## **Squarex Valuation**

The valuation model following gives a Net Present Valuation of Squarex of \$119 million using extremely conservative assumptions.

SquareX Pharmaceutic Corporation	Year-1	Year-2	Year-3	Year-4	Year-5	Year-6	Year-7	Year-8	Year-9	Year-10	Year-11	Year-12	Year-13	Year-14	<u>Year-15</u>	Year-16
FDA																
					Approval											
Market Penetration					15%	30%	50%	80%	100%	100%	100%	100%	90%	80%	70%	60%
Mkt (M) Mkt Share	(%)															
Patients 7.0 50%		-	-	-	0.525	1.050	1.750	2.800	3.500	3.500	3.500	3.500	3.150	2.800	2.450	2.100
Cost/dose	-	-	-	-	\$135	\$135	\$135	\$135	\$135	\$135	\$135	\$135	\$135	\$135	\$135	\$135
Avg number of doses/year					2	2	2	2	2	2	2	2	2	2	2	2
Total Revenue (\$M)	-	-	-	-	141.8	283.5	472.5	756.0	945.0	945.0	945.0	945.0	850.5	756.0	661.5	567.0
Operations (incl CRO)	(6.4)	(12.6)	(23.0)	(23.0)	(3.0)	(3.1)	(3.2)	(3.3)	(3.4)	(3.5)	(3.6)	(3.7)	(3.8)	(3.9)	(4.0)	(4.2)
Cost of Goods Sold 15%	-	-	-		(21.3)	(42.5)	(70.9)	(113.4)	(141.8)	(141.8)	(141.8)	(141.8)	(127.6)	(113.4)	(99.2)	(85.1)
BioVentures royalties (of net revenu 5.5%	-	-	-		(6.6)	(13.3)	-	-	-	-	-	-	-	-	-	-
Sales & Marketing (of net revenue) 20%	-	-	-		(24.1)	(48.2)	(80.3)	(128.5)	(160.7)	(160.7)	(160.7)	(160.7)	(144.6)	(128.5)	(112.5)	(96.4)
Wholesalers (of net revenue) 15%	-	-	-		(18.1)	(36.1)	(60.2)	(96.4)	(120.5)	(120.5)	(120.5)	(120.5)	(108.4)	(96.4)	(84.3)	(72.3)
Total Expenses	(6.4)	(12.6)	(23.0)	(23.0)	(73.1)	(143.2)	(214.6)	(341.6)	(426.3)	(426.4)	(426.5)	(426.6)	(384.4)	(342.2)	(300.1)	(257.9)
Adjusted EBITDA	(6.4)	(12.6)	(23.0)	(23.0)	68.7	140.3	257.9	414.4	518.7	518.6	518.5	518.4	466.1	413.8	361.4	309.1
Tax Rate NOL																
Income Taxes (IRS & State) 29% 0.2	-	-	-		(1.3)	(40.7)	(74.8)	(120.2)	(150.4)	(150.4)	(150.4)	(150.3)	(135.2)	(120.0)	(104.8)	(89.6)
After Tax Cash Flow	(6.4)	(12.6)	(23.0)	(23.0)	67.4	99.6	183.1	294.2	368.3	368.2	368.2	368.1	330.9	293.8	256.6	219.5
Probability based on FDA Approval 59.4%	100.0%	100.0%	100.0%	100.0%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%	59.4%
Probability Adjusted AT Cash Flow	(6.4)	(12.6)	(23.0)	(23.0)	38.8	59.2	108.8	174.8	218.8	218.7	218.7	218.6	196.6	174.5	152.4	130.4
Discount NPV (SM)																
NPV After Tax Cash Flow 30.0% 225																
NPV Probability Adj AT Cash Flow 30.0% 119																
NPV in year 4 upon FDA approval 15.0% 1380																
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The key assumptions of the model are

- No sales outside U.S.
- No sales to persons with fewer than 6 cold sore episodes per year.
- Treating 50% of U.S. persons with 6 or more outbreaks.
- Sales of 2 doses per year on average to those persons instead of the recommended four doses.
- Four years to FDA approval. We think three years is feasible.
- 59.4% chance of FDA approval, which is the historical norm for drugs after Phase 2. In our case, the drug has been effective in 3 of 3 clinical trials with no serious adverse events, so we think the chance of FDA approval is actually higher than that.
- Discount rate of 30%. That is high. 25% would be more reasonable and would result in a higher valuation.

Those assumptions are all conservative. In particular, it is reasonable to assume that sales to people with 1-5 outbreaks per year will be approximately the same as to persons with 6+ outbreaks and that foreign sales and profits will be about the same in total as U.S. sales. Those two changes would quadruple the valuation.

The model also assumes no revenue from sales for other diseases, and we plan to seek FDA approval for other diseases.

Once we have FDA approval, nearly all the risk has been removed and the the sales from that point forward would be fairly certain. A fair valuation at that point, in three to four years, would be over \$1 billion just based on U.S. sales to persons with 6+ outbreaks per year only. Including foreign revenue and revenue from persons with 1-5 outbreaks would quadruple that valuation.

Thus, an increase of valuation from \$22 million at the share price of this offering to about \$5 billion after FDA approval in four years or less seems quite possible.