

# Eleven Biotherapeutics

**Equity Research** 

August 13, 2014

**Price: \$12.32** (08/12/2014) **Price Target: \$35.00** 

#### **OUTPERFORM (1)**

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#### **Key Data**

Symbol NASDAQ: EBIO Market Cap (MM) \$200.4 Company Quick Take

# Significant Optionality Exists Heading Into The Allergic Conjunctivitis Data

## The Cowen Insight

Eleven reported Q2 earnings and reiterated a Q4 data readout for EBI-005 allergic conjunctivitis. As we head towards this event, we like the optionality for the program moving forward and believe that very little-to-no value is being ascribed for this indication. Given this and our consultants' views on the pivotal dry eye study that will report in early 2015, we would be buying EBIO here.

# EBI-005 Phase II Allergic Conjunctivitis Study Complete, Data Analysis Underway, And Topline Data Expected Q4

Eleven Biotherapeutics reported Q2 earnings and provided updates on the Company's clinical development programs. Importantly, while much of the focus is on the Company's EBI-005 (topical IL-1 inhibitor) Phase III dry eye disease program that will have pivotal data in early 2015, we are expecting the EBI-005 Phase II allergic conjunctivitis study to read out first in the fourth quarter of this year. On the call, management announced that the allergic conjunctivitis study was complete and data analysis is currently underway, so we believe the Company's timeline is reasonable and wouldn't be surprised to see data come earlier than some may anticipate. We feel it is worth noting that the Phase II study used two clinical allergen challenge models: (1) an indirect, or Environmental Exposure Chamber (EEC) Model; and (2) a direct challenge, or Conjunctival Allergen Provocation Test (CAPT) model. These are commonly employed models for allergic conjunctivitis studies. While data has been collected and will be analyzed for both models, the Company mentioned that based upon the Phase II data, it will be able to choose either model to move forward into Phase III. We like this optionality and believe that it de-risks the outcome of the Phase II results and the eventual potential for the program to move into Phase III. The bottom line is that we believe this program has been afforded little credit at this current valuation - which we could argue is almost entirely predicated on the dry eye program - and that if the allergic conjunctivitis data is positive, EBI-005 could be a late-stage potentially useful treatment option for moderate to severe patients who currently have a lack of effective treatment options available. Stated more clearly, we believe that very little-to-no valuation is being ascribed to the allergic conjunctivitis indication, which we believe is overly conservative when this program has potential to advance into Phase III within the next year.

# EBI-005 Pivotal Dry Eye Data Readout On Track For Early 2015 – Shire Filing Disclosure Indicates That The Dry Eye Regulatory Environment Is Improving

Additionally, the pivotal Phase III EBI-005 clinical trial in dry eye, which is ongoing, continues to enroll patients on schedule and topline data is expected in early 2015. A 12-month dry eye safety study should be initiated in the second half of this year as well, which is also on plan. Importantly, physicians continue to assert that the scientific rationale behind EBI-005 and Eleven's other programs remain sound and that the new ocular pain symptoms endpoint for the dry eye trials is very relevant (commercially/clinically) to the disease. In our EBIO initiation in early March, we discussed at length the historically difficult dry eye disease regulatory environment, Please see addendum of this report for important disclosures.

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which is centered around the requirement of meeting two potentially non-correlated co-primary endpoints (signs and symptoms). However, we also noted how that environment has been easing/improving in recent years with what appears to be a more amenable FDA. Examples of this have been the emergence of the "totality of the data" thesis and the FDA's willingness to allow Shire to explore a novel, more simplistic and straightforward, patient-reported eye dryness symptoms endpoint (as opposed to the more complicated tradition OSDI measurement). Additionally, it appears the Agency may be amenable to allowing positive Phase III results for the signs and symptoms endpoints in separate Phase III studies (which is discussed in our note here). The bottom line is that it appears that the Agency is considering a more pragmatic pathway and the regulatory environment is improving. Ultimately, we believe this bodes well for Eleven Biotherapeutics' Phase III EBI-005 dry eye program.

We would reiterate that our consultants continue to indicate that Restasis is a fairly poor treatment given its efficacy and tolerability profile, nonetheless, is the market leader and the only approved dry eye drug with roughly \$1B in sales. Our consultants stress that a "better" therapeutic option could expand dry eye prescription utilization by 3-4x the current Restasis use, making the prescription target market likely actually closer to \$3-4B. Most importantly, given the profile, they indicate that EBI-005 would be an exceedingly welcome addition to the treatment paradigm. Our model has "peak" sales of roughly \$500MM, but we believe this is clearly a conservative number if the initial clinical profile holds up in Phase III. Stated another way, there is no reason why EBI-005 couldn't be a \$1B+ drug, in our view.

#### The Valuation Is Attractive Here

Assuming clinical and commercial success for EBI-005 (while excluding any potential other pipeline assets, including the AC indication for EBI-005) we arrive at a base valuation of \$35 per share. This assumes that Eleven takes the product to market via their own sales force in 2017, and that by year 5 of the launch EBI-005 has reached \$500MM+ in sales. Alternatively, a potential acquirer with its own commercial infrastructure — which would significantly lower our spending assumptions in the DCF — would argue for a valuation of the EBI-005 opportunity alone of \$50-55. Given the approaching data readouts and our belief in the likelihood of clinical success, and the potential commercial outcomes, we would be adding at these levels.

# Figure 1 EBI-005 Dry Eye Market Build

ESTIMATED U.S. DRY EYE TREATMENT MARKET												
	2012	2013	2014E	2015E	2016E	2017E	2018E	2019E	2020E	CGR	Comments	
	_											
Restasis U.S. Penetration Of Est Dry Eye Market (AGN)	80%	80%	80%	78%	74%	67%	62%	56%	51%		- Leading treatment - market creator	
Estimated Patients ('000)	1,825	2,070	2,180	2,185	2,190	2,120	2,080	2,010	1,975		- Generics may not come upon market expiry; poor compliance	
Average Price Per Year Due To Low Utilization	\$685	\$720	\$765	\$805	\$845	\$885	\$930	\$975	\$1,025		- ~5% annual price increases	
Annual Prescriptions ('000)	2,820	2,955	\$3,112	\$3,119	\$3,126	\$3,026	\$2,969	\$2,869	\$2,819			
Estimated Sales U.S. (\$MM)	\$750	\$895	\$1,000	\$1,055	\$1,110	\$1,125	\$1,160	\$1,175	\$1,215	+6%	- US sales dominate	
Lifitegrast U.S. Penetration Of Est Dry Eye Market (SHPG)				4%	8%	13%	16%	20%	22%		- First treatment to address symptoms of dry eye	
Patients ('000)				39	89	159	205	266	323		- Compliance should be better than Restasis due to efficacy	
Average Price Per Year				\$1,610	\$1,690	\$1,770	\$1,860	\$1,950	\$2,050		- Priced at a premium to Restasis; and higher utilization	
Annual Prescriptions ('000)				46	106	189	244	316	384			
Estimated Sales U.S. (\$MM)				\$50	\$120	\$225	\$305	\$415	\$530		- Expected to rapidly gain market share	
EBI-005 U.S. Penetration Of Est Dry Eye Market							4%	8%	10%		- Second player to reach market that treats symptoms effectively	
Patients ('000)							81	144	186		- Potential 2018 U.S. market launch	
Average Price Per Year							\$1,860	\$1,950	\$2,050		- Pricing in-line with Lifitegrast	
Annual Prescriptions ('000)							96	172	221			
Estimated Sales U.S. (\$MM)						\$50	\$120	\$225	\$305		- Strong launch anticipated in exceedingly large market	
Steroids/Tears/Others U.S. Estimated Penetration Of Dry Eye Market	21%	20%	20%	19%	18%	17%	15%	14%	13%		- Use declines with the entrance of new, more effective products	
Patients ('000)	1.510	1.630	1.740	1.735	1.765	1.730	1.695	1.665	1.640		- Compliance low and similar to Restasis; short duration of treatment	
Average Price Per Year	\$215	\$225	\$235	\$245	\$255	\$270	\$285	\$300	\$315		- Mainly generic or low priced products	
Estimated Sales U.S. (SMM)	\$195	\$220	\$245	\$255	\$270	\$280	\$290	\$300	\$310	+6%	/ <u>/</u>	
Total U.S. Dry Eye Market Sales (MM)	\$945	\$1,115	\$1,245	\$1,360	\$1,500	\$1,680	\$1,875	\$2,115	\$2,360	+12%	- Larger % of market penetrated due to multiple treatment options	
% Growth	+15%	+18%	+12%	+9%	+10%	+12%	+12%	+13%	+12%		- Growth should be rapid given new, more effective drugs	

Source: Cowen and Company; PriceRx

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# Valuation Methodology And Risks

# **Valuation Methodology**

## Pharmaceuticals/Specialty

For our valuation methodology, we arrive at fair value utilizing a discounted cash flow (DCF) approach to derive our 12-month price target.

## **Investment Risks**

#### **Pharmaceuticals/Specialty**

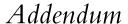
**Risks include:** (1) growing competitive dynamics in the specialty pharmaceuticals space; (2) the ability of management to execute on external growth by successfully acquiring new strategic, accretive products; (3) the ability to grow organically and keep the product pipeline robust; (4) potential regulatory delays, rejections, or failures of pipeline products; (5) economic sensitivity of any self-pay products or weakening consumer demand; (6) domestic or international pricing pressures for marketed products; and (7) failure to execute on new product launches.

# **Risks To The Price Target**

Eleven is a development-stage specialty pharmaceutical company and with that carries risk. Failure to successfully develop EBI-005 could result in a significant decrease to our valuation.

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## **Stocks Mentioned In Important Disclosures**

Ticker	Company Name
EBIO	Eleven Biotherapeutics

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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

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

Cowen Securities, formerly known as Dahlman Rose & Company, Rating System until May 25, 2013

**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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Sell – The fundamentals/valuations of the subject company are deteriorating and the investment return is expected to be 5 to 15 percentage points lower than the general market return

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

## **Cowen And Company Rating Definitions**

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Rating	Count	Ratings Distribution	Count	IB Services/Past 12 Months
Buy (a)	417	58.57%	94	22.54%
Hold (b)	279	39.19%	7	2.51%
Sell (c)	16	2.25%	0	0.00%

(a) Corresponds to "Outperform" rated stocks as defined in Cowen and Company, LLC's rating definitions. (b) Corresponds to "Market Perform" as defined in Cowen and Company, LLC's ratings definitions. (c) Corresponds to "Underperform" as defined in Cowen and Company, LLC's ratings definitions.

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## Eleven Biotherapeutics Rating History as of 08/12/2014

powered by: BlueMatrix



## 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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# Eleven Biotherapeutics

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