

Celyad

Clinical update

Pharma & biotech

Developing a sophisticated clinical strategy

Celyad has reached the potentially crucial three billion natural killer receptor (NKR) CAR T-cell dose (CYAD-01) in acute myeloid leukaemia (AML) with the first patient showing no signs of toxicity. If responses are seen in several patients, an expansion phase could start; a strong response was seen in November at the 300 million cell dose. Interim data are promised by Celyad in late 2018, probably at ASH. There are now several studies running or starting including using two courses of CYAD-01 in AML (after an initial response), evaluation of conditioning therapy with AML and combinations of CYAD-01 with chemotherapy in colorectal cancer. The indicative value remains at €1,040m, €84 per share.

Year end	Revenue (€m)	PBT* (€m)	EPS* (€)	DPS (€)	P/E (x)	Yield (%)
12/16	8.52	(20.00)	(2.09)	0.0	N/A	N/A
12/17	3.54	(26.80)	(2.79)	0.0	N/A	N/A
12/18e	0.00	(27.25)	(2.43)	0.0	N/A	N/A
12/19e	0.00	(28.50)	(2.38)	0.0	N/A	N/A

Note: *PBT and EPS are normalised, excluding amortisation of acquired intangibles, exceptional items and share-based payments.

A sophisticated clinical programme in AML

In 2017, an AML patient given three doses of 3x10⁸ NKR CAR T-cells (CYAD-01) over 28 days had a near complete response; the <u>case report</u> has been published. This encouraging response with strong blood cell recovery levels and reduction in cancer cells (blasts) is being developed in three ways. First, the planned 3x10⁹ CYAD-01 dose is now being tested in the <u>THINK</u> study and this may enable a trial expansion to assess efficacy. Second, multiple CYAD-01 28-day courses are being tested, initially at the 1x10⁹ dose when a patient shows an initial response; this indicates that responses are being seen. A second course may enhance overall responses as no preconditioning is used in THINK so no cell expansion is seen. Third, the <u>DEPLETHINK</u> study will test a non-myeloablative preconditioning regimen plus CYAD-01 in AML /MDS patients to test for CYAD-01 expansion.

Leading position in solid cancers and allogeneic cells

The generalised targeting of its NKR CAR approach gives Celyad a potentially dominant position in solid cancers, an area other CAR approaches find hard to access (see detailed report). Dose escalation of CYAD-01 in solid cancers in THINK is ongoing. Importantly, Celyad is evaluating CYAD-01 in combination with FOLFOX in the SHRINK trial; the first patient was enrolled in May in Belgium. The Belgium LINK study tests direct hepatic injection of CYAD-01 to treat metastatic CRC. An allogeneic NKR CAR trial could start; Celyad holds key patents.

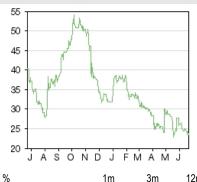
Valuation: €84 per share pending fresh data

The valuation is focused on AML at 25% probability and colorectal cancer at 20%. The unchanged indicative value is €1,040m, €84 per share. Management states that the May 2018 placing proceeds, €46.1m gross, could fund Celyad through H220. Value progression depends on THINK data especially in AML.

21 June 2018

Price	€23.40
Market cap	€279m
	\$1.18/€
Cash (€m) at 31 December 2017	34
Shares in issue (at 23 May 2018)	11.94m
Free float (Edison estimate)	67%
Code	CYAD
Primary exchange	Euronext Brussels
Secondary exchange	NASDAQ

Share price performance



%	1m	3m	12m
Abs	(0.4)	(22.5)	(45.2)
Rel (local)	3.3	(18.7)	(42.9)
52-week high/low		€54.0	€22.9

Business description

Celyad is developing an innovative natural killer receptor (NKR) CAR T-cell immune-oncology platform. Celyad has a leading position in CAR for AML and solid tumours and is exploring the use of NKR CAR with chemotherapy. It holds a key granted patent in allogeneic CAR technology.

Next events

Q218 update	Q318
THINK interim data	Q418

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Edison profile page

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	€000s 2016	2017	2018e	2019
Year end 31 December	IFRS	IFRS	IFRS	IFR
PROFIT & LOSS				
Revenue	8,523	3,540	0	
Cost of Sales	(53)	(515)	(500)	(500
Gross Profit	8,470	3.025	(500)	(500
EBITDA	(21,246)	(22,317)	(26,500)	(27,750
Operating Profit (before amort. and except).	(22,006)	(23,283)	(27,500)	(28,750
Intangible Amortisation	(756)	(748)	(750)	(750
Other income and charges	0	(26,273)	0	,
Share-based payments	(2,847)	(2,569)	(2,600)	(2,600
Operating Profit	(25,609)	(52,873)	(30,850)	(32,100
Net Interest	1,997	(3,521)	250	25
Profit Before Tax (norm)	(20,009)	(26,804)	(27,250)	(28,500
Profit Before Tax (FRS 3)	(23,612)	(56,394)	(30,600)	(31,850
Tax	6	1	0	(= 1,===
Profit After Tax (norm)	(20,003)	(26,803)	(27,250)	(28,500
Profit After Tax (FRS 3)	(23,606)	(56,393)	(30,600)	(31,850
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Average Number of Shares Outstanding (m)	9.3	9.6	11.2	12.
EPS - normalised (c)	(209)	(279)	(243)	(238
EPS - (IFRS) (c)	(253)	(586)	(273)	(267
Dividend per share (c)	0.0	0.0	0.0	0.
Gross Margin (%)	N/A	N/A	N/A	N/A
EBITDA Margin (%)	N/A	N/A	N/A	N/A
Operating Margin (before GW and except) (%)	N/A	N/A	N/A	N/A
BALANCE SHEET				
Fixed Assets	53,440	41.232	40,492	39.75
Intangible Assets	49,566	36,508	35,768	35,02
Tangible Assets	3,563	3,290	3,290	3,29
Investments	311	1,434	1,434	1,43
Current Assets	85,366	36,393	50,659	22,14
Stocks	00,300	0	0	22,14
Debtors	1,359	233	233	23
Cash (cash plus deposits)	82,587	33,905	48,171	19,66
Other	1,420	2,255	2,255	2,25
Current Liabilities	(11,275)	(7,944)	(7,944)	(7,944
Ceditors	(9,960)	(7,509)	(7,509)	(7,509
	(9,960)	(7,509)	(7,509)	
Deferred revenue				/425
Walloon loans and bank loan	(1,315)	(435)	(435)	(435
Long Term Liabilities	(36,646)	(22,146)	(22,146)	(22,146
Loans (non-current) Bank and Walloon	(7,866)	(1,870)	(1,870)	(1,870
Other long term liabilities	(28,780)	(20,276)	(20,276)	(20,276
Net Assets	90,885	47,535	61,061	31,81
CASH FLOW				
Operating Cash Flow	(26,695)	(46,027)	(26,514)	(27,471
Net Interest	1,997	(3,521)	264	(29
Tax	0	0	0	
Capex	(1,782)	(858)	(1,010)	(1,010
Acquisitions/disposals	(1,561)	Ó	Ó	, .
Financing	Ó	625	46,140	
Dividends	0	0	0	
Other	3,109	1,099	(4,614)	
Net Cash Flow	(24,932)	(48,682)	14,266	(28,510
Opening net debt/(cash)	(96,131)	(73,406)	(31,600)	(45,866
HP finance leases initiated	0	0	0	(10,000
Loan and finance movements	2,207	6,876	(0)	
Closing net debt/(cash)	(73,406)	(31,600)	(45,866)	(17,356

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