Radius Health



Equity Research

November 11, 2014

Price: \$22.32 (11/10/2014)

Price Target: NA

OUTPERFORM (1)

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Key Data

NASDAQ: RDUS Symbol 52-Week Range: \$24.93 - 7.46 Market Cap (MM): \$724.9 Net Debt (MM): \$0.0 Cash/Share: \$31.90 Dil. Shares Out (MM): 29.7 Enterprise Value (MM): \$666.2 ROIC NA ROE (LTM): NA BV/Share: \$1.34 Dividend: NA

FY (Dec)	2013A	2014E	2015E					
Earnings Per Share								
Q1	\$(31.25)	\$(50.45)A	\$(0.57)					
Prior Q1	-	-						
Q2	\$(62.59)	\$(1.68)A	\$(0.54)					
Prior Q2	-	-						
Q3	\$(65.05)	\$(0.59)A	\$(0.55)					
Prior Q3	-	\$(0.55)						
Q4	\$(43.19)	\$(0.57)	\$(0.56)					
Prior Q4	-	\$(0.62)						
Year	\$(203.90)	\$(3.86)	\$(2.22)					
Prior Year	-	\$(3.97)	\$(2.25)					
P/E	NM	NM	NM					
Consensus EPS	-	\$(3.11)	\$(2.18)					
Consensus source:	Thomson Reute	ITS						

Revenue (MM)

-	-		
Year	\$0.0	\$0.0	\$0.0
EV/S	-	-	-

Earnings Update

Reports Q3; Phase III Abaloparatide By YE:14

The Cowen Insight

Radius reported Q3 financials and provided a pipeline update. In late December, RDUS expects to announce top-line Phase III abaloparatide data in osteoporosis. RDUS will also present data from RAD1901 Phase I study at the SABCS and start a trial in breast cancer with brain mets by YE. We expect RDUS shares to outperform on the basis of positive Phase III abaloparatide data .

Phase III Abaloparatide Data In Late December

At YE:14 Radius expects to announce top-line data from its 18-month Phase III study comparing daily subQ injections of abaloparatide to placebo and to a reference Forteo arm. Recall that in a head-to-head Phase II trial, abaloparatide appeared more potent than LLY's Forteo, the only anabolic agent for osteoporosis with 2013 sales of \$1.2B: 66% of patients on abalogaratide witnessed increased BMD at all three sites (spine, hip, and femoral neck) vs. 40% on Forteo. Importantly, 37% of abaloparatide patients experienced a >3% increase in total hip BMD vs. 16% on Forteo. These differences appear mechanistically driven, and related to Forteo's ability to cause "cortical bone porosity". Hence we are optimistic for the Phase III results. Preclinical data presented at the ASBMR conference support the drug's ability to not only increase BMD, but also improve bone morphology and strength. In order to gain FDA approval, abaloparatide will need to show a reduction in vertebral fractures (primary endpoint) and possibly also non-vertebral fractures (secondary endpoint). Abaloparatide's Phase III trial is not powered to demonstrate a fracture reduction relative to Forteo, but physicians and payors will pay particular interest in whether abaloparatide's superior cortical bone building properties translate into a favorable trend in non-vertebral fractures. RDUS continues its discussions with potential partners that will enable a global launch of abaloparatide, if approved.

Don't Forget RAD1901

RAD1901, a selective estrogen receptor degrader (SERD), has provided proof of mechanism data in a Phase I study. Radius intends to develop '1901 for the treatment of ER+ breast cancer patients with brain metastases, a major unmet need. In September at the 4th ABMRET Conference, Radius presented data that demonstrated '1901 is well tolerated, capable of penetrating the CNS, and active at suppressing the estrogen receptor in healthy volunteers as assessed by PET imaging. At the SABCS, Radius expects to present additional dosing data. By YE, Radius plans to begin a U.S Phase Ib trial in patients with breast cancer. Radius also intends to initiate a study in vasomotor symptoms with '1901 in H2:15.

Q3 Financials; Cash Into H2:15

Radius reported a \$17.4MM net loss, vs. our \$18.6MME. Radius ended Q3 with \$68.5MM in cash. In October, Radius closed a public offering with net proceeds of approximately \$53.3MM. Inclusive of this transaction, Radius expects to fund operations through key milestones in mid-2015 including the submission of regulatory filings on abaloparatide and Phase I '1901 studies.

Please see addendum of this report for important disclosures.

November 11, 2014



Our Investment Thesis

Abaloparatide is a novel PTH mimetic that stimulates osteoblast function in a manner that is differentiated from Forteo. In Phase II studies, abaloparatide demonstrated superior trends relative to Forteo in terms of speed of onset and ability to increase BMD at the spine, hip, and femoral neck. In addition, relative to Forteo, abaloparatide was associated with a lower rate of hypercalcemia. A Phase III trial likely to read out in late 2014 is looking to confirm these benefits. We think abaloparatide's benefits over Forteo could allow the product capture a significant portion of Foteo's \$1.2B worldwide market. A transdermal patch formulation (abaloparatide-TD) is in Phase II development, and could further expand the market. RDUS's other clinical candidate, RAD1901, is selective estrogen receptor degrader (SERD) with promising potential in breast cancer and other ER+ driven tumors.

Forthcoming Catalysts

- Present data from the Phase I PK/ PD study of RAD1901 at SABCS December 2014
- 18-month fracture data from abaloparatide's Phase III study by year end 2014
- Results from the optimization of abaloparatide-TD's formulation in late 2014 or early 2015

Base Case Assumptions

- Subcutaneous injection of abaloparatide succeeds in the pivotal Phase III study and receives FDA approval
- Abaloparatide becomes a \$400MM+ drug in the U.S.

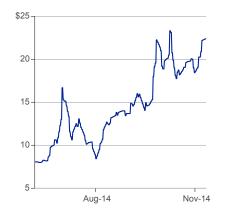
Upside Scenario

- Radius successfully develops abaloparatide-TD, and the patch significantly expands the drug's market
- Radius successfully develops
 RAD1901 for patients with brain mets
- Radius is acquired

Downside Scenario

- Abaloparatide subcutaneous injection fails in the pivotal Phase III study
- Abaloparatide fails to demonstrate a differentiated clinical profile from Forteo and is not able to compete for market share

Price Performance



Source: Bloomberg

2

Company Description

Radius is developing abaloparatide, a synthetic analog of the first 34 amino acids of human parathyroid hormone related protein (hPTHrP), for osteoporosis patients with high risk for bone fractures. Abaloparatide increases patients' bone mineral density (BMD) by stimulating osteoblasts to promote new bone formation. In the Phase II proof-of-concept trial, daily subcutaneous injections of abaloparatide demonstrated statistical significant BMD increase as compared to placebo as well as a trend of better efficacy as compared to Forteo (a human recombinant 34-amino acid N-terminal fragment of the parathyroid hormone) from Eli Lilly, the only FDA approved anabolic agent. A pivotal Phase III clinical trial is ongoing with top-line data expected by year end 2014. Radius's second drug candidate RAD1901 functions as a selective estrogen receptor down-regulator (SERD) at a high dose. Radius plans to develop RAD1901 for the treatment of ER-positive breast cancer brain metastases.

Analyst Top Picks

	Ticker	Price (11/10/2014)	Price Target	Rating
Kite Pharma	KITE	\$42.86	\$NA	Outperform
Agios Pharmaceuticals	AGIO	\$81.78	\$NA	Outperform
bluebird bio	BLUE	\$42.50	\$NA	Outperform

Investment Thesis

Radius Health is a biopharmaceutical company focused on the development of two inlicensed drug candidates. Abaloparatide is a peptide analog of the PTH-related protein in Phase III development for osteoporosis. We believe it may prove directionally superior to Eli Lily's Forteo (a PTH analog), a drug that sold over \$1B in 2013. Data from Radius's Phase III trial comparing daily subcutaneous injections of abalogaratide (abaloparatide-SC) to placebo as well as to a reference Forteo arm are expected in late 2014. Abaloparatide is also being developed in Phase II studies as a patch for transdermal delivery (abaloparatide-TD). If successful, this could substantially broaden the product's appeal by removing the need for daily injections, which are required for abaloparatide and Forteo in their current dosage forms. The second candidate RAD1901 is a selective estrogen receptor degrader or SERD for estrogen receptor positive (ER+) breast cancer. SERDs are a relatively new and exciting class of therapeutics that have the ability to treat hormone-resistant tumors. A Phase I trial on RAD1901 in breast cancer patients with brain metastases is expected to begin by YE:14. A third drug candidate, RAD140, is in preclinical development as a selective androgen receptor modulator for cancer and muscle wasting conditions. Radius completed an IPO in June 2014 raising gross proceeds of approximately \$56MM followed by a secondary offering in October with gross proceeds of approximately \$53.2MM. We believe the company is financed to mid-2015 and through several important milestones, including pivotal data on abaloparatide. Should abaloparatide receive FDA approval, we believe it has the potential to become the preferred anabolic agent for osteoporosis and claim much of Forteo's current market share. We expect RDUS share to outperform on the basis of positive Phase III data on injectable abaloparatide and advancement of other pipeline candidates.

Radius Health - Upcoming Milestones/Events

Indication/Milestone	Timing
Present RAD1901 at the Therapeutic Area Partnerships meeting	November 19-21
Present data on RAD1901 at the SABCS	December 9-13
18-month treatment fracture data from the pivotal Phase III study of abaloparatide	YE:14
Initiation of Phase Ib trial of RAD1901 in breast cancer patients with brain mets in U.S.	YE:14
Formulation optimization for abaloparatide-TD patch	YE:14 or early '15
Initiation of Phase Ib trial of RAD1901 in breast cancer patients with brain mets in Europe	H1:15
24-month fracture data from the pivotal Phase III study of abaloparatide	Q2:15
Potential NDA and MAA submissions for abaloparatide	mid:15
Initiate Phase IIb study on RAD1901 for vasomotor symptoms	H2:15
Potential FDA and EMA approvals for abaloparatide	H2:16
Possible Commercial launch of abaloparatide	YE:16

Source: Cowen and Company

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Radius Health Quarterly P&L Model (\$MM)

	Q1:14A	Q2:14A	Q3:14A	Q4:14E	2014E	Q1:15E	Q2:15E	Q3:15E	Q4:15E	2015E
Abaloparatide-SC U.S. Sales Revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000
Abaloparatide-SC ex-U.S. Royalty Revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COGS	-	_	_	-	_	-	_	-	_	_
GMs										
R&D	9.7	10.6	13.8	14.5	48.7	15.0	15.5	16.0	16.5	63.0
SG&A	2.1	3.1	2.8	3.7	11.7	3.7	4.0	4.1	4.2	16.0
Other	-	-	-	-	-	-	-	-	-	-
Total Operating Expenses	11.9	13.7	16.7	18.2	60.4	18.7	19.5	20.1	20.7	79.0
Income from Operations Op Margins	(11.9)	(13.7)	(16. <i>7</i>)	(18.2)	(60.4)	(18.7)	(19.5)	(20.1)	(20.7)	(79.0)
Interest and Investment Income	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	1.0
Other Income (expense)	(2.2)	1.5	0.0	0.0	(0.7)	0.0	0.0	0.0	0.0	0.0
Interest expense	(0.4)	(0.5)	(0.8)	(0.5)	(2.2)	(0.5)	(0.5)	(0.5)	(0.5)	(2.0)
Net Loss	(14.5)	(12.6)	(17.4)	(18.6)	(63.1)	(19.0)	(19.8)	(20.4)	(21.0)	(80.0)
Acretion of Preferred Stock	(5.0)	0.0	0.0	0.0	(5.0)	0.0	0.0	0.0	0.0	0.0
Pre Tax Earnings (Losses)	(19.5)	(12.6)	(17.4)	(18.6)	(68.1)	(19.0)	(19.8)	(20.4)	(21.0)	(80.0)
Tax rate	0%	0%	0%	0%	0%	0%	0%	0%	0.0	0%
Income Tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Income (Loss)	(\$19.5)	(\$12.6)	(\$17.4)	(\$18.6)	(\$68.1)	(\$19.0)	(\$19.8)	(\$20.4)	(21.0)	(80.0)
GAAP EPS	(\$50.45)	(\$1.68)	(\$0.59)	(\$0.57)	(\$3.86)	(\$0.57)	(\$0.54)	(\$0.55)	(\$0.56)	(\$2.22)
Diluted Shares	0.4	7.5	29.7	32.9	17.6	33.0	36.5	37.0	37.5	36.0

Source: Cowen and Company

Radius Health Annual P&L Model (\$MM)

	2013A	2014E	2015E	2016E	2017E	2018E	2019E
Abaloparatide-SC U.S. Sales Revenue	0.0	0.0	0.0	5.0	70.0	125.0	175.0
Abaloparatide-SC ex-U.S. Royalty Revenue	0.0	0.0	0.0	0.0	0.8	6.0	15.0
Total Revenue	0.0	0.0	0.0	5.0	70.8	131.0	190.0
COGS	-	-	-	0.9	10.5	17.5	22.8
GMs -	0%	0%	0%	83%	85%	86%	87%
R&D	60.5	48.7	63.0	67.0	70.0	72.0	74.0
SG&A	6.8	11.7	16.0	54.0	80.0	90.0	95.0
Total Operating Expenses	67.4	60.4	79.0	121.9	160.5	180.4	191.8
Income from Operations	(67.4)	(60.4)	(79.0)	(116.9)	(89.8)	(49.4)	(1.8)
Op Margins	0%	0%	0%	0%	0%	0%	NA
Interest and Investment Income	0.0	0.1	1.0	0.8	0.5	1.0	0.0
Other Income (expense)	9.1	(0.7)	0.0	0.0	0.0	0.0	0.0
Interest expense	(2.4)	(2.2)	(2.0)		(1.0)	(0.5)	
Net Loss	(60.7)	(63.1)	(80.0)	(118.1)	(90.3)	(48.9)	(2.3)
Acretion of Preferred Stock	(17.5)	(5.0)	0.0	0.0	0.0	0.0	0.0
Pre Tax Earnings (Losses)	(78.2)	(68.1)	(80.0)	(118.1)	(90.3)	(48.9)	(2.3)
Tax rate	0%	0%	0%	0%	0%	0%	0%
Income Tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Income (Loss)	(\$78.2)	(\$68.1)	(\$80.0)	(\$118.1)	(\$90.3)	(\$48.9)	(\$2.3)
GAAP EPS	(\$203.90)	(\$3.86)	(\$2.22)	(\$3.15)	(\$2.10)	(\$1.00)	(\$0.05)
Diluted Shares	0.4	17.6	36.0	37.5	43.0	49.0	50.0

Source: Cowen and Company

Valuation Methodology And Risks

Valuation Methodology

Biotechnology:

In calculating our 12-month target price, we employ one or more valuation methodologies, which include a discounted earnings analysis, discounted cash flow analysis, net present value analysis and/or a comparable company analysis. These analyses may or may not require the use of objective measures such as price-to-earnings or price-to-sales multiples as well as subjective measures such as discount rates.

We make investment recommendations on early stage (pre-commercial) biotechnology companies based upon an assessment of their technology, the probability of pipeline success, and the potential market opportunity in the event of success. However, because these companies lack traditional financial metrics, we do not believe there are any good methodologies for assigning a specific target price to such stocks.

Investment Risks

Biotechnology:

There are multiple risks that are inherent with an investment in the biotechnology sector. Beyond systemic risk, there is also clinical, regulatory, and commercial risk. Additionally, biotechnology companies require significant amounts of capital in order to develop their clinical programs. The capital-raising environment is always changing and there is risk that necessary capital to complete development may not be readily available.

Risks To The Price Target

Radius Health is unprofitable, has no approved products, and will likely need to raise additional capital from the public markets prior to turning profitable. There is no guarantee that abaloparatide's Phase III study will meet its primary endpoint of fracture reduction. Even if successful, abaloparatide may face other commercial and competitive risks that thwart adoption.

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Addendum

Stocks Mentioned In Important Disclosures

Ticker	Company Name	
AGIO	Agios Pharmaceuticals	
AGIO BLUE	bluebird bio	
KITE	Kite Pharma	
RDUS	Radius Health	

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Radius Health, Agios Pharmaceuticals, bluebird bio and Kite Pharma have been client(s) of Cowen and Company, LLC in the past 12 months

Cowen and Company, LLC and/or its affiliates expect to receive, or intend to seek, compensation for investment banking services in the next 3 months from Radius Health.

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Outperform (1): The stock is expected to achieve a total positive return of at least 15% over the next 12 months

Market Perform (2): The stock is expected to have a total return that falls between the parameters of an Outperform and Underperform over the next 12 months

Underperform (3): Stock is expected to achieve a total negative return of at least 10% over the next 12 months

Assumption: The expected total return calculation includes anticipated dividend yield

Cowen and Company Rating System until May 25, 2013

Outperform (1): Stock expected to outperform the S&P 500

6

November 11, 2014

Neutral (2): Stock expected to perform in line with the S&P 500

Underperform (3): Stock expected to underperform the S&P 500

Assumptions: Time horizon is 12 months; S&P 500 is flat over forecast period

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Buy – The fundamentals/valuations of the subject company are improving and the investment return is expected to be 5 to 15 percentage points higher than the general market return

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Hold – The fundamentals/valuations of the subject company are neither improving nor deteriorating and the investment return is expected to be in line with the general market return

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Rating	Count	Ratings Distribution	Count	IB Services/Past 12 Months
Buy (a)	440	59.95%	105	23.86%
Hold (b)	278	37.87%	10	3.60%
Sell (c)	16	2.18%	0	0.00%

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Radius Health Rating History as of 11/10/2014

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Agios Pharmaceuticals Rating History as of 11/10/2014

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------ Closing Price ------ Target Price

Radius Health

November 11, 2014

bluebird bio Rating History as of 11/10/2014

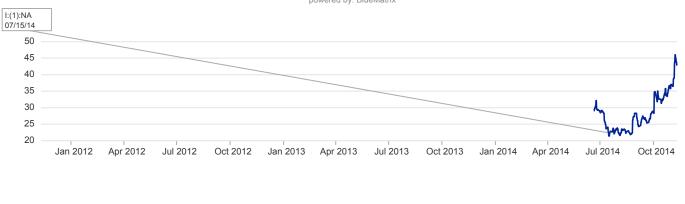
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Closing Price Target Price

Kite Pharma Rating History as of 11/10/2014

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Closing Price Target Price

Legend for Price Chart:

I = Initiation | 1 = Outperform | 2 = Market Perform | 3 = Underperform | UR = Price Target Under Review | T = Terminated Coverage | \$xx = Price Target | NA = Not Available | S=Suspended

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