USA | Healthcare | Biotechnology

August 8, 2014

Dicerna Pharmaceuticals (DRNA) 2Q14 Update: Data Readouts Expected in 2015

Key Takeaway

We expect three Phase 1 trials to begin enrolling by 1H15, two for MYC and one for PH1. Key initial data for MYC and PH1 are expected in 2H15; a competitor program in PH1 should have results by year-end. We maintain our Buy rating and \$48 price target.

DCR-MYC Program On Track. The first dose-finding Phase 1 trial in solid tumors, multiple myeloma, and lymphomas began enrollment in April. A first release of data is expected no later than 2H15. This trial will also include an expansion cohort treated at the maximum tolerated dose. Further, a second Phase 1 trial in advanced hepatocellular carcinoma (HCC) is expected to begin in Asia in 2H14. We view this program as high risk and assume a low probability of success in our valuation.

DCR-PH1 Clinical Program Expected To Kick Off In 2015; Competitive Data At Year End. We continue to expect a 50% reduction in urinary oxalate to be an acceptable endpoint for approval, based on expert commentary at the International Primary Hyperoxaluria Workshop in June. With the Phase 1 trial, we expect proof-of-concept results by 2H15. On the competitive landscape, Oxthera's Oxabact is expected to have data in December, using a 30% reduction at Week 8 as a responder endpoint. We continue to expect DCR-PH1 to be superior to Oxabact, which has had issues with bioavailability in the gut. On the call, DRNA noted that it expects DCR-PH1 to show benefit in all patients with PH1, including those with less severe disease. DRNA held an advisory board meeting with thought leaders who made it clear that reduction in oxalate levels would be beneficial for all genotypes. We note that PH1 patients with a specific genotype accounting for ~25% of the population respond well to Vitamin B6 therapy, which reduced oxalate levels by 70%+.

Financials: DRNA reiterated its expectation that it would have sufficient cash to fund operations through 2016. The company ended 2Q14 with \$120m in cash/equivalents.

Valuation/Risks

We derive our \$48 price target on a DCF based sum-of-parts valuation. Risks include: clinical, regulatory, and commercial.

USD	Prev.	2014E	Prev.	2015E	Prev.	Prev.	
Rev. (MM)		0.0		0.0		 	
EPS							
Mar		(0.56)A				 	
Jun	(0.40)	(0.51)A				 	
Sep	(0.42)	(0.53)				 	
Dec	(0.44)	(0.56)				 	
FY Dec	(1.77)	(2.15)	(2.38)	(2.48)		 	
FY P/E		NM		NM			
				_			

Limited historical data due to recent company IPO

Price target \$48.00 Price \$14.35

Financial Summary	
Net Debt (MM):	(\$140.0)
Cash (MM):	\$140.0
Market Data	
52 Week Range:	\$46.00 - \$14.09
Total Entprs. Value (MM):	\$111.1
Market Cap. (MM):	\$251.1
Insider Ownership:	43.3%
Institutional Ownership:	38.3%
Shares Out. (MM):	17.5
Float (MM):	8.8
Avg. Daily Vol.:	168,331

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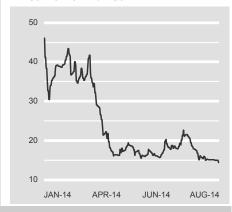
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Price Performance



DRNA

Estimate Change

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DRNA: Historical and Projected Revenue and Earnings

December 31 Fiscal Year (\$000s, except per share)	2012	2013	1Q14A	2Q14A	3Q14E	4Q14E	2014	2015	2016	2017	2018	2019	2020	2021	2022
End User Sales										45 504	62.225	406 703	454544	204 440	245.070
U.S. PH1 Sales		0	0	0	0	0	0	0	0	15,581	63,225	106,783	154,514	201,448	245,079
Ex-U.S. PH1 Sales		0	-	-	0	0	-	0		22,073	89,895	155,040	224,326	293,117	355,972
WW PH1 Sales		0	0	0	0	0	0	0	0	37,654	153,120	261,823	378,840	494,565	601,051
WW DCR-M1711 Sales		0	0	0	0	0	0	0	0	0	0	0	66,150	667,229	1,829,961
Dicerna Reported Revenue															
U.S. PH1 Sales		0	0	0	0	0	0	0	0	15,581	63,225	106,783	154,514	201,448	245,079
Ex-U.S. PH1 Royalties		0	0	0	0	0	0	0	0	4,415	19,974	36,512	57,298	77,935	96,792
DCR-M1711 Royalties		0	0	0	0	0	0	0	0	0	0	9,922	100,084	274,494	451,193
Milestones		0	0	0	0	0	0	0	50,000	125,000	25,000	25,000	125,000	75,000	75,000
Other Revenue		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revenue	7,015	0	0	0	0	o	0	0	50,000	144.996	108,199	178,217	436,897	628,877	868,063
Operating expenses:															
COGS	0	0	0	0	0	0	0	0	0	1,558	5,058	7,475	10,816	14,101	17,156
% of Product Sales	NM	NM	NM	NM	NM	NM	NM	NM	NM	10%	8%	7%	7%	7%	7%
Research and Development	11,551	11,434	3,525	5,920	6,500	7,000	22,945	36,000	50,000	62,000	68,200	75,020	90,024	108,029	129,635
% of Revenue	NM	NM	NM	NM	NM	NM	NM	NM	NM	43%	63%	42%	21%	17%	15%
SG&A	4,589	5,449	2,355	2,853	3,000	3,100	11,308	13,000	18,000	31,000	38,000	41,000	44,300	47,115	49,021
% of Revenue	NM	NM	NM	NM	NM	NM	NM	NM	NM	21%	35%	23%	10%	7%	6%
Total Operating Expenses	16,265	16,883	5,880	8,773	9,500	10,100	34,253	49,000	68,000	94,558	111,258	123,495	145,140	169,245	195,811
Income (Loss) from operations	(9,250)	(16,883)	(5,880)	(8,773)	(9,500)	(10,100)	(34,253)	(49,000)	(18,000)	50,438	(3,059)	54,722	291,757	459,632	672,253
Other towns (see and															
Other income (expense): Preferred stock warrant remeasurement	469	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Interest income	409	0	0	0	144	132	277	503	559	731	823	923	1,487	2,637	4,386
	2	0	0	0	0	132	0	503	559	731	023	923	1,467	2,037	4,360
Loss on extinguishment of debt	(1,342)	(1,140)	(153)	(177)	(69)	(69)	(469)	0	0	0	0	0	ا ا	0	0
Interest expense	(1,342)	(1,140)	(153)	(1//)	(69)	(69)	(409)	U	U	U	U	U	١	U	U
Total other income (expense)	(871)	(1,140)	(153)	(177)	75	63	(192)	503	559	731	823	923	1,487	2,638	4,388
Pre-tax income	(10,121)	(18,023)	(6,033)	(8,950)	(9,425)	(10,037)	(34,445)	(48,497)	(17,441)	51,168	(2,237)	55,645	293,244	462,270	676,641
		, , ,													
Tax	0	0	0	0	0	0	0	0	0	18,932	0	20,589	108,500	171,040	250,357
Tax rate										37%	0%	37%	37%	37%	37%
Less: Accretion and dividends on redeemable convertible preferred stock	(4,097)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net loss	(14,218)	(18,023)	(6,033)	(8,950)	(9,425)	(10,037)	(34,445)	(48,497)	(17,441)	32,236	(2,237)	35,057	184,744	291,230	426,284
Non-GAAP EPS	\$ (516.00)	\$ (611.72)	\$ (0.56) \$	(0.51) \$	(0.53) \$	(0.56)	\$ (2.15)	\$ (2.48)	\$ (0.78)	\$ 1.34	\$ (0.09)	\$ 1.38	\$ 7.03	\$ 10.70	\$ 15.07
Pro forma weighted average shares outstanding	28	29	10.822	17,685	17,735	17,785	16,007	19,553	22,378	24,003	24,678	25,428	26,278	27,228	28,280
	20	25	10,011	_,,,,,,,	1,,,,,,,	17,700	10,007	15,555	22,370	2-1,003	2-1,070	23,-720	20,270	27,220	20,200

Source: Company data, Jefferies Group LLC estimate

8/8/2014

DRNA

Estimate Change

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DRNA: Historical and Projected Changes in Financial Position

December 31 Fiscal Year (\$000s, except per share)	2012A	2013A	2014E	2015E	2016E	2017E	2018E	2019E	2020E	2021E	2022E
CASH FLOWS FROM OPERATING ACTIVITIES:											
Net los s	(10,121)	(18,023)	(34,445)	(48,497)	(17,441)	32,236	(2,237)	35,057	184,744	291,230	426,284
Adjustments to reconcile net loss to net cash used in operating activitie	, , ,	` , ,	. , ,	` , ,	. , ,	,	. , ,	•	,	•	,
Deferred revenue	(1,014)										
Depreciation	551	523	575	632	696	765	842	926	1,019	1,120	1,232
S tock-based compensation		495							,	,	, -
Loss on extinguishment of debt	-	318									
Non-cash interest expense	-										
A mortization of debt discount	201	193									
A mortization of debt is suance costs	24	24									
Utilization of NOL Carryforwards			-	-	-	18,932	-	20,589	-	-	-
Decrease in fair value of preferred stock warrant	(469)	(126)				,		•			
Changes in operating assets and liabilities:	(/	(-/									
Research and license receivable	(4,857)	5,018	-	-	-	_	_	-	_	_	_
Prepaid expenses and other current assets	28	57									
Accounts payable	(216)	116									
Accrued expenses and other current liabilities	49	1,016									
Deferred rent	(38)	(60)									
Net cash used in operating activities	(15,737)	(10,449)	(33,870)	(47,865)	(16,745)	51,934	(1,395)	56,571	185,762	292,350	427,516
CASH FLOWS FROM INVESTING ACTIVITIES —											
Purchases of property and equipment	(120)	(413)	(496)	(595)	(5,947)	(6,542)	(7,196)	(7,916)	(8,707)	(9,578)	(10,536)
Net cash used in investing activities	(120)	(413)	(496)	(595)	(5,947)	(6,542)	(7,196)	(7,916)	(8,707)	(9,578)	(10,536)
CASH FLOWS FROM FINANCING ACTIVITIES:											
Proceeds from is suance of common stock	7	46	92,955	47,940	46,022	-	-	-	-	-	-
Repurchase of restricted common stock	-	(5)									
Payments of deferred is suance costs	-	(1,399)									
Proceeds from is suance of redeemable convertible preferred stock	-	57,000									
Redeemable convertible preferred stock is suance costs	-	(220)									
Proceeds fromlong-term debt	-	-									
Proceeds from bridge loan financing	-	3,000									
Payments of long-term debt is suance costs	-	-									
Payments of long-term debt fees	(136)	-									
Repayments of long-term debt principal	(2,834)	(4,140)	(4,587)	(439)							
Net cash provided by (used in) financing activities	(2,963)	54,282	88,368	47,501	46,022	-	-	-	-	-	-
INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	(18,820)	43,420	54,002	(958)	23,330	45,392	(8,591)	48,656	177,055	282,772	416,980
CASH AND CASH EQUIVALENTS – Beginning of period	22,490	3,670	47,090	101,092	100,134	123,464	168,855	160,264	208,920	385,975	668,747
CASH AND CASH EQUIVALENTS — End of period	3,670	47,090	101,092	100,134	123,464	168,855	160,264	208,920	385,975	668,747	1,085,727

Source: Company data, Jefferies Group LLC estimate

Please see important disclosure information on pages 5 - 8 of this report.

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DRNA: Historical Condensed Balance Sheets

(\$000s)	12/31/2011	12/31/2012	9/30/2013	12/31/2013	3/31/2014	6/30/2014
ASSETS						
CURRENT ASSETS:						
Cash and cash equivalents	22,490	3,670	54,712	46,595	133,792	77,732
Held-to-maturity investments						22,526
Research and license agreement receivable	161	5,018	-	-	-	-
Prepaid expenses and other current assets	372	344	413	2,058	906	1,016
Total current assets	23,023	9,032	55,125	48,653	134,698	101,274
NONCURRENT ASSETS:						
Property and equipment-net	1,314	883	683	877	911	1,473
Held-to-maturity investments						20,026
Restricted cash	264	264	264	264	264	1,380
Other assets	36	12	-	-	-	-
Total noncurrent assets	1,614	1,159	947	1,141	1,175	22,879
TOTAL ASSETS	24,637	10,191	56,072	49,794	135,873	124,153
LIABILITIES AND STOCKHOLDERS' EQUITY						
CURRENT LIABILITIES:						
Accounts payable	1,414	1,198	1,557	1,700	715	1,062
Current portion of long-term debt	2,834	4,140	4,471	4,587	3,785	-
Deferred revenue	830	-	-	-	-	-
Deferred rent	-	63	14	105	96	88
Accrued expenses and other current liabilities	221	270	518	1,286	1,947	2,808
Total current liabilities	5,299	5,671	6,560	7,678	6,543	3,958
NONCURRENT LIABILITIES:						
Long-term debt-net of current portion	8,735	4,660	1,407	260	-	-
Preferred stock warrant liability	800	331	436	529	-	-
Deferred revenue-net of current portion	184	-	-	-	-	-
Deferred rent-net of current portion	101	-	-	-	-	-
Total noncurrent liabilities	9,820	4,991	1,843	789	-	-
TOTAL LIABILITIES	15,119	10,662	8,403	8,467	6,543	3,958
Total stockholders' equity (deficit)	9,518	(471)	47,669	41,327	129,330	120,195
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	24,637	10,191	56,072	49,794	135,873	124,153

Source: Company data, Jefferies Group LLC, Inc. estimates

August 7, 2014

Thomas Wei, Equity Analyst, (212) 284-2326, twei@jefferies.com

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Company Description

Dicerna Pharmaceuticals is a Watertown, MA-based therapeutics company focused on developing RNA interference (RNAi) technologies targeting liver and cancer. Dicerna has partnered two oncology development programs with the global pharmaceutical company Kyowa Hakko Kirin Co., Ltd. (KHK) targeting KRAS and CKAP5. DRNA's unpartnered programs are DCR-PH1 for Type 1 primary hyperoxaluria, a rare orphan disease resulting in renal failure, and DCR-M1711 targeting MYC for solid tumors.

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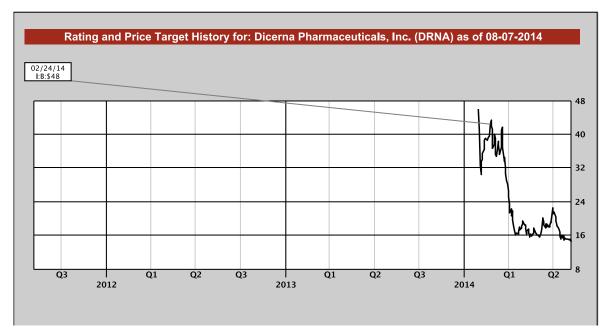
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Distribution of Ratings

			IB Serv./Pa	ast 12 Mos.
Rating	Count	Percent	Count	Percent
BUY	968	51.63%	252	26.03%
HOLD	758	40.43%	122	16.09%
UNDERPERFORM	149	7.95%	8	5.37%

DRNA	
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