

OPKO Health, Inc. (OPK - \$ 9.23)

Analyst Day Showcased Major Asset Developments

OPK hosted an Analyst Day yesterday highlighting key developments, which include hGH-CTP, Bio Reference Labs (BRL), 4Kscore test and Rayaldee.

- Pediatric hGH-CTP (MOD-4023) Phase III study to start in 2H16.** Dr. Ronald Rosenfeld from the Oregon Health & Science University indicated the insufficient compliance for treatment in pediatric growth hormone deficiency (GHD) patients has resulted in less effective treatment, and emphasized the need for infrequent dosing long-acting growth hormone to improve the outcome vs. current daily administered SOC. The presentation also demonstrated that MOD-4023 has several desired attributes, including non-immunogenic and administered via small needle with low volume of single injection. Earlier Phase II study illustrated MOD-4023 exhibited on par performance as daily administered Genotropin by achieving 11 cm and 8.7 cm growth per year of the 1st and 2nd year, respectively, during treatment. Pediatric MOD-4023 Phase III study could start in 3Q16; while adult MOD-4023 Phase III study results could be available in late 2H16.
- Substantial buy-in of primary care practitioners (PCP) is critical for commercial success of 4Kscore test.** Dr. Matthew Rosenberg, a Michigan PCP, reported that ~90% of PSA tests were ordered by PCP (internal medicine 65% and family medicine 24%) while only 6% were ordered by urologists. The 4Kscore test is a reflex test to be performed after the PSA test (which may have a high false positive reading) and could provide better predictive value illustrating patient's risk status. Convincing PCP to incorporate 4Kscore test as part of overall prostate cancer screening protocol for patients with PSA > 1.5 ng/ml (~27% that took PSA test) could potentially benefit patients, providers, and the test's commercial outlook. A panel indicated that the number of PSA tests in the U.S. is in modest decline after the recommendation by the U.S. Preventive Services Task Force in 2012; while incidences of more severe prostate cancer have increased recently. Adding 4Kscore test into the mix could potentially enhance the overall value in prostate cancer screening and potentially be more cost-effective. The panel also indicated that substantial education is needed for gaining buy-in by PCP to add 4Kscore test in their practice.
- Action.** We are reiterating our Buy rating and \$22 price to reflect our bullish view on progress in OPK's multiple drivers in place, especially the 4Kscore test, Rayaldee, VARUBI (rolapitant) and hGH-CTP (MOD-4023). Our valuation is based on our DCF analyses.

Earnings Estimates: (per share)

(Dec)	1Q	2Q	3Q	4Q	FY	P/E
FY-16E	-0.02A	-0.04	-0.01	-0.01	-0.08	NM
FY-15A	-0.26	-0.09	0.26	0.00	-0.06	NM
FY-14A	-0.11	-0.06	-0.11	-0.12	-0.41	NM
FY-13A	-0.11	-0.01	-0.17	-0.04	-0.32	NM

Source: Laidlaw & Company estimates

Healthcare/Biotechnology

Ticker:	OPK
Rating:	Buy
Price Target:	\$ 22.00

Trading Data:

Last Price (06/15/2016)	\$ 9.23
52-Week High (7/24/2015)	\$ 17.51
52-Week Low (1/20/2016)	\$ 7.12
Market Cap. (MM)	\$ 5,050
Shares Out. (MM)	547

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- **GeneDX could be one of growth focuses for BRL.** BRL's new President, Dr. Gregory Henderson, indicated that GeneDX could be an important growth engine for BRL and the system has gained worldwide recognition with specimens received from 250+ providers in 55 countries. They have conducted rapid exome sequencing test called XomeDxXpress for more than 37,000 exomes of many rare disease patients and established phenotypic and genotypic correlations. Exome sequencing is a targeted sequencing approach that is restricted to the protein-coding regions of genomes. Although it is estimated that the exome only encompasses ~1% of the genome, it contains ~85% of disease-causing mutations¹.
- **Rayaldee approval could occur before scheduled PDUFA date.** Management indicated that since the FDA has accepted the plan for improving Catalent's plant, it is possible that the agency could approve Rayaldee prior to the scheduled Oct. 22, 2016 PDUFA date. Dr. Charles Bishop, CEO of OPKO Renal, reported that OPK plans to start a Phase III study evaluating Rayaldee in secondary hyperparathyroidism (SHPT) in end stage renal disease (ESRD) patients with vitamin D insufficiency, possibly in 2017. Earlier clinical studies have indicated that ESRD patients require greater doses of vitamin D prohormone (25-hydroxyvitamin D) to reduce plasma parathyroid hormone (PTH) comparing to chronic kidney disease (CKD) patients. A major advantage of Rayaldee over vitamin D hormone (1,25-dihydroxyvitamin D) is the lack of increase of serum calcium and phosphorus, which could escalate softening of the bone and vascular calcification – the latter is a leading cause of cardiovascular complication, morbidity, and possibly mortality.

¹Liu, Qi et al. (2012), *BMC Genomics* 13:692

Anticipated milestones in 2016 and beyond

Product	Indication	Event	Timing	Importance
Rayaldee	SHPT in CKD Stage 3-4 patients	Build M&S organization	2016	***
		FDA PDUFA date	Oct. 22, 2016	****
		Product launch	4Q16	***
		Potential include in for formulary of healthcare plans	2017	****
		Potential EMEA filing	1H17	***
		Potential EU approval	1H18	****
Rolapitant (VARUBI)	Chemotherapy -induced nausea and vomiting (CINV)	Potential approval of the IV version (PDUFA date)	Jan. 11, 2017	****
hGH-CTP (MOD-4023)	hGH deficiency	Report of Phase III study top-line results	4Q16	****
		Potential product approval for adult hGH deficiency	2H17	***
		Potential commencement of pediatric Phase III study	2H16	***
		Report of Phase III pediatric study top-line results	2018	****
4Kscore test	Prostate cancer diagnostics	CMS reimbursement decisions	2016	****
		Potential private payer reimbursement decision	2016 - 2017	****
Claros 1 testosterone test	POC testosterone test	Potential 510(k) filing	2H16	***
		Potential approval	2017	****
Claros 1 PSA test	POC PSA test	Modular PMA filing	2H16	***
		Potential approval	2017	****
Claros 1 vitamin D test	POC vitamin D test	Potential 510(k) filing	1Q17	****
		Potential approval	2017	****
MOD-5014 (IV)	Hemophilia A/B with inhibitors	Potentially report Phase I/IIa study top-line results	4Q16	****
		Potentially start Phase II/III study	1H17	***
		Potentially report Phase II/III study results	2Q18	****
MOD-5014 (s.c)		Potentially start Phase I study	Mid-16	***
		Potentially report Phase I study results	1Q17	****
		Potentially start Phase II study	2H17	***
	Potentially report Phase II study results	Mid-18	***	
MOD-6031	Obesity	Potentially report Phase I study top-line results	4Q16	***

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

Source: Laidlaw & Company estimates and company presentation.

Major risks

Risks of clinical study failure. One of the key risks for healthcare product developer is failure of clinical studies that could potentially result in sunk costs in both capital and time lost. OPK currently has several mid- to late stage clinical trials underway. Failures of these studies, especially the Phase III pivotal trials, could have significant negative impact on share value. More specifically, clinical study success of MOD-4023 (hGH-CTP) is very important given it accounts for substantial valuation of OPK share value.

Regulatory success is important. Given the company currently has several products (in-house development and partnered) under regulatory agency review, whether to receive positive response and approval could have significant impact on share value. Although clinical study results for the several drugs currently under FDA review are rather robust; it remains possible that the agency may not grant approval or request additional clinical information or studies before considering approval. A scenario of this nature could have significant and immediate negative impact on OPK shareholder value.

Merger and acquisition risks. Although acquisition is a faster way to accomplish financial and strategic goals, it bears a number of risks especially post-merger. For example, due to the differences of corporate culture and mentality of operation, there are no assurance a successful integration can be accomplished immediately.

Successful reimbursement is critical for commercial success. Given the high price of medical products, it is important for most patients who will use them only if the diagnostic test or pharmaceutical products are reimbursed by third party payers, such as Medicare or private insurers. There is no certainty that the company's current or future products can be reimbursed by private or public parties. If so, we believe the revenue growth for such drug or diagnostic test could be limited.

Products may not be approved or reach anticipated sales. Although OPK's current pipeline products have exhibited the potential to generate positive clinical outcomes from current and future trials; it remains too early to project whether any of these products would 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 OPK shareholder value.

Ex-U.S. market risks. Given several OPK operations are out-side of the U.S. and some are in emerging markets, certain risks, such as macroeconomic volatility, geopolitical risk and currency fluctuations could all impact on the revenue generated from and operation in these territories.

Concentrated insider ownership. Given senior management and other insiders own near 50% of OPK shares, the insider ownership is very concentrated. As such, insiders could have significant control and therefore, with the potential risk of creating price volatility. Highly concentrated insider ownership could also have impact on delaying or preventing a change in control of the company.

Figure 1: Income Statement

OPKO Health – Income Statement												
(\$'MM)	2013	2014	2015	1Q16	2Q16E	3Q16E	4Q16E	2016E	2017E	2018E	2019E	2020E
Revenue												
Products (Pharmaceuticals)	68.2	77.0	80.1	19.9	23.7	25.5	34.2	103.4	212.9	328.1	563.3	728.4
Revenue from services (Diagnostics)	11.7	8.7	329.7	252.5	279.3	305.1	333.7	1,171.7	1,354.7	1,566.1	1,817.5	2,080.7
Revenue from transfer of intellectual property	16.7	5.5	81.9	18.6	16.0	17.0	17.9	69.5	70.2	70.9	71.6	72.3
Total revenue	96.5	91.1	491.7	291.0	319.0	347.6	385.8	1,344.5	1,637.8	1,965.1	2,452.4	2,881.4
Costs of revenues	48.9	48.0	260.0	147.5	164.8	180.0	198.4	690.7	834.0	984.0	1,168.3	1,351.5
Gross Incomes	47.7	43.1	231.7	143.5	154.2	167.6	187.4	653.8	803.8	981.1	1,284.2	1,530.0
Selling, general and administrative	55.3	57.9	196.6	128.0	132.2	134.8	137.5	532.5	534.2	609.4	694.4	791.0
Research and development	53.9	83.6	99.5	27.8	29.8	31.3	32.5	121.4	129.9	136.3	141.8	147.5
In process research and development	0.0	12.1	0.0	-	-	-	-	0.0	0.0	0.0	0.0	0.0
Contingent consideration	6.9	24.4	5.1	1.8	4.0	(2.0)	3.3	7.1	7.1	7.1	7.1	7.1
Amortization of intangible assets	11.1	10.9	28.0	13.4	13.0	13.0	13.0	52.4	52.4	52.4	52.4	52.4
Grant repayment	0.0	0.0	25.9	-	-	-	-	0.0	0.0	0.0	0.0	0.0
Total Operating Expenses	127.3	188.9	355.0	171.0	179.0	177.1	186.3	713.4	723.6	805.2	895.7	998.0
Total costs and expenses	176.2	236.9	615.0	318.6	343.7	357.1	384.7	1,404.1	1,557.5	1,789.2	2,064.0	2,349.4
Operating Incomes (losses)	(79.6)	(145.8)	(98.5)	(27.5)	(24.7)	(9.5)	1.0	(59.6)	80.2	175.9	388.4	532.0
Interest income	0.4	0.8	0.3	0.0	0.2	0.2	0.2	0.6	0.7	0.8	0.9	0.9
Interest expense	(13.8)	(12.3)	(8.4)	(1.8)	(2.7)	(2.7)	(2.7)	(9.9)	(9.9)	(9.9)	(9.9)	(9.9)
Fair value changes of derivative instruments, net	(45.9)	(10.6)	(39.1)	(1.4)	(1.0)	2.0	(4.0)	(4.4)	(6.0)	(6.0)	(6.0)	(6.0)
Other income (expense), net	34.8	(3.1)	7.7	0.5	8.0	6.0	(1.0)	13.5	29.0	29.0	29.0	29.0
Total Other Income, net	(24.6)	(25.2)	(39.5)	(2.6)	4.5	5.5	(7.5)	(0.1)	13.8	13.9	14.0	14.0
Income before tax	(104.2)	(171.0)	(138.0)	(30.2)	(20.2)	(4.0)	(6.5)	(59.7)	94.1	189.8	402.4	546.0
Tax	(1.7)	(0.0)	113.7	20.5	0.0	0.0	0.0	20.5	(34.8)	(70.2)	(148.9)	(202.0)
Loss before investment losses	(105.9)	(171.1)	(24.3)	(9.6)	(20.2)	(4.0)	(6.5)	(39.2)	59.3	119.6	253.5	344.0
Loss from investments in investees	(11.5)	(3.6)	(7.1)	(2.4)	(0.7)	(0.6)	(0.8)	(4.5)	(3.0)	(3.0)	(3.0)	(3.0)
Net income (loss)	(117.3)	(174.6)	(31.4)	(12.0)	(20.9)	(4.6)	(7.3)	(43.7)	56.3	116.6	250.5	341.0
Net loss attributable to noncontrolling interests	(2.9)	(3.0)	(1.4)	(0.8)	(0.8)	(0.8)	(0.8)	(1.4)	(3.0)	(3.0)	(3.0)	(3.0)
Net Income (Loss) Applicable to Common Shareholders	(114.8)	(171.7)	(30.0)	(12.0)	(20.2)	(3.8)	(6.5)	(42.3)	59.3	119.6	253.5	344.0
Net Earnings (Losses) Per Share—Basic and Diluted	(\$0.32)	(\$0.41)	(\$0.06)	(\$0.02)	(\$0.04)	(\$0.01)	(\$0.01)	(\$0.08)	\$0.12	\$0.21	\$0.50	\$0.61
Shares outstanding—basic	355.1	422.0	488.1	545.8	549.8	553.8	557.8	551.8	496.1	559.8	504.1	567.8
Shares outstanding—diluted	355.1	422.0	488.1	545.8	549.8	553.8	557.8	551.8	496.1	559.8	504.1	567.8
Margin Analysis (% of Sales/Revenue)												
Costs of goods	61%	56%	63%	54%	54%	54%	54%	54%	53%	52%	49%	48%
Gross margin	39%	44%	37%	46%	46%	46%	46%	46%	47%	48%	51%	52%
R&D	56%	92%	20%	10%	9%	9%	8%	9%	8%	7%	6%	5%
MG&A	57%	64%	40%	44%	41%	39%	36%	40%	33%	31%	28%	27%
Operating Income (loss)	-82%	-160%	-20%	-9%	-8%	-3%	0%	-4%	5%	9%	16%	18%
Net Income	-119%	-188%	-6%	-4%	-6%	-1%	-2%	-3%	4%	6%	10%	12%
Financial Indicator Growth Analysis (YoY%)												
Products (Pharmaceuticals)	50%	13%	4%	28%	4%	23%	63%	29%	106%	54%	72%	29%
Revenue from services (Diagnostics)	567%	-26%	3705%	12104%	14539%	194%	50%	255%	16%	16%	16%	14%
Revenue from transfer of intellectual property	N.A.	-67%	1395%	49%	-9%	-7%	-46%	-15%	1%	1%	1%	1%
Total Revenue	105%	-6%	440%	867%	652%	143%	40%	173%	22%	20%	25%	17%
R&D	176%	55%	19%	9%	1%	65%	28%	22%	7%	5%	4%	4%
SG&A	99%	5%	239%	634%	531%	144%	34%	171%	9%	9%	9%	8%
Operating income (loss)	114%	83%	-32%	-52%	-3%	16%	-113%	-39%	-235%	119%	121%	37%
Total Other Income, net	-15001%	3%	57%	-95%	-127%	-88%	-53%	-100%	-11522%	1%	1%	0%
Net Income	267%	49%	-82%	-90%	-53%	-103%	-505%	41%	-240%	102%	112%	36%
EPS	206%	26%	-85%	-92%	-61%	-103%	-498%	25%	-256%	79%	135%	20%
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Source: Bloomberg LP; Company reports; Laidlaw & Company estimates.

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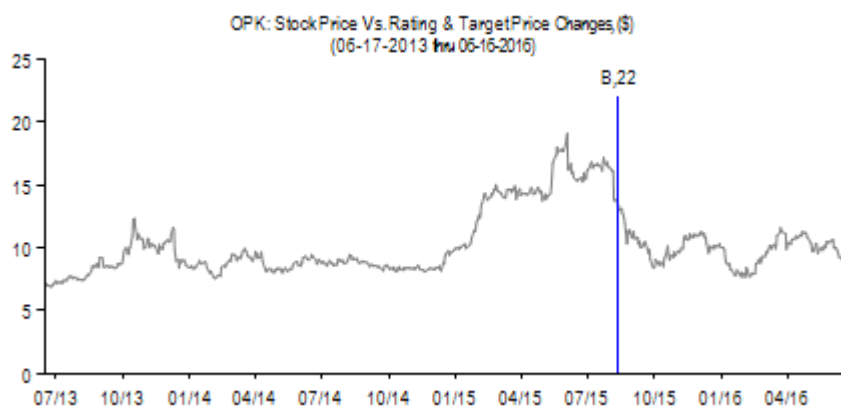
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3 Year Rating Change History

Date	Rating	Closing Price (\$)
08/12/2015	Buy (B)	13.45

3 Year Price Change History

Date	Target Price (\$)	Closing Price, (\$)
08/12/2015	22.00	13.45

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			Investment Banking	Brokerage
Strong Buy (SB)	Expected to significantly outperform the sector over 12 months.	0.00%	0.00%	0.00%
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