

Aldeyra Therapeutics (ALDX - \$ 6.65)

Robust NS2 in Sjögren-Larsson Syndrome Phase II Results

This morning, ALDX reported positive NS2 in Sjögren-Larsson Syndrome (SLS) Phase II results as the drug significantly reduced multiple symptoms vs. placebo with acceptable safety profile.

- Details.** This morning ALDX reported positive NS2 in SLS (n=12) Phase II results, which met endpoint of Ichthyosis Severity Score (ISS). Specifically, 83% (5/6) of NS2 treated vs. 20% (1/5) vehicle-treated patients achieved composite ISS of ≤ 5 at week 8 (p=0.04). 83% (5/6) of NS2 treated vs. 17% (1/6) vehicle-treated patient achieved ≥ 2 point reduction from baseline in composite ISS at week 8 (p=0.02). From central reader digital photography assessment, ISS reduction observed between NS2 vs. vehicle (~ -2.5 vs. -1 with p<0.05). The reduction was also observed in several individual symptoms, such as erythema, lichenification, excoriation and global score. All NS2-treated patients (n=6) exhibited greater ISS reduction after 8 weeks of therapy comparing after 4 weeks of therapy, potentially suggesting a disease modifying effect. Analysis of biomarker changes (mainly various types of lipid) is correlated with treatment effects. The study is a randomized, parallel-group, double-blind, vehicle-controlled, multi-center Phase II trial that evaluated topical 1.0% NS2 in SLS patients in 8-week treatment. NS2 is administered once-daily (QD) on a 4x10 inch area of skin mainly on the leg.
- Implications.** We are very encouraged by the positive results of topical NS2 in SLS treatment and the outcome has well validated the therapeutic utility of aldehyde trapping in treating both inflammation and disorders directly due to metabolic defect of aldehyde removal. ALDX is scheduled to conduct meetings with the U.S. and some EU regulatory agencies later to determine the next steps. ALDX also reiterated its plan to start systemic NS2 clinical studies in 2017 for treating SSADH and to provide more details regarding the overall developments of various clinical programs over the 2Q16 earnings call scheduled tomorrow morning. We continue to view the potential success of aldehyde trapping in ultra-orphan indications, like SLS and SSADH as being a potential major value driver for ALDX shareholders; while treatment for inflammation-related indications would be an ultimate jackpot.
- Action.** We are reiterating our Buy rating and our \$30 target price based on peer comparable probability adjusted DCF analyses. Clinical NS2 development in orphan and inflammatory indications are all under study. We view the ALDX shares remain under-exposed and under-valued.

Earnings Estimates: (per share)

(Dec)	1Q	2Q	3Q	4Q	FY	P/E
FY-16E	-0.51A	-0.53	-0.54	-0.55	-2.13	N.A.
FY-15A	-0.32	-0.27	-0.35	-0.45	-1.40	N.A.
FY-14A	-0.04	-1.43	-0.36	-0.39	-2.51	N.A.
FY-13A	-13.03	-5.47	2.76	18.47	3.49	N.A.

Source: Laidlaw & Company estimates

Healthcare/Biotechnology

Ticker: **ALDX**
 Rating: **Buy**
 Price Target: **\$ 30.00**

Trading Data:

Last Price (08/09/2016)	\$ 6.65
52-Week High (8/10/2015)	\$ 9.22
52-Week Low (2/9/2016)	\$ 3.39
Market Cap. (MM)	\$ 83
Shares Out. (MM)	12

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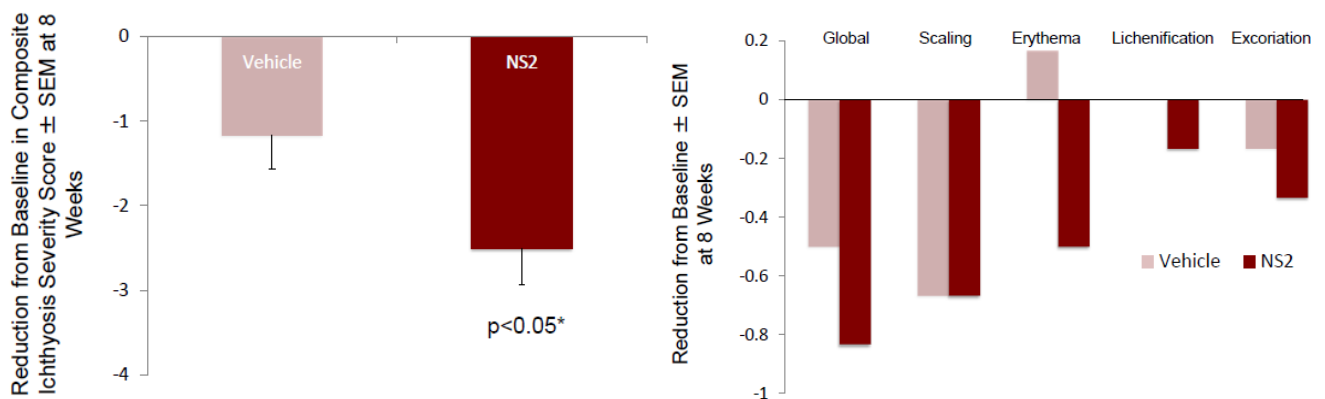
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Figure 1: NS2 demonstrated clinical activity in treating SLS

Digital Photography Central Review	NS2	Vehicle	Unadjusted Chi Square p value [#]
Subjects with composite Ichthyosis Severity Score of ≤ 5 at Week 8 (average rating of "almost clear")	5/6 (83%)	1/5 (20%)*	0.04
Subjects with ≥ 2 point reduction from baseline in composite Ichthyosis Severity Score at Week 8	5/6 (83%)	1/6 (17%)	0.02

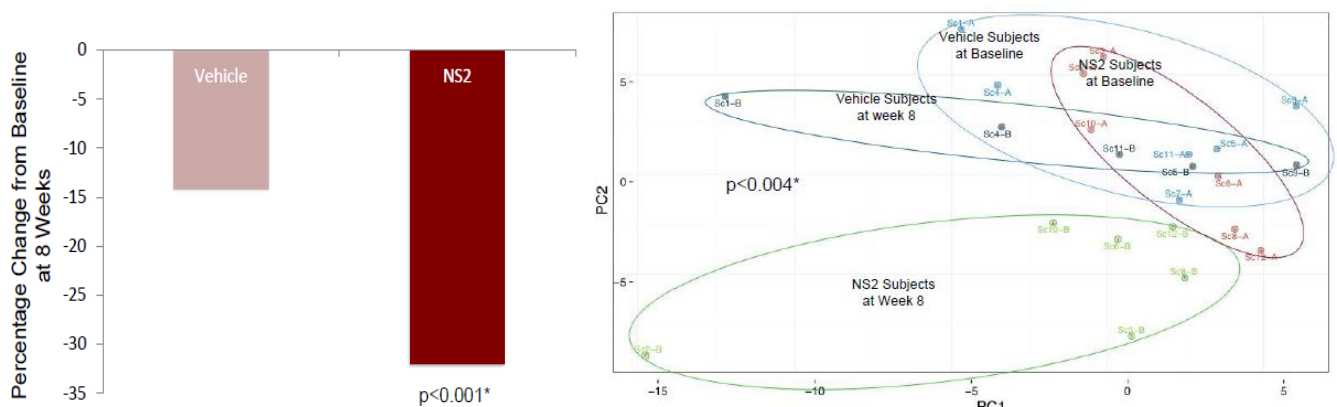
Source: Company presentation

Figure 2: NS2 reduced Ichthyosis Severity Score and individual symptoms by central reader digital photography assessment



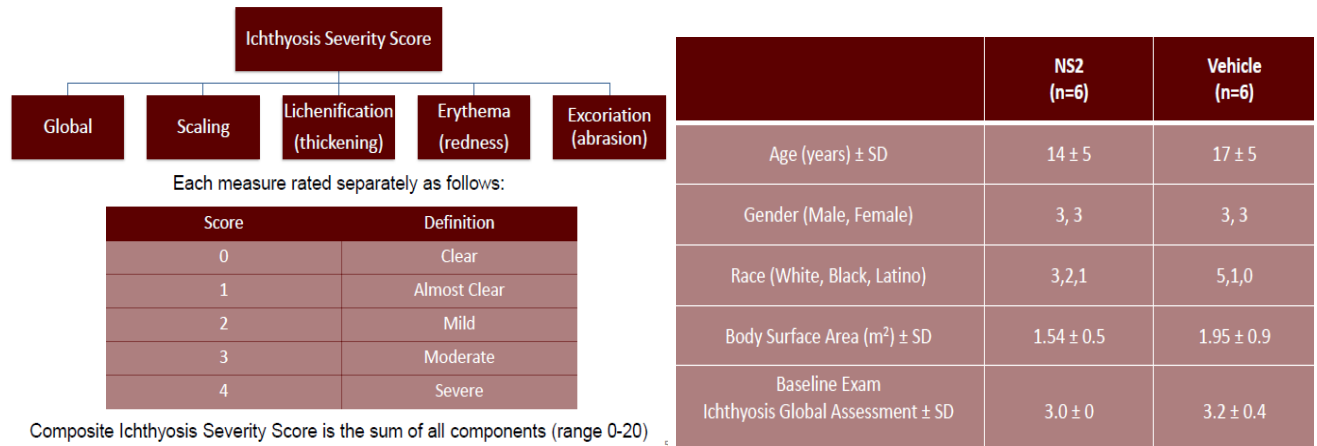
Source: Company presentation

Figure 3: NS2 increased skin cholesterol reduction (left) and improved biomarker profile (right)



Source: Company presentation

Figure 4: Ichthyosis Severity Score (left) and patient baseline characteristics (right)



Source: Company presentation

Anticipated milestones in 2016 and beyond

Product	Indication	Event	Timing	Importance
NS2 cream	Sjögren-Larsson Syndrome (SLS)	Discussions with regulatory agencies	2H16	***
NS2 eyedrop	Noninfectious anterior uveitis	Potentially conduct pre-IND meeting with the FDA	2H16	***
		Potentially start Phase II/III dose-optimizing trial	4Q16	***
		Potentially report Phase II/III study top-line results	2017	****
	Allergic conjunctivitis	Potentially conduct pre-IND meeting with the FDA	2H16	***
		Potentially start Phase II/III dose-optimizing trial	4Q16	***
		Potentially report Phase II/III study top-line results	2017	****
Systemic delivered (IV) NS2	Succinic Semi-aldehyde Dehydrogenase (SSADH) Deficiency, CNS disorders of SLS and /or autoimmune disorders	Potentially report pre-clinical data	2016	***
		Potentially to start Phase I studies	2H16	****
		Potentially to start Phase II studies	2017	***

**** / ***** Major catalyst event that could impact share price very significantly while *** event is more informative

Source: Laidlaw & Company and company presentation

Major Risks

Risks of clinical study failure could have a major impact on ALDX share value. Although promising aspects of the company's lead products, NS2 in the two indications under clinical trials; it remains too early to predict the safety and efficacy from the two ongoing Phase II studies. The clinical validation for these programs has not been established. The success of the each study could illustrate NS2 treatment potential of separate disease areas. It is important that one or both studies demonstrate a positive outcome in order to increase the company's assets and shareholder value. Negative results of either of the Phase II studies could impair shareholder value. Further, should these programs further advance into later clinical stage development, it remains too early to predict any potential success of such clinical trials. In SLS, it is possible that elevated fatty alcohol, instead of elevated aldehyde, affects the progression of the disease. If so, NS2 might not have the therapeutic effect on of elevated fatty alcohol levels. We view this to be a very modest risk, however.

Products may not be approved or reach anticipated sales. Aldeyra's current pipeline products have exhibited the potential to generate positive clinical outcomes from current and future trials. However it remains too early to project whether any of these products will be approved by regulatory agencies. Even if the products were to enter the market, sales could be significantly below projections due to the specific product label under approval, physician consensus for prescribing the drug, changes of treatment paradigms, entrance of competitors, and possibly the changes in pricing flexibility and payer reimbursement. A revenue outlook below expectations could also negatively affect ALDX shareholder value.

Limited product offering and further validation of technology represent limited diversification to investors. The major technology platform of ALDX is aldehyde trapping and the company currently has only one drug, NS2, in two different delivery forms, in clinical studies. As such, ALDX has a very concentrated product offering portfolio and hence, exhibits limited diversification for investors. In addition, although aldehyde trapping is a novel and logical approach in drug development, it remains too early to gain greater buy-in within medical and investor communities since clinical validation remains very limited.

Additional financings could dilute shareholder value. Although the company currently has ~\$17MM (pro forma) cash after recent financing, ALDX could need more financial resources going forward if they want to expand and further develop its pipeline. Should the product not receive FDA approval, or product revenue does not reach expectations; the company might need to issue new equity to raise additional cash. Under such a scenario, the share value of existing shareholders could be diluted.

Limited trading liquidity limits shareholder options. Given ALDX shares only entered the public market recently; daily trading volume and name recognition are relatively modest. With relatively illiquid trading volume, shareholders wanting to increase or reduce their positions in a volatile stock market may face constraints.

Figure 1: Income Statement

Aldeyra Therapeutics – Income Statement											
(\$'000)	2014	2015	1Q16	2Q16E	3Q16E	4Q16E	2016E	2017E	2018E	2019E	2020E
Revenue											
Product revenue	0	0	-	-	-	-	0	1,492	12,162	49,287	123,139
Other revenue	0	0	-	-	-	-	0	0	0	0	0
Total revenue	0	0	-	-	-	-	0	1,492	12,162	49,287	123,139
Costs of goods								134	1,095	4,436	11,083
Gross sales								1,358	11,067	44,851	112,057
Research and development	3,708	7,574	3,511	3,757	3,870	3,947	15,086	17,047	18,582	20,254	21,874
General and administrative	3,563	4,415	1,456	1,470	1,485	1,529	5,940	6,771	7,110	7,465	7,839
Marketing and sales								15,000	16,500	25,575	26,854
Total Operating Expenses	7,271	11,989	4,967	5,227	5,355	5,477	21,026	38,819	42,192	53,294	56,567
Operating Incomes (losses)	(7,271)	(11,989)	(4,967)	(5,227)	(5,355)	(5,477)	(21,026)	(37,461)	(31,125)	(8,443)	55,490
Change in fair value of preferred stock warrant liabilities	2,328	0	-	-	-	-	0	0	0	0	0
Change in fair value of convertible preferred stock rights and rights	0	0	-	-	-	-	0	0	0	0	0
Value provided in excess of issuance price of Series B convertible preferred stock	0	0	-	-	-	-	0	0	0	0	0
Interest income	0	11	25	24	23	22	94	103	113	125	125
Other expenses		0	-	-	-	-	0	0	0	0	0
Interest expense	(244)	(113)	(25)	(25)	(25)	(25)	(100)	(100)	(100)	(100)	(100)
Total Other Income (Expense)	2,083	(102)	(0)	(1)	(2)	(3)	(6)	3	13	25	25
Net loss and comprehensive loss	(5,187)	(12,091)	(4,967)	(5,228)	(5,357)	(5,480)	(21,032)	(37,458)	(31,111)	(8,418)	55,515
Accretion of preferred stock	(333)	0	-	-	-	-	0	0	0	0	0
Allocation of undistributed earnings to preferred stockholders	0	0	-	-	-	-	0	0	0	0	0
Deemed dividend	(4,054)	0	-	-	-	-	0	0	0	0	0
Tax	0	0	-	-	-	-	0	0	0	0	(20,540)
Net Income (Loss)	(9,574)	(12,091)	(4,967)	(5,228)	(5,357)	(5,480)	(21,032)	(37,458)	(31,111)	(8,418)	34,974
Net Income (Loss) Applicable to Common Shareholders	(9,574)	(12,091)	(4,967)	(5,228)	(5,357)	(5,480)	(21,032)	(37,458)	(31,111)	(8,418)	34,974
Net Earnings (Losses) Per Share—Basic	(\$2.51)	(\$1.40)	(\$0.51)	(\$0.53)	(\$0.54)	(\$0.55)	(\$2.13)	(\$3.16)	(\$2.42)	(\$0.61)	\$2.35
Net Earnings (Losses) Per Share—Diluted	(\$3.09)	(\$1.40)	(\$0.51)	(\$0.53)	(\$0.54)	(\$0.55)	(\$2.13)	(\$3.16)	(\$2.42)	(\$0.61)	\$2.35
Shares outstanding—basic	3,818	8,634	9,713	9,813	9,913	10,013	9,863	11,863	12,863	13,863	14,863
Shares outstanding—diluted	3,851	8,634	9,713	9,813	9,913	10,013	9,863	11,863	12,863	13,863	14,863
Margin Analysis (% of Sales/Revenue)											
Costs of goods								9%	9%	9%	9%
R&D	NA	NA	NA	NA	NA	NA	NA	1142%	153%	41%	18%
SG&A	NA	NA	NA	NA	NA	NA	NA	454%	58%	15%	6%
Operating Income (loss)	NA	NA	NA	NA	NA	NA	NA	-2511%	-256%	-17%	45%
Net Income	NA	NA	NA	NA	NA	NA	NA	-2510%	-256%	-17%	28%
Financial Indicator Growth Analysis (YoY%)											
Total Revenue	NA	NA	NA	NA	NA	NA	NA	NA	715%	305%	150%
R&D	140%	104%	209%	201%	86%	27%	99%	13%	9%	9%	8%
SG&A	67%	24%	50%	54%	18%	25%	35%	14%	5%	5%	5%
Marketing and sales									10%	55%	5%
Operating Income (Losses)	98%	65%	136%	137%	60%	26%	75%	78%	-17%	-73%	-757%
Pretax Income	-140%	133%	132%	134%	59%	25%	74%	78%	-17%	-73%	-759%
Net Income	-963%	26%	132%	134%	59%	25%	74%	78%	-17%	-73%	-515%
EPS	-172%	-44%	60%	100%	56%	22%	52%	48%	-23%	-75%	-487%
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Source: Bloomberg LP; Company reports; Laidlaw & Company estimates

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Rating and Price Target Change History



Source: Laidlaw & Company

Created by: Blue-Compass.net

3 Year Rating Change History

Date	Rating	Closing Price (\$)
01/26/2015	Buy (B)	9.86

3 Year Price Change History

Date	Target Price (\$)	Closing Price, (\$)
01/26/2015	30.00	9.86

Laidlaw & Company Rating System*		% of Companies Under Coverage With This Rating	% of Companies for which Laidlaw & Company has performed services for in the last 12 months	
			Investment Banking	Brokerage
Strong Buy (SB)	Expected to significantly outperform the sector over 12 months.	0.00%	0.00%	0.00%
Buy (B)	Expected to outperform the sector average over 12 months.	62.16%	27.03%	2.70%
Hold (H)	Expected returns to be in line with the sector average over 12 months.	2.70%	0.00%	0.00%
Sell (S)	Returns expected to significantly underperform the sector average over 12 months.	2.70%	0.00%	0.00%

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