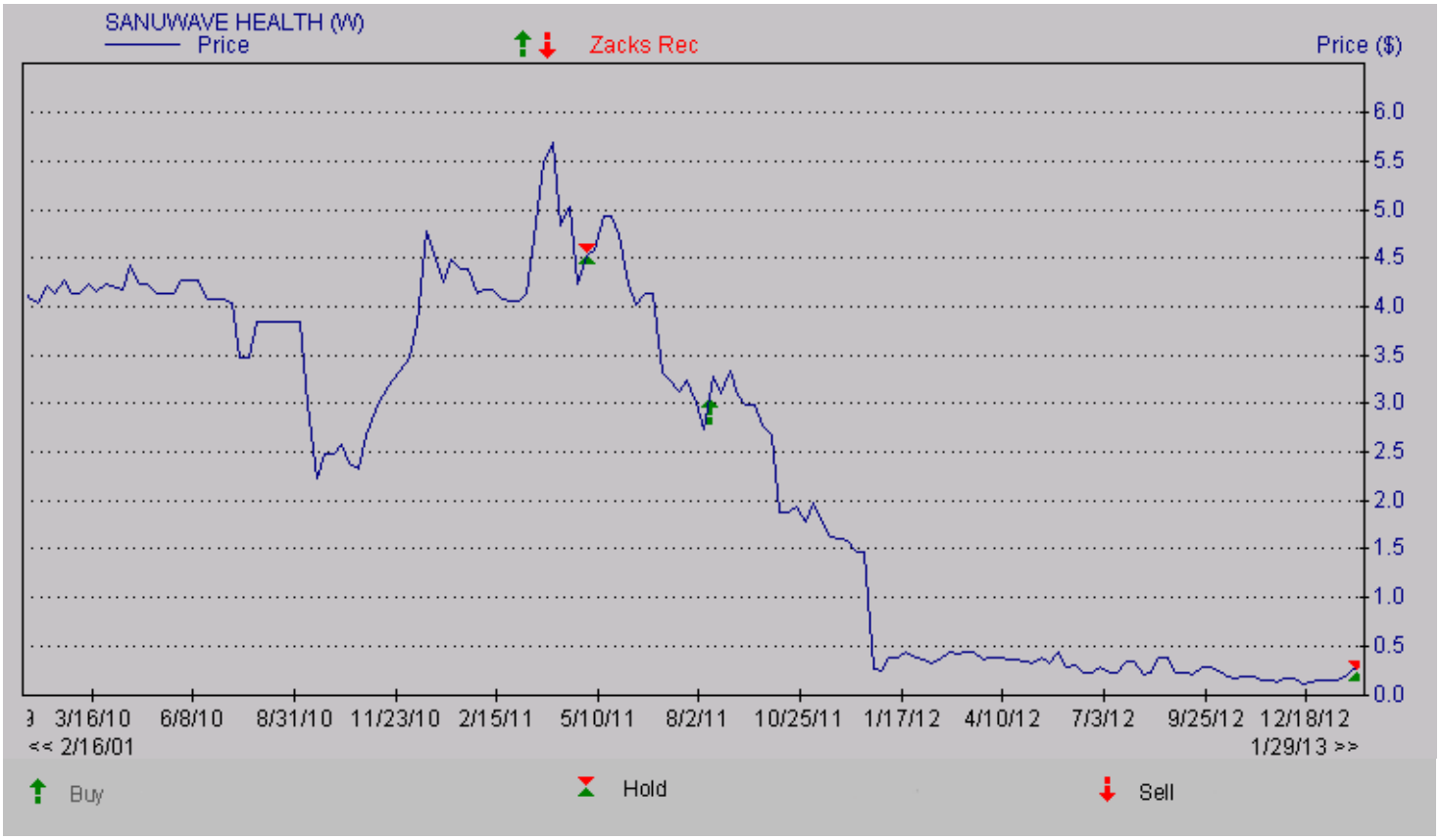
SANUWAVE Health, Inc.

	2011 A	Q1A	Q2A	Q3A	Q4E	2012 E	2013 E	2014 E	2015 E
Total Revenues	$802.6	$238.5	$210.4	$178.3	$225.0	$852.2	$1,107.0	$1,410.9	$12,770.4
YOY Growth	*10.2%*	*-5.2%*	*28.5%*	*10.3%*	*-0.2%*	*6.2%*	*29.9%*	*27.4%*	*805.2%*
Cost of Revenues	$261.9	$71.8	$82.2	$44.0	$67.5	$265.4	$332.1	$425.4	$2,877.3
Gross Income	$540.7	$166.8	$128.2	$134.3	$157.5	$586.8	$774.9	$985.5	$9,893.1
Gross Margin	*67.4%*	*69.9%*	*60.9%*	*75.3%*	*70.0%*	*68.9%*	*70.0%*	*69.9%*	*77.5%*
R&D	$2,731.1	$603.8	$347.6	$440.2	$660.0	$2,051.6	$2,722.0	$3,250.0	$3,450.0
% R&D	*340.3%*	*253.1%*	*165.3%*	*246.9%*	*293.3%*	*240.8%*	*245.9%*	*230.4%*	*27.0%*
SG&A	$6,293.0	$1,237.5	$1,036.7	$977.9	$1,400.0	$4,652.1	$4,644.0	$5,218.0	$9,450.1
% G&A	*784.1%*	*518.8%*	*492.8%*	*548.6%*	*622.2%*	*545.9%*	*419.5%*	*369.8%*	*74.0%*
Depreciation	$19.0	$5.2	$5.1	$5.0	$4.0	$19.3	$20.0	$40.0	$80.0
Amortization	$306.8	$76.7	$76.7	$76.7	$76.7	$306.8	$306.8	$306.8	$306.8
Write down of assets	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Operating Income	($8,809.2)	($1,756.5)	($1,338.0)	($1,365.4)	($1,983.2)	($6,443.1)	($6,917.9)	($7,829.3)	($3,393.8)
Operating Margin	*-1097.6%*	*-736.3%*	*-636.1%*	*-766.0%*	*-881.4%*	*-756.1%*	*-624.9%*	*-554.9%*	*-26.6%*
Gain (loss) on asset sale	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Svcs provided to Pulse Vet.	$375.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Extinguishment of debt	($1,318.8)	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Interest expense, net	($472.1)	($78.9)	($80.4)	($81.9)	($85.0)	($326.2)	($360.0)	($360.0)	($360.0)
Loss of FX	($13.8)	$0.0	($6.2)	$0.0	$0.0	($6.1)	$0.0	$0.0	$0.0
Pre-Tax Income	($10,238.8)	($1,835.3)	($1,424.6)	($1,447.3)	($2,068.2)	($6,775.4)	($7,277.9)	($8,189.3)	($3,753.8)
Taxes	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Tax Rate	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*8.0%*
Discontinued Operations	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Net Income	($10,238.8)	($1,835.3)	($1,424.6)	($1,447.3)	($2,068.2)	($6,775.4)	($7,277.9)	($8,189.3)	($3,753.8)
YOY Growth	*-31.4%*	*-15.9%*	*-60.1%*	*-30.1%*	*-14.2%*	*-33.8%*	*7.4%*	*12.5%*	*-54.2%*
Net Margin	*-1275.8%*					*-795.1%*	*-657.4%*	*-580.4%*	*-29.4%*
EPS (continuing ops)	($0.52)	($0.09)	($0.07)	($0.07)	($0.10)	($0.32)	($0.15)	($0.14)	($0.06)
Diluted Shares O/S	19,624	20,908	20,908	20,908	21,000	20,931	50,000	60,000	64,000

Brian Marckx, CFA

© Copyright 2013, Zacks Investment Research. All Rights Reserved.

HISTORICAL ZACKS RECOMMENDATIONS



DISCLOSURES

The following disclosures relate to relationships between Zacks Investment Research ("ZIR") and Zacks Small-Cap Research ("Zacks SCR") and the issuers covered by the Zacks SCR analysts in the Small-Cap Universe.

ZIR or Zacks SCR Analysts do not hold or trade securities in the issuers which they cover. Each analyst has full discretion on the rating and price target based on their own due diligence. Analysts are paid in part based on the overall profitability of Zacks SCR. Such profitability is derived from a variety of sources and includes payments received from issuers of securities covered by Zacks SCR for non-investment banking services. No part of analyst compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in any report or blog.

ZIR and Zacks SCR do not make a market in any security nor do they act as dealers in securities. Zacks SCR has never received compensation for investment banking services on the small-cap universe. Zacks SCR does not expect received compensation for investment banking services on the small-cap universe. Zacks SCR has received compensation for non-investment banking services on the small-cap universe, and expects to receive additional compensation for non-investment banking services on the small-cap universe, paid by issuers of securities covered by Zacks SCR. Non-investment banking services include investor relations services and software, financial database analysis, advertising services, brokerage services, advisory services, investment research, and investment management.

Additional information is available upon request. Zacks SCR reports are based on data obtained from sources we believe to be reliable, but is not guaranteed as to accuracy and does not purport to be complete. Because of individual objectives, the report should not be construed as advice designed to meet the particular investment needs of any investor. Any opinions expressed by Zacks SCR Analysts are subject to change. Reports are not to be construed as an offer or the solicitation of an offer to buy or sell the securities herein mentioned. Zacks SCR uses the following rating system for the securities it covers. Buy/Outperform: The analyst expects that the subject company will outperform the broader U.S. equity market over the next one to two quarters. Hold/Neutral: The analyst expects that the company will perform in line with the broader U.S. equity market over the next one to two quarters. Sell/Underperform: The analyst expects the company will underperform the broader U.S. Equity market over the next one to two quarters.

The current distribution of Zacks Ratings is as follows on the 1011 companies covered: Buy/Outperform- 14.6%, Hold/Neutral- 77.8%, Sell/Underperform – 7.0%. Data is as of midnight on the business day immediately prior to this publication.

© Copyright 2013, Zacks Investment Research. All Rights Reserved.