UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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Form	6-K	

Report of Foreign Private Issuer Pursuant to Rule 13a-16 or 15d-16 under the Securities Exchange Act of 1934

For the month of May, 2023

Commission File Number: 001-41106

Incannex Healthcare Limited (Exact name of Registrant as specified in its charter)

not applicable (Translation of Registrant's name into English)

Australia (Jurisdiction of incorporation or organization)

Joel Latham
Chief Executive Officer and Managing Director
Level 39, Rialto South Tower
525 Collins Street
Melbourne 3000
Australia
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F:
Form 20-F \boxtimes Form 40-F \square
$Indicate \ by \ check \ mark \ if \ the \ registrant \ is \ submitting \ the \ Form \ 6-K \ in \ paper \ as \ permitted \ by \ Regulation \ S-T \ Rule \ 101(b)(1):$
Yes □ No ⊠
$Indicate \ by \ check \ mark \ if \ the \ registrant \ is \ submitting \ the \ Form \ 6-K \ in \ paper \ as \ permitted \ by \ Regulation \ S-T \ Rule \ 101(b)(7):$
Yes □ No ⊠

INFORMATION CONTAINED IN THIS REPORT ON FORM 6-K

On May 3, 2023, Incannex Healthcare Limited filed with the Australian Securities Exchange an announcement captioned "IHL-675A Phase 1 Results Presentation", a copy of which announcement is attached to this Form 6-K as Exhibit 99.1.

Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Incannex Healthcare Limited

Date: May 3, 2023 By: /s/ Joel Latham

Name: Joel Latham

Title: Chief Executive Officer and Managing Director

INDEX TO EXHIBITS

Exhibit No. 99.1 ASX Announcement, dated May 3, 2023 – IHL-675A Phase 1 Results Presentation



IHL-675A

Phase 1 clinical trial to assess safety and pharmacokinetics as a potential anti-inflammatory drug candidate

ASX Ticker: IHL | NASDAQ Ticker: IXHL

Disclosure and Disclaimer

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Results Summary

IHL-675A Phase 1 clinical trial

The 36 patient clinical trial demonstrates IHL-675A to be well tolerated, with no serious adverse events of concern.





About

IHL-675A

IHL-675A is a cannabinoid combination drug comprising hydroxychloroquine sulphate ('HCQ') and cannabidiol ('CBD').

HCQ is a disease-modifying anti-rheumatic drug (DMARD) that works by calming a person's immune system.

CBD is a non-psychoactive phytocannabinoid derived from the cannabis plant, associated with anti-inflammatory and analgesic activity.

Incannex has demonstrated that IHL-675A components, HCQ and CBD act synergistically to inhibit production of inflammatory cytokines and reduce disease severity in animal models of:

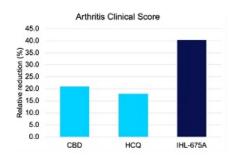
- Rheumatoid arthritis
- Inflammatory lung conditions
- Inflammatory bowel diseases

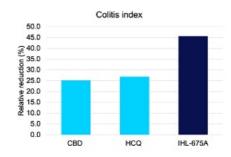


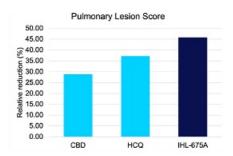
Performance Results

IHL-675A Reducing disease severity in animal models

IHL-675A outperformed HCQ and CBD administered alone at reducing inflammatory disease scores — a strong efficacy signal demanding clinical assessment.









IHL-675A Results Presentation

Clinical development

IHL-675A

- Animal disease model results were a major commercial signal: targeting the disruption of incumbent multi-billion dollar markets for diseases of inflammation.
- The addressable target markets exceed \$125B per annum globally and include rheumatoid arthritis, COPD, asthma, bronchitis, colitis and Crohn's disease.
- IHL-675A Phase 2 clinical trial launched for patients with rheumatoid arthritis.
- Phase 2 trials for inflammatory lung conditions and inflammatory bowel disease are currently in planning.

Addressable Market

^\$125B

per annum globally

Including; Rheumatoid arthritis, COPD, Asthma, Bronchitis, Colitis and Crohn's disease





IHL-675A First assessment in humans

Aim

To assess the safety, tolerability and pharmacokinetics of IHL-675A compared to reference listed drugs for CBD and HCQ, marketed as Epidiolex and Plaquenil respectively, in healthy volunteers.

Three-armed study with twelve patients per arm



Monitoring, including PK blood sample collection and ECG over 4 weeks

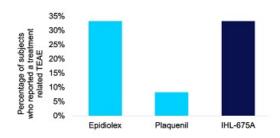


IHL-675A Results Presentation

Results

IHL-675A → Safety/tolerability results

- No adverse events of concern.
- Adverse events were consistent with public reports for Epidiolex and Plaquenil.
- Treatment-related treatment emergent adverse events (TEAEs) included abdominal pain, dizziness, fatigue, frequent bowel movements, headache and somnolence.
- The number of TEAEs for IHL-675A was the same as Epidiolex.
- All TEAEs were mild in severity with the exception of one incident of abdominal cramps of moderate severity in the IHL-675A group, which resolved soon after onset.
- No cardiac related TEAEs were reported.



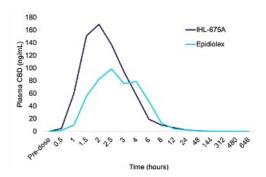


IHL-675A Results Presentation

Results

Pharmacokinetics: CBD —

- Compared to Epidiolex, CBD dosed in IHL-675A:
 - Reached a greater maximum concentration (Cmax), 1.57 times higher
 - Was taken up more rapidly (Tmax), 26 % faster
 - Was cleared more quickly (Ti/2), 13 % faster
 - Had a similar level of total exposure (AUCinf)
- These differences are only trends at this point (p>0.05).
- Similar patterns were observed for major CBD metabolites
 7-COOH-CBD and 7-OH-CBD.

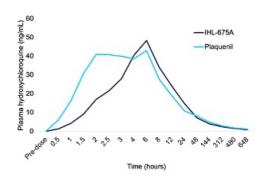




Results

Pharmacokinetics: HCQ —

- Compared to Plaquenil, HCQ from IHL-675A was:
 - Taken up more slowly (Tmax), 46% slower
 - Reached a similar maximum concentration (Cmax)
 - Had a similar rate of clearance (Ti/2)
 - Had a similar total exposure (AUCin)
- These differences are only trends at this point (p>0.05).
- Only low (average < 2 ng/mL) concentrations of HCQ metabolites desethylhydroxychloroquine, bisdesethylhydroxychloroquine and desethylchloroquine were detected at all points in the study.





Conclusions

01.

IHL-675A is well tolerated in healthy volunteers.

02.

Adverse events for IHL-675A were consistent with what was observed, and has been publicly reported for Epidiolex and Plaquenil.

03.

Both active pharmaceutical ingredients, CBD and HCQ, are absorbed from IHL-675A.

04

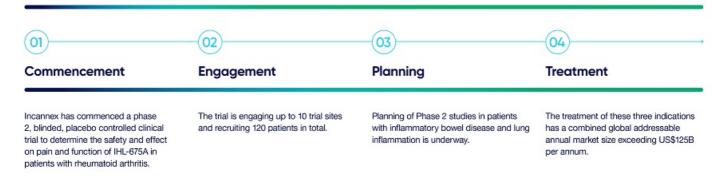
Trends in PK profiles indicate that the uptake of CBD may be more rapid for IHL-675A than Epidiolex and the uptake of HCQ may be slower for IHL-675A than Plaquenil.

05.

This could be advantageous for IHL-675A. CBD provides immediate relief for inflammation and pain whereas HCQ is a slower acting molecule and provides extended relief.

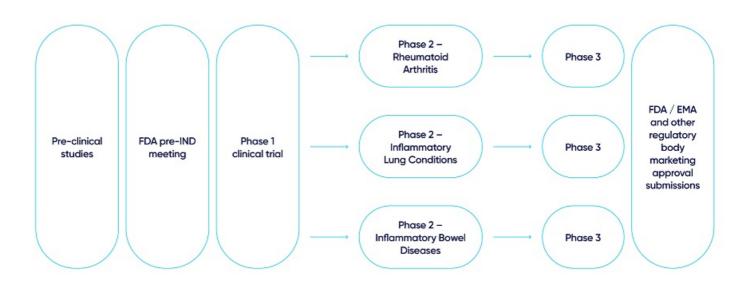


Phase 2 Clinical Trials





Clinical and Regulatory Progression





IHL-675A Results Presentation

CBD and metabolite PK results

		IHL-675A				Epidiolex			
		Cmm	Teax	AUCinf	Tve	Ceas	Tree	AUCint	T _{1/2}
		(ng/mL)	(hr)	(hr*ng/mL)	(hr)	(ng/mL)	(hr)	(hr*ng/mL)	(hr)
CBD	Mean	207.04	2.13	841.08	220.17	131.89	2.88	725.9	231.22
	SD	117.44	0.91	358.63	53.85	61.92	1.21	223.98	56.45
	Min	72.6	1.02	391	113.84	45.6	1.5	355	144.41
	Max	472	4	1699	301.17	241	6	1121	305.88
	Mean	55.24	2.17	389.18	40.54	21.06	3	262.27	21.15
OU 000	SD	34.58	0.94	214.49	52.79	9.15	1.22	103.96	10.05
7-OH-CBD	Min	14.9	1.02	220	10.78	7.7	1.5	149	10.54
	Max	116	4	950	202.58	38.4	6	448	49.36
	Mean	479.75	2.83	18753.9	167.87	362.17	4.97	16268	153,68
7-COOH-CBD	SD	218.74	1.2	8979.02	95.47	299.63	1.3	11069.2	92.41
	Min	209	1.5	11445	46.03	116	2.5	4475	18.47
	Max	921	6	43714	332.65	1180	6.05	42018	317.68



IHL-675A Results Presentation

HCQ and metabolite PK results

NA - metabolite not detected at levels is efficient to colocate DK recommends

			IHL-675A				Epidiolex			
		Cmax	Twax	AUCire	Tuz	Cres	Tesas	AUCiet	Tuz	
		(ng/mL)	(hr)	(hr*ng/mL)	(hr)	(ng/mL)	(hr)	(hr*ng/mL)	(hr)	
нсо	Mean	54.71	5.59	2986	182.62	55.52	3.46	3430.8	251.6	
	SD	23.85	2.51	1244.46	93.7	24.81	1.94	1104.38	73.65	
	Min	22	2	800	35.68	26.1	1	2073	163,92	
	Max	105	12.03	4217	311.57	124	6	5888	421.51	
DESETHYL- HYDROXY- CHLOROQUINE	Mean	1.38	81.08	NA	NA .	1.29	17.46	NA	NA	
	SD	1.24	183.01	NA	NA	1.04	35.04	NA	NA	
	Min	0	0	0	0	0	0	0	0	
	Max	4.4	673.83	0	0	3.3	123.93	0	0	
THYL- CHLOROQUINE	Mean	0.8	7.77	NA	NA	0.42	5.59	NA	NA	
	SD	0.72	13.03	NA	NA	0.84	13.58	NA	NA	
	Min	0	0	0	0	0	0	0	0	
	Max	2	49.05	0	0	2.9	49.07	0	0	
BISDESETHYL- HYDROXY- CHLOROQUINE	Mean	0	0	NA	NA	0	0	NA.	NA	
	SD	0	0	NA	NA	0	0	NA	NA	
	Min	0	0	0	0	0	0	0	0	
	Max	0	0	0	0	0	0	0	0	





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