October 18, 2022

Highlighted companies

List of ASX tickers mentioned

1AD, 4DX, ACW, ADO, AGN, AHX, ALC, ANP, ANR, ARX, AT1, ATX, AUA, AVH, AVR, BGT, BIT, BNO, BOD, BOT, CAN, CDX, CMP, CU6, CYC, CYP, DXB, EBR, EMV, EOF, EYE, GLH, GSS, HMD, IBX, IMC, IME, IMM, IMU, IPD, IVX, IXC, KZA, LBT, LCT, LDX, M7T, MAP, MDC, MEM, MX1, NEU, NOX, NSB, NTI, NXS, NYR, OCC, OIL, OPL, OPT, OSL, OSX, PAA, PAB, PGC, PIQ, PTX, PXS, PYC, RAC, RAD, RCE, RGS, RHY, RNO, RSH, SHG, SOM, TLX, TRP, TRU, UCM, VHT, VTI, **ZLD**

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Analyst(s) own shares in the following stock(s) mentioned in this report:

Antisense Therapeutics, Audeara, Clinuvel Pharmaceuticals, EBR Systems, ImexHS, ImpediMed, Mach7 Technologies, Neuren Pharmaceuticals, Opyl, Pharmaxis, Proteomics International Laboratories, Rhythm Biosciences, Telix Pharmaceuticals, Volpara

The information contained within this report has been compiled based on best endeavours from a scan through recent Company updates as well as company input. While the list is not exhaustive with likely subsequent milestones and timing estimates dependent on the progress of preceding events, we see this as a simple snapshot on a broad range of healthcare companies and some of the major news flow events and timing as anticipated by the market.

Healthcare

Micro to mid-cap catalyst table (3Q'CY22)

- In this report we list ~90 micro to mid-cap healthcare/life science companies and highlight key catalysts expected to read out over the next 18 months. We view the information as a guide around timing of major events while adding a market impact overlay to highlight potentially significant event reactions (good or bad).
- Since our last report in mid-June, the sector has slightly outperformed the broader market over the quarter but pressure remains on growth / pre-revenue / pre-profit / concept stocks in the absence of positive news flow. As such, we continue to view clear and meaningful catalysts remain key for the sector for some time.
- Sector observations: 1) well-funded stocks are weathering far better; 2) recruitment is sluggish (expect delays to timelines); and 3) there a bit more interest coming back into medicinal cannabis companies (S3 registration).
- Regardless, it's a difficult market right now with good news often short-lived and bad news being punished more than usual. It pays to remain nimble.

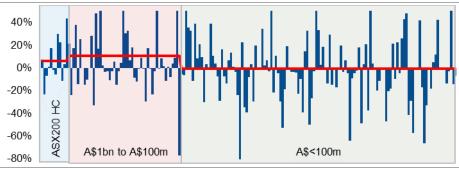
Major catalysts our team is watching (ordered by assumed timing)

- Impedimed (IPD): Potential inclusion in NCCN guidelines.
- Clinuvel (CUV): Potential competitor Ph3 (Mitsubishi Tanabe: MT-7117) results released Oct/Nov.
- Telix (TLX): ZIRCON Ph3 study readout / BLA submission process update.
- Immutep (IMM): TACTI-003: Ph2b HNSCC operational and data / TACTI-002: Ph2 interim data read out.
- Proteomics (PIQ): Conversion of binding letter of intent to exclusive license with Sonic Healthcare USA / First sales ProMarkerD in EU.
- Rhythm Biosciences (RHY): TGA approval / commence distribution partnerships (AU/EU/US).
- EBR Systems (EBR): Top-line results SOLVE trial.
- Neuren Pharma (NEU): FDA approval / Milestone payout.

Recent major catalysts and share price reactions

- Imugene (IMU) Positive: HER-Vaxx overall survival results (27-Jun-22). Statistical significance achieved in overall survival hazard ratio. Reduces risk of death by 41.5% in combination versus chemotherapy alone (+45.5% on day).
- Telix (TLX) Negative: Withdraws EU marketing application (28-Sep-22) for Illucix after additional CMC data request makes it unlikely to be delivered in time for review (-15.4% on day).
- Hexima (HXL) Negative: Ph2 topline results (24-Jun-22). Results of pezadeftide in treatment onychomycosis shown to be inconclusive and not correlated with results from prior studies. Not supportive of move directly to Ph3 (-84.6% on day).
- Kazia (KZA) Negative: Glioblastoma (GBM) study (1-Aug-22), Study sponsor for GBM study axes second stage following treatment arm not meeting pre-defined endpoints. (-53% on day).

Figure 1: ASX listed healthcare returns (185 stocks) since 16 June 2022 – favours middle markets, tail volatile



Source: Morgans Financial, IRESS



Points of interest

Biggest moves over the last quarter across the space

Below is a list of the largest movers across the space since 18 March 2022. The list comprises all ASX listed stocks with Global Industry Classification Standard (GICS) sector code 35 (healthcare). As at the time of print, this number was 185.

Up: 44% of the sector constituents

28 companies with positive movements >25%

Down: 48% of the sector constituents

• 21 companies with negative movements <-25%

Even: 8% of the sector constituents

Figure 2: Top 10 +ve and -ve share price movements (18 March → 16 June)

Largest gains				
1: CAU +167.9%	3: NEU +83.0%	5: HIQ +62.8%	7: NTI +59.3%	9: 4DX +46.8%
2: IMR +140.0%	4: OSX +69.2%	6: ACW +62.3%	8: CU6 +50.6%	10: LCT +44.4%
Largest losses				
1: HXL -95.3%	3: LDX -58.6%	5: TD1 -57.1%	7: NSB -48.4%	9: WFL -47.3%
2: KZA -76.3%	4: DOC -58.0%	6: MEB -50.0%	8: AMT -48.3%	10: ONE -35.9%

Source: IRESS

New listings / delistings

- No new listings this quarter.
- ResApp (RAP) delisted following takeover by Pfizer.



Biggest single-day moves - based on any news?

We view it common sense that large daily price swings indicate some news or a market-moving event to cause a reaction (or on many cases here the perception of an event). Below, we have listed the top ten largest daily share price swings in the space and if there was any company release that may have triggered the reaction.

Figure 3: Top 10 +ve and -ve share price movements

Top 10 si	ngle day po	sitive SP i	movements
Ticker	Date	% gain	Announcement / comments
IMU	27-Jun-22	45.5%	Positive HER-Vaxx Ph2 results
ZLD	14-Jul-22	44.2%	Partner receives German regulator approval
OSX	4-Aug-22	42.3%	US distribution agreement
EBR	1-Jul-22	41.3%	Complete enrolment / secures funding facility
IPD	28-Jul-22	37.0%	Qrly cashflow report
4DX	31-Aug-22	36.0%	+ve results for constrictive bronchiolitis
OCC	28-Jun-22	30.0%	Signs global exclusive license for resorbable collagen membrane Striate+
RCE	22-Jun-22	27.3%	Positive safety data from 6th cohort Ph1
OIL	28-Jul-22	27.3%	Signs strategic partnership in China
MEM	18-Aug-22	26.7%	

Top 10 single day negative SP movements

ricker	Date	% gain	Announcement / comments
LDX	11-Jul-22	-65.5%	FebriDX fails to demonstrate substantial equivalence. FDA knocks back 510(k)
NSB	7-Sep-22	-61.9%	HREC rejects plans for Ph1 trial. Risk / benefits support lacking
KZA	1-Aug-22	-52.9%	GBM trial fails to meet pre-defined criteria to progress
MEM	17-Aug-22	-33.3%	
MDC	5-Aug-22	-25.2%	
AUA	22-Aug-22	-20.0%	
TRU	27-Jun-22	-20.0%	
ZLD	20-Jul-22	-18.5%	
SHG	19-Aug-22	-18.2%	
OIL	29-Jul-22	-17.9%	

Source: Morgans estimates, company data, IRESS

Volume momentum - what's hot, what's not?

We have run a volume screen across the stocks in the sector using 3-month volumes and use price changes as a direction flag. We view this as a simple and broad quantitative guide to highlight stocks the market may be heading towards or away from. We view these signals as a flag to investigate and see what has changed (if anything).

While we note momentum and shareholder engagement can change quickly as circumstances unfold both on a macro level and a company-specific level, we view this (3-month) broader view as better at potentially capturing enduring changes in sentiment versus daily or weekly "flash-in-the-pan" reactions to certain events.

Liquidity remains an issue for a range of stocks, particularly in micro-cap companies. As such, we have removed from the results companies with market capitalisations lower than A\$20m where trading volumes are typically more volatile.

We have divided the results into three main buckets, ranked by weighting of 3-month volumes vs 12-month average and 3-month share price movement:

- 1) Positive momentum (higher volumes + higher share price);
- 2) Negative momentum (higher volumes + lower share price); and
- 3) False positives (higher prices on lower volumes).

Below we provide the top 10 results from each bucket:



Figure 4: Positive momentum - slim pickings this quarter (again)

Rank	Ticker	Mkt Cap (\$m)	3m avg vol (m)	12m avg vol (m)	Vol Δ (3m / 12m)	3m price A
1	CAU	474	0.2	0.2	30.7%	226.4%
2	IMR	40	0.4	0.2	83.7%	76.7%
3	NTI	75	1.6	1.1	47.2%	94.4%
4	SIG	699	4.3	2.6	65.4%	29.1%
5	RAP		6.3	3.4	85.2%	20.6%
6	OSX	30	0.1	0.1	13.9%	96.2%
7	AGH	27	0.9	0.5	61.6%	18.6%
8	4DX	171	0.5	0.4	20.4%	50.6%
9	NEU	903	0.3	0.3	9.0%	98.9%
10	TLX	1,750	1.4	1.1	18.0%	43.3%

Source: Morgans estimates, IRESS

Figure 5: Negative momentum - plenty to go around (and on higher volumes vs prior qtr)

Rank	Ticker	Mkt Cap (\$m)	3m avg vol (m)	12m avg vol (m)	Vol Δ (3m / 12m)	3m price A
1	KZA	26	0.2	0.1	66.6%	-76.4%
2	ACL	682	1.2	0.8	59.1%	-15.0%
3	GSS	115	0.1	0.1	33.0%	-23.4%
4	DOC	26	0.5	0.5	12.7%	-52.7%
5	AFP	346	0.0	0.0	38.5%	-10.9%
6	TRJ	290	0.1	0.1	19.2%	-15.1%
7	RHC	12,827	0.6	0.6	6.6%	-22.7%
8	MVP	145	0.2	0.1	47.1%	-3.0%
9	EBO	6,111	0.0	0.0	24.6%	-4.4%
10	CTE	32	0.0	0.0	33.3%	-2.2%

Source: Morgans estimates, IRESS

Figure 6: False positives (higher on lower volume)

Rank	Ticker	Mkt Cap (\$m)	3m avg vol (m)	12m avg vol (m)	Vol Δ (3m / 12m)	3m price ∆
1	ACW	207	1.8	2.5	-27.4%	117.0%
2	RAC	410	0.1	0.2	-39.1%	67.5%
3	IVX	74	2.0	8.2	-75.8%	27.8%
4	EBR	150	0.1	0.2	-53.7%	38.8%
5	IIQ	51	0.1	0.1	-51.6%	34.1%
6	CYC	137	0.0	0.0	-52.7%	33.3%
7	CU6	153	0.1	0.2	-41.8%	38.8%
8	MSB	730	1.3	1.7	-20.7%	47.8%
9	AHC	35	0.0	0.1	-30.3%	32.3%
10	AYA	53	0.0	0.1	-45.3%	19.6%

Source: Morgans estimates, IRESS

Pharmaceutical development success rates / timing / completion

Success rates

Below we outline the results from a report (Biotechnology Innovation Organization, 2021) that has aggregated ~12k clinical trials between 2011 and 2020 to estimate the probability of success (POS) rates across various disease areas.

Note: this information is limited to pharmaceutical (drug development) assets.

All clinical assets and timeframes vary significantly but we find this a useful guide when scanning across assets which, prior to final protocol and design, we can apply to give us a reasonable expectation on timing and risk for major clinical catalysts.

We note that these are broad averages by indication and do not account for the variation between the different drug classes / mechanisms of action a drug asset may have on success rates, or the status of a drug or indication (new chemical entities, biosimilars, generic, rare disease / orphan indication, etc).

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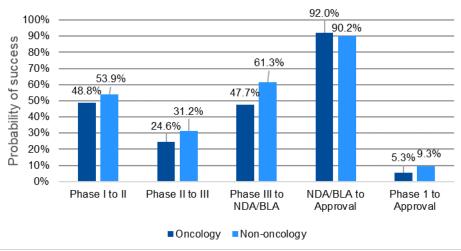
Figure 7: Phase transition by disease area (2011 - 2020)

Phase transition success rates by disease area

Phase Success		ise I		se II III		se III A/BLA		/BLA proval
Filase success	n	Phase	n	Phase	n	Phase	n	Phase
		POS		POS		POS		POS
Hematology	92	69.6%	106	48.1%	82	76.8%	72	93.1%
Metabolic	136	61.8%	149	45.0%	66	63.6%	48	87.5%
Infectious disease	403	57.8%	414	38.4%	197	64.0%	156	92.9%
Others	154	63.6%	228	38.6%	90	60.0%	69	88.4%
Ophthalmology	88	71.6%	200	35.5%	82	51.2%	45	91.1%
Autoimmune	413	55.2%	471	31.4%	219	65.3%	202	94.1%
Allergy	55	56.4%	92	28.3%	34	64.7%	20	100.0%
Gastroenterology	45	46.7%	73	34.2%	35	57.1%	33	90.9%
All indications	4414	52.0%	4933	28.9%	1928	57.8%	1453	90.6%
Respiratory	179	55.9%	215	21.9%	62	64.5%	45	95.6%
Psychiatry	150	52.7%	164	26.8%	71	56.3%	57	91.2%
Endocrine	319	43.3%	293	26.6%	151	66.2%	124	86.3%
Neurology	516	47.7%	504	26.8%	226	53.1%	165	86.7%
Oncology	1628	48.8%	1732	24.6%	495	47.7%	324	92.0%
Cardiovascular	214 50.0%		252	21.0%	105	55.2%	80	82.5%
Urology	22	40.9%	40	15.0%	13	69.2%	13	84.6%

Source: Biomedtracker, Pharmapremia, 2020

Figure 8: Oncology vs non-oncology phase transition success rates and likelihood of approval (LOA)



Source: Biomedtracker, Pharmapremia, 2020

Phase timing

Looking to typical regulatory progression timelines, a study performed in 2019 (Wong, Siah, Lo, 2019) has assessed the time to advance between trial phases. The study was based on >40k clinical trials between 2000 and 2015.

The results highlighted the <u>median</u> time in each of the three main phases in the clinical setting of:

Phase 1: 1.61 years,

Phase 2: 2.94 years, and

Phase 3: 3.84 years.



The median duration across therapeutic groups to complete clinical activities (commence Phase 1 to Phase 3 completion – excluding preparation time) is wide and ranges between 5.94 years to 7.15 years, excluding oncology which is a significant outlier at 13.11 years.

The Ph2 Ph3 Ph4

Figure 9: Median duration of trials by indication (2000-2015)

Source: Wong, Siah, Loh 2019

Completion rates

Another interesting factor in clinical progression risks is around completion rates, with some trials failing to run through to completion. The reasons for this varies, from poor recruitment rates, to funding, to selection bias.

Interesting to note again are the significantly lower completion rates (CR) in oncology assets (73.9%) versus other indications ranging from 84.4% to 93.1%.

Another point of interest is the broadly higher completion rates between Phase 3 (84.9%) and Phase 2 assets (81.1%). Given the wide gap between costs to run these trials across the two phases, it is thought the higher completion rates in Ph3 trials are due to asset owners having had the benefit of Ph2 efficacy results, with selection bias favouring assets with better efficacy prospects and closer to marketing approval likely to be given sufficient resources to complete the trials.

Figure 10: Completion rates for industry-sponsored trials (2000-2015)

	Pl	nase 1		Ph	nase 2		Ph	ase 3		Ph		
	Completed	Failed	CR_1	Completed	Failed	CR_2	Completed	Failed	CR_3	Completed	Failed	CR_4
Oncology	3910	885	81.5%	6278	2501	71.5%	1439	706	67.1%	403	149	73.0%
Metabolic/ Endocrinology	2602	145	94.7%	1939	292	86.9%	2267	370	86.0%	1564	227	87.3%
Cardiovascular	1884	110	94.5%	1349	249	84.4%	1679	290	85.3%	1373	199	87.3%
CNS	3233	185	94.6%	2862	432	86.9%	3091	453	87.2%	2100	245	89.6%
Autoimmune/ Inflammation	2449	132	94.9%	2986	432	87.4%	2681	343	88.7%	1984	234	89.4%
Genitourinary	507	16	96.9%	419	56	88.2%	450	53	89.5%	324	43	88.3%
Infectious Disease	2424	140	94.5%	1715	268	86.5%	1698	243	87.5%	1111	220	83.5%
Ophthalmology	161	18	89.9%	424	72	85.5%	307	51	85.8%	336	45	88.2%
Vaccines (Infectious Disease)	414	37	91.8%	752	69	91.6%	850	63	93.1%	337	34	90.8%
Total	17584	1668	91.3%	18724	4371	81.1%	14462	2572	84.9%	9532	1396	87.2%

Source: Wong, Siah, Loh 2019



Partnership deal trends - Biobucks and upfronts

We have extracted all global biotechnology licensing transactions since 2012, seeking to find any emerging trends.

What we found interesting is while the volume of deals remains fairly constant (in the 250-300 pa range), there appears to be a recent trend toward back-end loaded transactions with larger total packages and smaller up-front cash components (Figure 11). This trend makes greater sense if we look deeper into the maturity of the assets being licensed, with partnerships favouring earlier stage assets in recent years (pre-clinical to Ph2) over later stage assets (Ph3 to Marketed) (Figure 12). Outside of a risk-off mentality in recent years, this can occur for any number of reasons from plugging gaps in long-lead pipelines, increasing demand for control of clinical direction, and even down to the assets that are now moving through into the latter stages having already been raided - with less desirable assets and/or smaller market indications remaining.

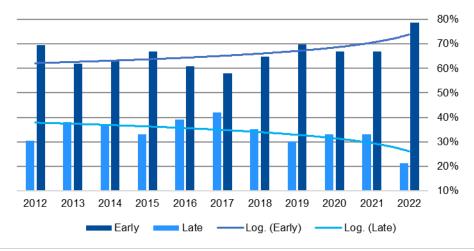
Figure 11: Count, partnership deal sizes, upfront component (last 10 years)

Year	# deals	Avg deal size (\$m)	Avg upfront (\$m)	Upfront (%)
2022	250	748	55	7%
2021	337	626	95	15%
2020	298	608	114	19%
2019	224	609	180	30%
2018	302	459	64	14%
2017	243	406	87	21%
2016	254	381	61	16%
2015	284	430	66	15%
2014	205	469	233	50%
2013	157	283	70	25%
2012	124	174	35	20%
Average	268	487	98	20%

2022 year extrapolated out to full year

Source: Bloomberg, Morgans estimates

Figure 12: Count, partnership deal sizes, upfront component (last 10 years)



Source: Bloomberg, Morgans estimates

Biobucks create headlines - but don't bank on it

Milestone packages ("biobucks") and the mechanisms that trigger certain payment events aren't often disclosed other than top-line total values and any upfront components given the commercial-in-confidence nature of these deals. However, typical deals are made up of several clinical progression events



(sometimes referred to as R&D reimbursement triggers and often not "profitable" considering the cost of running the trial), and often highly geared toward large incentives that are based on high sales targets post approval and commercialisation.

However, on average only a small proportion of the total package ever materialises (SRS Acquiom, 2019) given clinical progression risks and often large skews to high post-approval sales targets. A study by SRS Acquiom which followed 100 deals found only around 33% of total milestone packages had been paid, 17% remained pending (at risk), and 50% of value unlikely to ever be paid out due to failure to reach certain clinical/commercial milestones.

Of the 33% in value paid, we assume a significant portion of those splits would be the upfront component (~15% of total deal value), leaving <20% of total deal value paid through genuine progression or achievement of clinical/commercial milestones.

Our analysis through all biotech partnership deals with milestone components since 2012 (>2,500 deals) broadly mirror these findings based on a deal value-weighted vs clinical phase LOA. With a much heavier skew toward pre-clinical (~50% of total deal value) and Phase 1 assets (11% of deal value) versus all other phases (combined 39% of deal value) and average approval rates through to successful commercialisation, we believe the average risked rate of achieving milestone-based payment triggers sits around the 22% level. This figure assumes all sales-based milestones are also triggered (which is very unlikely).

Given the weighting of high-hurdle triggers in several transactions we have seen in the last few years, we view a more realistic range likely sits somewhere within the 10% mark and up to the 22% mark, plus any upfront component.

So what's the takeaway from this? While it's nice to see big numbers in a headline when partnership deals are struck, always keep in mind that companies will typically only receive a fraction of this. Where we see the most value is in more tangible items such as up-front cash consideration and a strong royalty rate, while considering the clinical risk and timeframes prior to an asset becoming a commercial prospect, and the present value of those potential future cashflows.



Catalyst tables

Figure 13: Bone

										Minor		Mid	Significant		
				Sh	are price	mo	veme	nt (%)		Estimated timing on catalysts					
Ticker	Company Name	Mkt Cap (A\$m)	1M		3M	61	И	12N	1		2H22	1H2023	2H2023		
occ	Orthocell Ltd	77	-	2.5	- 1.3	-	7.1	-	26.4	Striate - global product launch	Remplir - Aus reimbursement		OrthoATI vs Surgery 12m follow-up		
OSX	Osteopore Ltd.	30	-	8.9	41.7	7	27.5	-	10.5	EU approval for custom made device	China: initiate market entry				

Source: Morgans estimates, company data, FACTSET, Prices as at 17 Oct 2022

Figure 14: Cardiovascular

									Minor	Significant			
				Sha	are pr	ice ı	movemen	t (%)		Estimated timing or	n catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M		3M		6M	12M	2H22	1H2023		2H2023	
AVR	Anteris Technologies Ltd.	314	- 1	11.5	- 1	4.0	25.9	152.3		Commence next in-human trials		Follow up FIH patient data	
EBR	EBR Systems	175	1	3.3		3.7	- 2.6			Top line results - SOLVE trial	Submit PMA application for US approval	FDA regulatory approval	

Source: Morgans estimates, company data, FACTSET, Prices as at 17 Oct 2022

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Figure 15: Central Nervous System (CNS)

							Minor			Mid		Significant	
			Sh	are price	movemen	ıt (%)	Estimated timing on catalysts						
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12M		2H22		1H2023		2H2023	
ACW	Actinogen Medical Limited	207	40.2	105.4	29.2	9.5		ference pres		Commence Ph2a De Ph2b Early Alzheime trials			
AGN	Argenica Therapeutics	42	- 22.7	10.8	- 24.0	19.5	Initiate Ph	ase 1 health study	y volunteer	Preliminary Ph1 Results	Final Phase 1 Report and ethics submissio n for Ph2		
BNO	Bionomics Ltd	87	23.1	9.4	- 8.6	- 55.9		Ph2 top-line results - Acute Social Anxiety Disorder		Ph2b top-line results - PTSD			
IXC	Invex Therapeutics Ltd.	44	- 8.5	13.5	- 21.3	- 16.9	First site activation (AUS/UK)	EU/NZ approvals	Ph3 first patient dose				
LCT	Living Cell Technologies Ltd.	14	- 15.4	37.5	37.5	4.7		LL 3rd trial uring comm				NTCELL third trial approva	
NEU	Neuren Pharmaceuticals Limited	903	- 2.5	79.0	76.8	259.0				FDA Earn approval of US\$40m NDA for milestone Rett payment	Results of 3 x Ph2 trials (NZ- 2591)	Earn US\$10m milestone payment	Results of Prader- Willi Ph2 trial
NSB	Neuroscientific Biopharmaceutical s Ltd.	14	- 5.5	- 58.0	- 66.3	- 75.5		HREC / recruitment / commence Ph1 oculary study					
NTI	Neurotech International Ltd.	75	10.5	43.8	90.9	118.8	20 week Ph1/2 data	Commenc e Ph2/3 ASD trial	Ph1/2 initiation (paediatric disorder)	Commence Phase I/II Cerebral Pal		letudy	FDA IND mission



Figure 16: Devices

							Minor	Mid	Significant
			Sr	nare price	movemer	nt (%)		Estimated timing on catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12M	2H22	1H2023	2H2023
AUA	Audeara	10	- 3.3	- 30.4	- 20.9	- 37.9	First large EU clinic clinical p'ship / sale / partner sales expansion	Sales progression	Sales progression
CDX	CardieX Limited	34	- 15.6	- 28.9	- 31.6	- 60.3	FDA approval: Pulse device		FDA approval: CONNEQT Band
СМР	Compumedics Limited	40	- 11.8	15.4	- 18.2	- 40.8	Sales progression	Sales progression	Sales progression
CYC	Cyclopharm Limited	137	0.7	- 6.6	- 1.7	- 17.6		FDA review of CRL	
EMV	EMvision Medical Devices Ltd.	104	- 9.8	- 25.6	- 36.2	- 55.3	Clinical trial Industry / Commercial enrolment collaboration opens	Clinical trial progress / insights	
EYE	Nova Eye Medical Ltd	35	- 4.0	26.3	- 5.9	- 42.2	Sales progression	Sales progression	Sales progression
HMD	HeraMed	33	- 17.6	16.7	- 12.5	- 26.3	Update/outcome of Spanish government tender		
LBT	LBT Innovations Limited	25	- 7.1	- 6.0	- 6.0	- 32.2	Partnership with global Pharma company to develop APAS- Pharma Pharma Non- dilutive funding to support new product pipeline	EU Distribution agreement and territory expansion with Top Tier channel partner	Instrument sales step-up increase compared to CY2022



Figure 17: Devices (cont'd)

							Minor	Mid	Significant	
			Sł	nare price	movem	ent (%)		Estimated timing on catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M	1M 3M 6M 12M 2H22 1H2023		1H2023	2H2023			
MX1	Micro-X Ltd.	68	3.7	- 6.7	- 40.	4 - 54.8	Aust Dept Defence Land 154 tender – 64 x Argus IED units	Global launch of Argus IED X-ray camera Prototype (miniature baggage scanner) accepted by DHS Tech transfer Varex / final licence p'ment		
OIL	Optiscan Imaging Limited	71	9.5	16.2	- 30.	3 - 50.0		FDA clearance for oral cancer US distributor Complete (oral). analysis - US/EU breast distributor cancer (life study sciences)	FDA clearance for oral cancer clinical trial	
PGC	Paragon Care Limited	218	- 16.9	16.7	- 13.	<mark>6</mark> 5.6	Sales progression	Sales progression	Sales progression	
RNO	Rhinomed Limited	39	- 15.6	- 15.6	- 41.	3 - 56.9		Sure BTNX- Screen- First Mute First orders device - orders of nasal expansion nasal swab into swab (10m (22.5m Amazon units over units over 24m) 24m)	Securing further of Mute of Mute antisnoring antisnoring products products into further into US retail Amazon outlets Germany	
RSH	Respiri	27	- 12.8	- 32.0	- 46.	0 - 50.7		CPT reimbursement expected for remote patient monitoring		
SOM	Somnomed Limited	137	26.0	39.8	•	8 - 24.7	ѕтеер аемсе	Sales progression	Sales progression	
VTI	Uscom Limited Visioneering Technologies Inc	12 5	- 23.1 - 32.8		•	9 - 55.1 3 - 77.7	Sales progression	Sales progression	Sales progression PROTECT Clinical Study (interim) release - one year data	



Figure 18: Diagnostics

								Minor	Mid	Significant
			S	hare price	e mo	vemer	nt (%)		Estimated timing on catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6N	1	12M	2H22	1H2023	2H2023
4DX	4D Medical	171	- 7.2	19.6	6 -	20.0	- 57.0	Progression of i-Med clearance rollout for CT variant	US regulatory clearance for CT product variant	Regulatory approval for XVD Lung Scanner
ADO	AnteoTech Ltd	99	- 9.1	- 31.	5 -	56.5	- 77.8	Complete clinical trials Sales progress		
AT1	Atomo Diagnostics Ltd.	34	1.7	- 6.3	3 -	47.8	- 82.9			Sales progression
GSS	Genetic Signatures Ltd.	115	- 9.6	- 18.4	4 -	40.3	- 47.0	Enteric kit FDA 510(k) submission	n Enteric kit FDA clearance	
LDX	Lumos Diagnostics	11	- 1.9	- 11.9	9 -	85.3	- 94.0	FebriDX FDA appeal outcome		
PIQ	Proteomics International Laboratories Ltd.	110	- 5.0	11.0) -	13.6	2.7	US license agreement with Sonic Healthcare USA finalised for ProMarkerFD	US reimbursement Esoph cancer DX DKD tests finalised	
RHY	Rhythm Biosciences Ltd.	247	- 8.8	- 23.0) -	22.7	- 4.6	TGA Commence approval distribution		
SHG	Singular Health	10	- 24.6	5.4	l -	52.2	- 44.0	Completio Comparati n of ve Study Integration IMCRC on Al- Project Designed Party AI (CSIRO & Cranial Models Customa) Implants	Application for FDA510(k) clearance for 3Dicom Surgical	
TRU	TruScreen	16	- 6.5	- 12.2	2 -	35.8	- 31.7	TruScreen - primary screening method in Zimbabwe Publication of research paper on TruScreen results in China		



Figure 19: Eye

							Minor	Mid	Significant			
			Sh	are price	movemer	nt (%)		Estimated timing on catalysts				
		Mkt Cap										
Ticker	Company Name	(A\$m)	1M	3M	6M	12M	2H22	1H2023	2H2023			
OPT	Opthea Limited	474	- 11.7	- 10.1	-	- 19.7			Ph3 ShORe & COAST wet complete recruitment			
PYC	PYC Therapeutics Limited	207	- 12.2	- 5.8	- 35.0	- 58.1	RP11 - IND submission	RP11 - Combo Ph1/2 commences	combo Ph1/2 lead	gram		



Figure 20: Fibrosis

							Minor	Mid	Significant
			Sh	are price	moveme	nt (%)		Estimated timing on catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12M	2H22	1H2023	2H2023
1AD	AdAlta Ltd.	15	- 3.9	8.9	- 31.	9 - 43.1	Collaborati on clinical on of AD-exploring developme 214 CXCR4 i- nt of indications bodies in cancer 214 II		
DXB	Dimerix Limited	48	11.1	- 3.2	- 6.2	2 - 46.4		FSGS Ph3 study Part 1 data (triggers options expiry to fund Part 2)	
PXS	Pharmaxis Ltd	43	- 7.1	13.0	- 22.) - 32.2	Ph1-2 Hepatocell ular study commenc ement Ph2a interim results MF	Ph1c top Ph2 top line results line results PXS-5505 in - Myelofibrosis establishe d scars	



Figure 21: Gut health

				Share price movement (%)							Minor Mid				Significant	
				Sh	are	price	mo	vemen	ıt (%	.)			Estimated	l timing on	catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	1M 3M 6M 12M						М		2H22		1H2023		2H2023
ANR	Anatara Lifesciences Ltd	4	-	5.7	-	18.0	-	45.7	-	64.3					GaRP; Phase I/II final results / commercial partnerships	
IMC	lmmuron	20		4.8	-	4.4	-	17.1	-	33.1	IMM-124E IND submissio n	Response Letter				IMM-124E ETEC: Topline results
MAP	Microba	38	-	30.0	-	36.4	-	65.9			New distribution partnerships		Ethics approval for Ph1 IBD (MAP- 315)	Immuno- oncology lead pre- clinical results	IBD (MAP- 315) Ph1 commenc ement	



Figure 22: Inflammation

							Minor	Mid	Significant	
			Sh	are price	movemen	nt (%)		Estimated timing on catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12 M	2H22	1H2023	2H2023	
ANP	Antisense Therapeutics Limited	58	- 5.5	7.5	- 28.3	- 70.3	Animal model - DMD Ph2b DMD Chronic combinatio dosing n study phase results data		Ph2b DMD - complete enrolment	
СҮР	Cynata Therapeutics Limited	47	-	- 14.3	- 18.5	- 46.3	Commence Ph2 GvHD trial	Data readout for diabetic doot ulcer (DFU) trial	Complete recruitment (n=440) Ph3 OA trial	
RGS	Regeneus Ltd.	12	- 16.7	- 27.3	- 32.2	- 47.4	Progenza (KOA) – the PMDA IND approval for a pivotal Ph2 trial in Japan	Sygenus – Progenza (KOA) – Ph1 pain trial JPN: establishment of manufacturing process commenc ement (US\$3m)	t) / k /)//:	



Figure 23: Medicinal cannabis

									Minor		Mid	Significant
			S	hare pri	e n	novemen	nt (%)				Estimated timing on catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M		6M	12M		2H22		1H2023	2H2023
BOD	Bod Australia	13	1.2	- 6.	3 -	- 51.6	- 69.	.4	Licensing agreement S3 CBD product	Commenc e Aqua Phase PK	CBD product	FDA NDA submission
CAN	Cann Group Ltd.	93	- 1.9	- 13	.1	- 35.4	- 8.	.6			Haleon S3 CBD capsule trial (GSK) S3 results distribution deal	T competition importing non GiVIP
EOF	Cann Group Ltd.	74	- 2.2	- 6.	4 -	- 51.1	- 73.		Ph3 sleep Results trial / TGA from product Endometri submissio osis / n GYN cancer study	Turf yarm production expansion / Fibre seed export		S3 registration decision by TGA
ZLD	Zelira	12	- 14.5	- 62	.3 -	- 60.6	- 81.	.8	Results from Zelira dia pain drug study			



Figure 24: Multi-indication

											Minor	Mid			Significant
				Sh	are p	orice	mo	vemer	nt (%)		Estimate	d timing or	catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	1M 3M 6M 12M					12	И	2H22		1H2023		2H2023
PAA	Pharmaust Limited	24	-	6.2	-	8.5	-	17.6	-	24.2	Ph2 canine trial results (B cell lymphoma)	P1/2 human MND trial results	Commenc e human cancer Ph2 trial	Commenc e COVID Ph2 trial	
NYR	Nyrada	20	-	7.1	-	21.2	-	35.0	-	44.7		Ph1	y Program: study ncement	Ph1 Cholestero I-Lowering Program start	



Figure 25: Oncology

							Minor	Mid	Significant	
			Sł	are price	movemer	nt (%)		Estimated timing on catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12M	2H22	1H2023	2H2023	
ATX	Amplia Therapeutics Ltd.	19	- 5.7	- 1.0	- 31.7	- 48.7			Ph2 pancreatic cancer top-line readout	
CU6	Clarity Pharmaceuticals Ltd.	153	- 6.3	- 3.3	3.1	- 46.4	Top-line Recruitme IND results: nt application Phase 1 complete outcome PROPELL in Phase for 1/2a theranosti diagnostic COBRA c trial of trial of diagnostic 64Cu/67C SAR- trial of u SAR- bisPSMA SAR- Bombesin	Full Advance results: to cohort 4 Ph1 Phase PROPELL 1/2a CL04 ER theranosti diagnostic c trial of trial of SARTATE SAR- in bisPSMA neuroblast Commerci al scale Cu-67 production online in the US	Top-line data: Phase recruitmen of Phase 1/2a t in 1/2 COBRA theranosti SECURE diagnostic c SAR- trial of Bombesin bisPSMA SAR- bisPSMA PSMA- c trial in	
IBX	Imagion Biosystems Ltd.	36	- 8.6	- 23.8	- 41.8	- 54.9	Ph1 HER2 study completion			
IMM	Immutep Ltd	268	8.9	- 6.2	- 11.6	- 45.0	New data from from Phase II TACTI-002 in 1L NSCLC HNSCC Initial results from INSIGHT- 003 (triple- combo data) - Nov. 11	Expansion of efti clinical program: including regulatory updates from FDA and/or EMA regarding proposed late-stage programs. Update for Immutep's preclin autoimmu ne disease candidate	Primary readout of ORR from Phase Ilb TACTI-003 in 1L HNSCC	
IMU	Imugene Limited	1,067	- 22.7	- 35.8	- 20.9	- 59.0		Ph1b: trial start - PD1. CHECKva combo with Atezo Ph1: OnCARlyti cs trial commenc es		
IVX	Invion Ltd.	74	- 11.5	15.0	- 23.3	- 17.9	Early Stage findings from atheroclerosis & infectious diseases (AID)			



Figure 26: Oncology (cont'd)

									Minor Mid			Significant		
		NII 4 O	Sh	are pr	ce n	noveme	nt (%)				Estimated timing or	catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M		6M	12M	1	2H22		1H2023			2H2023
KZA	Kazia Therapeutics Ltd	26	- 18.6	- 6	7.6 -	- 84.4	-	88.3	Paxalisib: peer-review brain cancer publ		Paxalisib Ph2: Interim data readout PCNSL study	EVT801 Ph1: interim data readout	Paxalisib:	GBM Agile - final data readout
MDC	Medlab Clinical Ltd	25	- 8.3	- 1	1.9	- 22.1	-	53.8	NASDAQ listing	NanoCelle RNA PoC	Manakie Phy ini	tiation		
NOX	Noxopharm Ltd.	56	- 22.4	- 1	1.6 -	- 40.6	-	66.4			IONIC study: Interim readout readout readout- NOX66 / nivolumab combo for patients with solid tumours CEP-2: Part 1 safety results / DARRT-2: Phase 1b/2a. Part 1 safety results	Chroma technology platform: Preclin results from pancreatic cancer study		
OSL	Oncosil	53	- 4.0	- 1 [·]	7.2 -	- 17.6		10.4	Approval in targeted commercial centres	FDA feedback on pivotal study design on LAPC				
РАВ	Patrys	41	- 13.0	- 1:	3.0 -	- 16.7	-	52.2			Completion of PAT- DX1 GLP toxicology studies	Completio n of PAT- DX3 Engineerin g run	Completio n of PAT- DX3 GLP toxicology studies	Initiation of PAT-DX1 phase 1 clinical studies



Figure 27: Oncology (cont'd)

							Minor	Mid	Significant
			Sh	are price	movemer	nt (%)		Estimated timing on catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12M	2H22	1H2023	2H2023
PTX	Prescient Therapeutics	119	- 5.7	- 2.9	17.9	- 28.3	PTX-100 full recruitment		
RAC	Race Oncology Ltd.	410	30.3	21.1	2.8	- 18.4	Initiation of Phase 1/2 Various Phase 2 Solid Preclinical Tumour results Trial	Interim Update of Phase 2 AML Trial	
RAD	Radiopharm	42	- 8.3	- 31.2	- 28.3		Ph2 Ph1 start: readout - Therapeuti Imaging	Ph1 start: Therapeuti c Trial Nanobody- PDL1 Ph1 commencement: PSA-mAb	
TLX	Telix Pharmaceuticals Ltd.	1,750	- 4.1	- 4.9	19.7	- 5.9	Health Canada ZIRCON study readout regulatory decision (Illuccix)	CUPID alpha ProstACT Brazil SELECT regulatory interim update (Illuccix)	



Figure 28: SaaS

									Minor	Mid	Significant		
				Shar	e price	moveme	nt (%)		Estimated timing on catalysts				
Ticker	Company Name	Mkt Cap (A\$m)	1M	3	М	6M	12M		2H22	1H2023	2H2023		
ALC	Alcidion Group Limited	171	- 3	3.6 -	3.6	- 32.5	- 6 ⁻	1.8	Contract win announcements	Contract win announcements	Contract win announcements		
GLH	Global Health	15	- 15	5.6 -	14.3	- 6.9	- 2 ⁻	1.7		In-patient EMR (A digital medical records solution for private/independent hospitals)			
IPD	Impedimed Limited	127	-	1.4	29.1	- 43.2	52	2.7	First Reimburse Potential inclusion in ment NCCN guidelines Policy Determinat ions				
IME	ImExHS Limited	20	_	1.0 -	28.7	- 45.1	- 63	3.5	Breakthrough cashflow/EBITDA +ve on a monthly run-rate basis New larger contract wins	New contract wins	New contract wins		
M7T	Mach7 Technologies Ltd.	127	- 19	9.1 -	20.9	- 25.4	- 40	6.7	New contract wins	New contract wins	New contract wins		
VHT	Volpara Health Technologies Ltd.	146	Ę	5.5	5.5	- 34.1	- 53	3.2	Expansion of key partnerships / "Elephant hunting"	Expansion of key partnerships / "Elephant hunting"	Expansion of key partnerships / "Elephant hunting"		



Figure 29: Services

											Minor		Mid			Significant
				Sh	are	price	mον	vemen	nt (%)				Estimate	d timing or	catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M		3M		6M	l	12N	1		2H22		1H2023		2H2023
MEM	Memphasys Ltd	17	-	18.2	-	49.0	-	68.6	-	69.1	Monash study complete	Clinical sales progress	Clinio	cal sales pro	ogress	Clinical sales progress
OPL	Opyl Ltd.	3	-	12.3	-	2.0	-	31.5	-	68.8	Opin 2.0: F	Partner with Asian CRO	Partner with US CRO	Data trial #4: TrialKey	First customer TrialKey	

Figure 30: Skin

							Minor	Mid	Significant
			S	hare price	movemen	nt (%)		Estimated timing on catalysts	
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M	12M	2H22	1H2023	2H2023
ВОТ	Botanix Pharmaceuticals Limited	73	-	- 6.9	- 19.3	-	Sofpironium Bromide day 74 letter	Sof Bro mid cycle review guidance	Sof Bro approval

Source: Morgans estimates, company data, FACTSET, Prices as at 17 Oct 2022



Figure 31: Veterinary

										Minor	Mid		Significant	
				Sha	are price	mo	vemen	nt (%)			Estimated timing on	catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M		3M	61	И	12M		2H22	1H2023		2H2023	
АНХ	Apiam Animal Health Ltd.	127	- 2	2.7	2.8	-	9.6	-	22.3	Strategic acquisitions (ongoing)	Strategic acquisitions (ongoing)	Realisatio n of cost base leverage / margin expansion	(ongoing)	Realisatio n of cost base leverage / margin expansion
BGT	Bio-Gene	19	- 2	2.3	- 19.2	-	61.1	-	22.2	Developme nts relating to manufacturing process developme nts for Flavocide				

Figure 32: Viral

										Minor		Mid	Significant	
			Share price movement (%)							Estimated timing on catalysts				
		Mkt Cap												
Ticker	Company Name	(A\$m)	1M		3M		6M	12M		2H22		1H2023	2H2023	
BIT	Biotron Limited	34	-	14.3	- 20	0.0	- 40.0) -	9.4	***************************************	***************************************	Topline Ph2 results - HIV		
200000000000000000000000000000000000000	Recce									Licencing and R	327 Ph2	R327 Ph2 UTI trial	Sonsie: Phase lh/lia study	
RCE	Pharmaceuticals	118	-	5.0	- 17	7.5	- 28.6	5 - 2	28.6	partnering D	FU trial	commencement	Sepsis: Phase lb/lia study completion	
***************************************	Ltd.									developments st	tart	Commencement	Completion	

Source: Morgans estimates, company data, FACTSET, Prices as at 17 Oct 2022



Figure 33: Wound

							Minor	Mid	Significant	
			Sh	are price	movemen	nt (%)		Estimated timing on catalysts		
Ticker	Company Name	Mkt Cap (A\$m)	1M	3M	6M 12M		2H22	1H2023	2H2023	
ARX	Aroa Biosurgery	271	- 2.5	10.5	3.3	- 31.9	Sales progress	Sales progress	Sales progress	
AVH	AVITA Medical Inc	181	- 23.0	- 9.6	- 32.9	- 69.0	Vitiligo + soft tissue repair: FDA submission for approval		Vitiligo + soft tissue d Vitilago repair: FDA PMA device: FDA submissio	
NXS	Next Science Ltd	163	- 6.2	- 2.6	- 6.2	- 41.8	XPERIENCE - Compound Fracture infection pilot study results	Animal Study on effectiveness	DAIR Study on Invivo acutely infected joints Study results	
TRP	Tissue Repair Ltd		- 8.8	- 3.1	- 10.1		Real-world data readout TR-Pro+	End of Commercial launch TR-Ph2 Pro+ meeting with FDA	Commence Ph3 trial - Chronic Wounds	



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