



Successfully raises \$A12 million and lists on the Australian Stock Exchange ASX Code: IXC 5 July 2019



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Invex Therapeutics - ASX:IXC

- Invex Therapeutics (Invex or the Company) was established March 2019
- Focused on repurposing Exenatide for neurological conditions involving raised intracranial pressure such as idiopathic intracranial hypertension(IIH)
- Assignment of intellectual property from University of Birmingham, United Kingdom
- Prof Alexandra Sinclair is a founder of Invex, CSO and Executive Director
 - clinician and global leader in the pathophysiology of idiopathic intracranial hypertension and headache, with over 10 years research in this field
- Successful Initial Public Offering (IPO) raised the maximum of \$A12 million to fund the proposed later stage research and development programme
- Directors and founding shareholders have committed more than \$A2.5 million in seed capital and investment at IPO



Capital Structure & Major Shareholders

Capital Structure

• 5	Shares	on	Issue	55	mi
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Unlisted Options* 3 mil @ 60c

Cash ~\$A11.3 mil

Market Cap \$A 22 mil

Major Shareholders

Top 20

 Directors / Management 	20%
 Minderoo Pty Ltd 	9.1%
 Kim Hogan 	7.3%
 Tony Grist 	7.3%
 Tom Henderson 	7.3%
 Jason Peterson 	4.5%
 University of Birmingham 	3.6%



80%

^{*} To be issued within three months of admission to ASX

Board and Management Team

- Dr Jason Loveridge, Chairman
 - Experienced life science investor & CEO
- Prof Alexandra Sinclair, Executive Director and Chief Scientific Officer
 - Global scientific & clinical leader in IIH
- Mr David McAuliffe, Non Executive Director
 - Founder of numerous life science companies
- Ms Narelle Warren, Non Executive Director and Company Secretary
 - Expertise in finance and compliance



IPO Investment Highlights

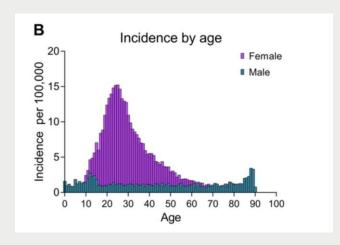
- Completed proof-of-concept preclinical in-vitro and in-vivo studies
 - data published in world leading scientific journal
- Orphan Drug Designations granted for IIH in Europe (EMA) and in the US (FDA)
- Phase II proof of concept clinical study initiated in IIH
- Lower development risk
- Faster commercialisation strategy
 - an established lower cost business model
- World-class scientific and management team
- Key patent applications filed in 2014 (UK, US, EU)
 - assigned to Invex from University of Birmingham, UK @ IPO





Idiopathic Intracranial Hypertension (IIH)

- Disease characterised by raised intracranial pressure & papilloedema
- Symptoms
 - severe headaches
 - visual impairment, with ~25% of patients experiencing permanent loss of vision
- 90% of IIH patients are obese women of childbearing age



IIH peaks between years 20-30



Ongoing Phase II Study in IIH

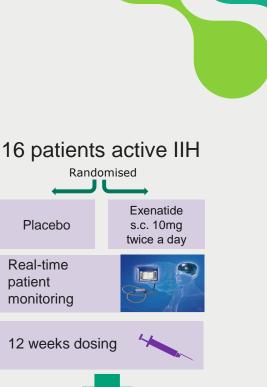
- Phase II proof of concept single centre study
- Randomised double blinded Phase II clinical study
 - 10 patients enrolled & completed to date
 - 6 patients still to be enrolled
 - top-line dataset available 1H, 2020

Secondary

- Headache measures (frequency, severity, duration, analgesic use, Hit-6)
- Visual assessments (visual field, papilloedema measured by OCT)
- Quality of Life measures

Exploratory

- Serum and cerebrospinal fluid (CSF) Exenatide levels
- Modulation of serum and CSF (adipokines, gut neuropeptides, biomarkers and fat distribution)

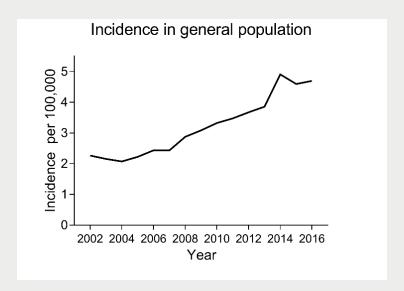


Changes in Intracranial Pressure



Rising IIH Incidence Linked to Obesity

- IIH is a rapidly growing orphan indication
 - incidence of IIH has more than doubled in the last 10 years
 - incidence is strongly linked to obesity in women





IIH diagnosis 5-steps, Standardised, Rapid



A. Papilloedema 100% 95% of IIH patients present at either A&E or opticians and are Normal neurological examination referred to a neurologist for diagnosis & treatment C. Normal Brain Imaging D. Normal cerebrospinal fluid (CSF) composition Elevated lumbar puncture opening pressure (≥ 25cmH₂O)

No approved drugs in IIH and a lack of an effective treatment is the real issue!!



IIH Treatment Guidelines

- Leading role played by Invex's founder Prof Alexandra Sinclair
- Currently no approved drugs for IIH



General neurology



REVIEW

Idiopathic intracranial hypertension: consensus quidelines on management

Susan P Mollan, ^{1,2} Brendan Davies, ³ Nick C Silver, ⁴ Simon Shaw, ⁵ Conor L Mallucci, ^{6,7} Benjamin R Wakerley, ^{8,9} Anita Krishnan, ⁴ Swarupsinh V Chavda, ¹⁰ Satheesh Ramalingam, ¹⁰ Julie Edwards, ^{11,12} Krystal Hemmings, ¹³ Michelle Williamson, ¹³ Michael A Burdon, ² Ghaniah Hassan-Smith, ^{1,12} Kathleen Digre, ¹⁴ Grant T Liu, ¹⁵ Rigmor Højland Jensen, ¹⁶ Alexandra J Sinclair ^{1,2,12,17}

Hoffmann et al. The Journal of Headache and Pain (2018) 19:93 https://doi.org/10.1186/s10194-018-0919-2

The Journal of Headache and Pain

CONSENSUS ARTICLE

Open Access

European Headache Federation guideline on idiopathic intracranial hypertension



Jan Hoffmann^{1*}, Susan P Mollan², Koen Paemeleire³, Christian Lampl⁴, Rigmor H Jensen⁵ and Alexandra J Sinclair⁶

HOW TO DO IT



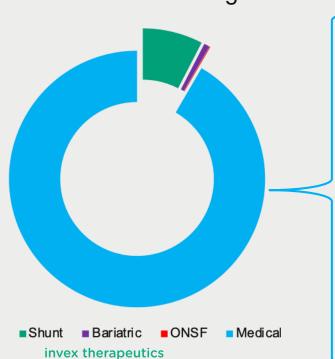
Evaluation and management of adult idiopathic intracranial hypertension

Susan P Mollan,^{1,2} Catherine Hornby,^{1,3} James Mitchell,^{1,3,4} Alexandra J Sinclair^{1,2,3,4}



Current Therapeutic Options are Ineffective

All current medicines for IIH are unapproved*, outdated, work poorly and cause debilitating side effects



Acetazolamide (1954)

Most commonly used drug in IIH
Cochrane review IIH in August 2015 concluded:
"Insufficient evidence to recommend or reject the efficacy of acetazolamide for treating IIH"

Cochrane

Topiramate (2012)

Prospective open label trial ACZ vs. TOP (Çelebisoy et al. 2007) Reduction in ICP in both groups, equivalence between groups

Furosemide/Amiloride

Animal studies only, showing reduction in CSF production (Vogh et al. 1982, Melby et al. 1982)

Octreotide

Small prospective open label study with no control showed significant reduction in headache, ICP, and papilloedema (Panagopolous et al. 2007)



^{*} In IIH, ONSF: Optic Nerve Sheath Fenestration, ICP: Intracranial pressure,

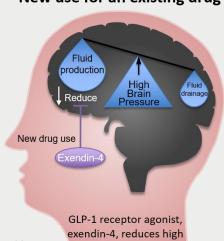
Exenatide – Novel Approach to Raised ICP

- Exenatide is a small peptide that binds the GLP-1 receptor
- GLP-1 receptor agonists like Exenatide decrease fluid secretion in the kidney and are used extensively to treat diabetes

 Prof Alexandra Sinclair has shown that GLP-1 receptors are also expressed in the choroid plexus (in the brain), and that in animals

New use for an existing drug

- Exenatide can bind to these receptors
- reduce cerebrospinal fluid secretion
- provide fast onset of action making it suitable for treating patients with raised intracranial pressure



brain pressure



Invex Proprietary Patented* ICP Blocker

- Exenatide in its Byetta® form was approved in 2005 for the treatment of type II diabetes in both the EU & US
 - administered as a twice-daily sub-cutaneous injection
 - commercialized by AstraZeneca
 - safe and well tolerated drug used in millions of diabetic patients**
- Current Exenatide dosing forms are not optimised for IIH
 - only available in 5 or 10mg pre-filled injection pens or long acting weekly injection
- Invex intends to utilise its unique insight into diseases characterised by raised ICP to develop proprietary, patented* dosage forms of Exenatide for IIH and other diseases characterised by raised ICP



Invex's Repurposed Pressure Blocker

- Proprietary and patented
- Aim to be the first & only drug for IIH patients
 - approved for the disease (IIH) by EMA & FDA
 - safety and efficacy established by statistical significance in randomised, double blinded clinical trials
 - assigned unique National Drug Codes
- First mover advantage ensures competing drugs would need to be compared to and be better than Invex's IIH drug in order to gain approval
- Proprietary dosage supported by clinical safety and efficacy prevents substitution with Byetta[®]



Repurposing Approved Drugs An Established, Successful Business Model

Drug	Original Disease
Azathioprine	Rheumatoid arthritis
Bleomycin	Various cancers
Colchicine	Gout
Cycloserine	Urinary tract infection
Cyclosporine	Rheumatoid arthritis
Eflornithine	Unwanted facial hair
Everolimus	Renal cancer
Histrelin	Prostate cancer
Infliximab	Ulcerative colitis
Interferon alpha	Hepatitis B & C
Rituximab	Rheumatoid arthritis

I	New Ornhan Diagons
ı	New Orphan Disease
	Renal transplant
	Pleural effusion
	Mediterranean fever
	Tuberculosis
	Transplant rejection
	Sleeping sickness
	Renal transplant
	Precocious puberty
	Chron's disease
	Cancer
	Cancer



invex therapeutics Source: The US FDA

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