Pharmaxis

PXS.AX



A research platform of MST Financial

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Raising PXS-5505 profile in new indication; synergies with SOC

NEED TO KNOW

- Peer-reviewed study published in prominent journal, highlighting PXS-5505
- Possibility of combining PXS-5505 with SOC in MDS (group of blood cancers), an urgent need

Peer-reviewed data on PXS-5505 published in leading journal – good visibility ahead of clinical readouts: Pharmaxis's lead asset, pan-lysyl oxidase inhibitor PXS-5505, has been featured in leading professional journal *Nature Communications*, raising the drug's profile with both clinicians and potential partners ahead of clinical readouts over the next two quarters. The peer-reviewed data was obtained from a preclinical collaboration with University of Heidelberg investigating the role of lysyl oxidase enzymes in myelodysplastic syndrome (MDS), a group of blood cancers that share clinical and pathologic features with acute myeloid leukemia (AML). MDS occurs most commonly in older adults with an annual incidence thought to be as high as 75 cases/100,000.

Data looks promising for expanded indication, combined with SOC: The collaboration looked at the effect of combining the standard of care (SOC) for MDS, 5-azacytidine (5-AZA), with PXS-5505. The study concluded that the resulting significant increase in red blood cell production makes a strong case for trialling PXS-5505 combined with the current SOC in MDS patients, especially those who are anaemic. The team also indicated that the 5-AZA + PXS-5505 could merit investigation for other indications, including chronic myelomonocytic leukemia, myelofibrosis and low blast AML.

Investment Thesis

A rare combination of skills and assets to facilitate bench-to-bedside research. Pharmaxis has brought a combination of assets and skills to its drug discovery platform. As a result, the company has a powerful capability to harness in-house scientific research to develop clinical trial programs and create novel treatments, a 'bench-to-bedside' process known as 'translational research'.

Amine oxidase platform generating multiple candidates, with many more possibilities: Pharmaxis's drug discovery platform focuses on amine oxidases, an important class of regulatory enzymes widespread in the human body whose biological function depends on cofactors and location in human tissue and organ and associated with a range of inflammatory/fibrotic-related diseases.

Deep clinical pipeline: Pharmaxis has built a deep pipeline of product candidates. Its amine oxidase drugs are either 'best-in-class' or 'first-in-class' irreversible small molecule inhibitors of amine oxidase enzymes. The most advanced clinical asset, PXS-5505, is in Phase 2 clinical trials.

Valuation

Our valuation is A\$0.34/share, using a DCF-based sum-of-the-parts approach for the clinical programs (PXS-5505, PXS-6302) and the mannitol division.

Risks

Our valuation is most sensitive to clinical risk associated with the PXS-5505 and PXS-6302 programs.

Equities Research Australia

Pharmaceuticals, Biotechnology & Life Sciences

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Pharmaxis is a clinical-stage drug discovery company developing novel small molecule drugs for inflammatory and fibrotic diseases with major unmet medical need. It is a leader in mechanism-based inhibitors of amine oxidases. It is targeting cancers (e.g., myelofibrosis, pancreatic and liver cancer), diseases of organs including the liver (NASH, liver fibrosis), lungs (pulmonary fibrosis) and kidneys (chronic kidney disease), and fibrotic scarring from burns and other trauma. Pharmaxis previously commercialised two respiratory products (Bronchitol®, Aridol®) now sold globally.

Valuation A\$0.34 (unchanged)

Current price A\$0.04

Market cap A\$32m

Cash on hand A\$16.5m (31 Dec 22)

Upcoming Catalysts / Newsflow

Imminent	PXS-5505, liver cancer: Phase 1c to start									
1HCY23	PXS-4728, neurodegenerative disease Phase 2 trial: to start recruiting patients									
4QFY23	PXS-6302, scarring: results from placebo-controlled phase of study									
mid-2023	PXS-5505, MF: completion of Phase 2 study									

Share Price (A\$)



Source: FactSet, MST Access

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Financial Summary

Pharmaxis Year end 30 June, AUD unless otherwis	se noted												PXS-AL
MARKET DATA		12-MONTH SHARE PRICE PERFORMANCE (A\$)											
							0.16						
Price	\$	0.04					0.14						
2 week high / low	\$ \$	0.04-0.11					0.12 -						
/aluation		0.34 31.7					0.10						
Market capitalisation	\$m 	719.6					0.08	~~~	~~~	سس	-	 .	
Shares on issue (basic) Options / rights	m m	38.2					0.04					~~~	~~
•	m m	0.0					0.02 -						
Other equity Shares on issue (diluted)	m m	757.8					0.00 Apr/22 May/22 Jun/22	Jul/22 Au	ug/22 Sep/22	Oct/22 Nov/2	2 Dec/22	Jan/23 Feb/23	
NVESTMENT FUNDAMENTALS		FY19A	FY20A	FY21A	FY22A	FY23E	PROFIT AND LOSS		FY19A	FY20A	FY21A	FY22A	FY23E
Reported NPAT	\$m	(20.1)	(13.9)	(3.0)	(1.9)	(11.7)	Revenue	\$m	5.7	7.0	6.7	7.4	9.4
Jnderlying NPAT	\$m	(20.1)	(13.9)	(3.0)	(1.9)	(11.7)	Other income	\$m	6.5	5.6	16.9	8.3	4.9
							Total Revenue	\$m	12.2	12.7	23.6	15.8	14.3
Reported EPS (diluted)	¢	(5.3)	(3.5)	(0.7)	(0.3)	(2.1)	Operating expenses	\$m	(30.3)	(25.9)	(23.1)	(28.1)	(23.2)
Jnderlying EPS (diluted)	¢	(5.3)	(3.5)	(0.7)	(0.3)	(2.1)	EBITDA	\$m	(18.1)	(13.2)	0.5	(12.3)	(8.9)
Growth	%		-32.8%	-79.4%	-52.8%	517.3%	Depreciation & Amortisation	\$m	(2.6)	(3.2)	(3.2)	(3.2)	(8.0)
Underlying PER	x	nm	nm	nm	nm	nm	EBIT	\$m	(20.7)	(16.5)	(2.7)	(15.5)	(9.7)
							Net interest	\$m	0.9	0.4	0.1	0.2	0.0
Operating cash flow per share	¢	(5.2)	(3.4)	0.8	(2.9)	(1.3)	Pretax Profit	\$m	(20.1)	(13.9)	(3.0)	(1.9)	(11.7)
Free cash flow per share	¢	(5.4)	(3.5)	0.6	(2.9)	(3.0)	Tax expense	\$m	0.0	0.0	0.0	0.0	0.0
Price to free cash flow per share	x	nm	nm	7.4	nm	nm	Reported NPAT	\$m	(20.1)	(13.9)	(3.0)	(1.9)	(11.7)
FCF Yield	%	nm	nm	13.5%	nm	nm							
Dividend	¢	0.0	0.0	0.0	0.0	0.0	Weighted average diluted shares	m	381.4	394.7	407.3	562.9	549.1
Payout	%	0.0%	0.0%	0.0%	0.0%	0.0%	GROWTH PROFILE		FY19A	FY20A	FY21A	FY22A	FY23E
Yield	%	0.0%	0.0%	0.0%	0.0%	0.0%	Revenue	%	(75.8)	4.1	86.5	(33.3)	(9.1)
Franking	%	0.0%	0.0%	0.0%	0.0%	0.0%	EBITDA	%	(290.7)	(26.9)	(103.8)	(2,557.1)	(27.6)
	70	0.070	0.070	0.070	0.070	0.070	EBIT	%	(424.7)	(20.6)	(83.9)	486.5	(37.7)
Enterprise value	\$m	7.7	25.1	19.3	27.0	39.1	Reported NPAT	%	(412.0)	(30.5)	(78.7)	(34.8)	502.1
EV/EBITDA	x	(0.4)	(1.9)	38.5	(2.2)	(3.7)	DPS	%	nm	nm	nm	nm	nm
EV/EBIT	x	(0.4)	(1.5)	(7.3)	(1.7)	(3.4)	DI 3	70	*****	11111	11111	11111	11111
Price to book (NAV)	x	1.2	12.2	7.0	2.2	8.6	BALANCE SHEET		FY19A	FY20A	FY21A	FY22A	FY23E
Price to NTA	x	1.2	35.5	11.5	2.5	11.2	Cash	\$m	31.1	14.8	18.7	8.9	6.3
I NOE TO NITA	^	1.2	50.5	11.5	2.0	11.2	Receivables	\$m	7.3	7.1	3.0	8.0	4.2
KEY RATIOS		FY19A	FY20A	FY21A	FY22A	FY23E	Other	\$m	2.1	2.6	3.6	2.3	5.1
EBITDA margin	%	nm	nm	7.5	nm	nm	Current assets	\$m	40.6	24.5	25.3	19.2	15.6
EBIT margin	%	nm	nm	nm	nm	nm	PPE	\$m	10.3	8.9	6.2	3.2	2.6
NPAT margin	%					nm			0.8	0.9	1.1	1.0	1.1
ROE	%	nm	nm	nm	nm		Intangible assets	\$m \$m	1.1	1.1	0.9	1.7	1.7
ROA	%	nm nm	nm nm	nm nm	nm nm	nm nm	Other Non current assets	\$M	12.1	10.9	8.3	6.0	5.5
NOA	/0	11111	11111	11111	11111	11111	Total assets	\$m	52.7	35.4	33.6	25.2	21.1
Net tangible assets per share	\$	0.0	0.0	0.0	0.0	0.0	Total assets	φIII	32.1	33.4	33.0	20.2	21.1
· ·	\$	0.0	0.0	0.01	0.0	0.0	Trade and other payables	\$m	4.8	3.5	3.8	2.7	5.3
Book value per share Net debt/(cash)	\$m	(24.0)	(6.6)	(12.4)	(4.6)	(2.1)		\$m	1.2	1.8	2.0	2.0	2.0
							Borrowing	\$m	2.1	1.5	2.0	1.4	
Interest cover/ (EBIT/net interest)	x	nm	nm	nm	nm	nm	Other						0.7
Gearing (net debt/EBITDA)	x	nm	nm	nm	nm	nm	Current liabilities	\$m ©m	8.1	6.8	7.9	6.1	8.0
Leverage (net debt/(net debt + equity))	x	nm	nm	nm	nm	nm	Borrowing and leases	\$m	6.0	6.3	4.3	2.3	2.3
DUDONT ANALYSIS		EV40A	EV204	FV94A	FV204	EVA2E-	Other liability	\$m	15.7	14.0	10.7	0.0	0.0
DUPONT ANALYSIS	0,	FY19A	FY20A	FY21A	FY22A	FY23E	Non current liabilities	\$m	29.7	27.2	22.9	8.3	8.3
Net Profit Margin	%	nm	nm	nm	nm	nm	Total liabilities	\$m	37.9	34.0	30.7	14.4	16.3
Asset Turnover	X	0.1	0.2	0.2	0.3	0.4	Net assets	\$m	14.8	1.4	2.8	10.8	4.8
Return on Assets	%	nm	nm	nm	nm	nm	0	•	00-0	00= 0	07/		0011
Financial Leverage	X	484.1	5,698.1	2,222.1	397.1	891.0	Share capital	\$m	367.3	367.3	371.4	380.4	391.1
Return on Equity	%	nm	nm	nm	nm	nm	Retained earnings	\$m	(374.2)	(388.2)	(391.2)	(393.1)	(404.8)
							Other	\$m	21.8	22.3	22.6	23.5	23.5
							Total equity	\$m	14.8	1.4	2.8	10.8	4.8
KEY PERFORMANCE INDICATORS	•	FY19A	FY20A	FY21A	FY22A	FY23E	CASH FLOW	•	FY19A	FY20A	FY21A	FY22A	FY23E
Bronchitol	\$m	2.6	5.3	5.2	5.8	7.8	Net loss for period	\$m	(20.1)	(13.9)	(3.0)	(1.9)	(11.7)
Aridol	\$m	3.1	1.8	1.4	1.6	1.6	Depreciation & Amortisation	\$m	2.9	3.2	3.2	3.2	0.8
Clinical development pipeline	Indication			Status			Changes in working capital	\$m	(5.1)	(1.6)	4.0	(5.9)	3.6
PXS-5505	Myelofibrosis			Phase 2a			Other	\$m	2.5	(1.0)	(1.1)	(11.5)	0.0
PXS-6302	Anti-scarring		Phase 1c c	-			Operating cash flow	\$m	(19.8)	(13.3)	3.1	(16.1)	(7.3)
PXS-5505	Liver Cancer			1c ready			Payments for PPE	\$m	(0.6)	(0.3)	(0.3)	(0.1)	(0.1)
HALF YEARLY DATA		2H20	1H21	2H21	1H22	2H22	Other	\$m	(0.4)	(0.3)	(0.3)	(0.2)	(0.2)
Total Revenue	\$m	8.6	13.7	9.9	8.5	1.6	Investing cash flow	\$m	(1.0)	(0.6)	(0.6)	(0.3)	(0.3)
Operating expenses	\$m	(13.5)	(11.8)	(11.3)	(14.9)	(13.2)	Equity	\$m	22.7	0.0	4.1	9.1	10.0
	\$m	(4.8)	1.9	(1.4)	(6.4)	(11.6)	Lease liability payments	\$m	(1.6)	(2.2)	(2.3)	(2.4)	0.0
				(1.4)	(7.9)	(13.1)	Other	\$m	(0.3)	(0.3)	(0.2)	(0.1)	0.0
EBIT	\$m	(4.8)	0.3	(1.4)									
EBIT PBT	\$m	(4.8)	0.3	(3.0)	(8.1)	0.6	Financing cash flow	\$m	20.8	(2.5)	1.5	6.6	10.0
EBITDA EBIT PBT Reported NPAT								\$m \$m	20.8 31.1 (20.8)	(2.5) 14.8 (13.9)	1.5 18.7	6.6 8.9 (16.4)	10.0 6.3

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