

Neuren Pharmaceuticals (ASX: NEU)

Dr Parmjot Bains and Dr Robin Congreve

Presentation

Annual Shareholders' Meeting 29 May 2008

Neuren



An emerging global leader in the treatment for central nervous system disorders and brain injury

Agenda



- Neuren Today
- Year in Review
- Opportunity Update
- The Year Ahead

Neuren Today



- Focus on three very promising late stage clinical candidates
- Grant funded development of preclinical candidates with the view to partnering
- Management focus on creating shareholder wealth through the fast and efficient progress of our clinical trial programs

The Year in Review



Achieved:

Capital Raising and Business Development

- Raised AU\$7.1M in January 2008
- Secured US\$4M US Department of Defense funding for NNZ-2566 Phase II
- Acquisition of Hamilton and MotivaTM
- Leading US life science investors join share register

Team Changes

- New joint-CEOs appointed
- Reorganised in-house pre-clinical team

The Year in Review, continued



Trial Progress

- Glypromate[®] trial under US IND enrolment on target with 272 patients and positive DSMC safety review
- NNZ-2566 successful Pre-IND meeting with an IND filing pending in Q3 2008
- NNZ-2566 Phase II sites and world-class investigators recruited
- MotivaTM Phase II under an open IND, and a new protocol being finalised and study set up activities underway

Product Development Status



Current stage of program

Lead Programs – central nervous system and brain injury	Preclinical	Phase I	Phase II	Phase III
Glypromate® – Cognitive impairment post cardiac bypass surgery				Pivotal results expects Q2 2009 PIIIb in 2010
Motiva [™] – Post Stroke Apathy and Depression	PIIb	results expe	cted Q4 2009	PIII to begin 2010
 Post Traumatic Brain Injury Apathy and Depression 	PII to begi	n Q1 2009, re	sults in early 2010	
 Parkinson's Disease Apathy and Cognitive Impairment 	PII to begi	n Q3 2009, re	sults in 2010	
 Epilepsy (specific indication to be confirmed) 	PII to begi	n Q3 2009, re	sults in 2010	
NNZ – 2566 (IV) – Traumatic Brain Injury	PII to begi	in Q3 2008	PIIb/I 2010	II to begin
Preclinical Programs				
NNZ - 2591 (DKP) - Parkinson's Disease and Dementia				
NNZ - 4945 (NRP) - Neuropathy				
Macrocyclics - Neuroprotection				
Anti-TFF mAbs - Oncology				
Anti-hGH mAbs – Oncology				
GH Variants – Metabolism				

MotivaTM



Dysmotivational syndrome common to many acute and chronic CNS disorders

- Results from damage or neurodegeneration, particularly in the frontal lobe
- A primary obstacle to rehabilitation and improved functional performance

Large and unmet need

- Recognized need but no drugs approved for the indication or effective off-label
- No competition from drugs in development or Phase IV studies of approved drugs
- Potential patient population of >4 million patients (depression, AD, PD, stroke, schizophrenia, TBI)

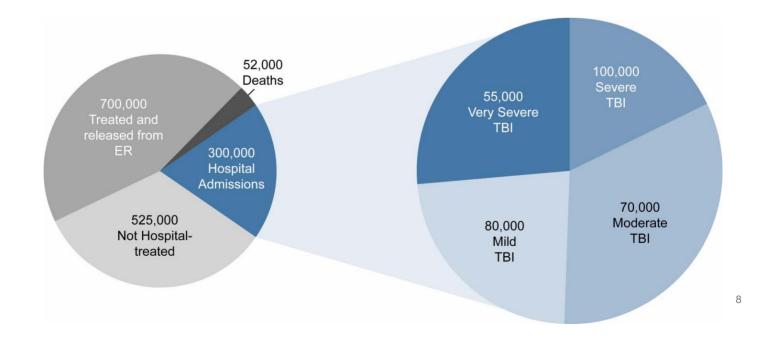
Significant upside potential

- Revenue estimate of US\$~700m 5 years post-launch
- Target providers are virtually all psychiatrists and neurologists
- Potentially strong pharmacoeconomic justification for third party payers
- FDA approval path fairly straight forward

NNZ-2566



- Traumatic brain injury (TBI) is a major problem
- 1.5 million head injuries per year in the US
- 850,000 mild-moderate, 155,000 severe
- US\$50 billion in direct and indirect costs to healthcare system
- No approved therapy and few drugs in development



Pre-IND Meeting: 21 May 2008



- Met with Russell Katz, MD (Director) and medical, pharmacology/toxicology, Chemistry reviewers from Neurology Products Division
- Chemistry Manufacturing and Controls (CMC)
 - no concerns expressed

Regulatory

- Fast Track status likely to be granted
- Orphan Disease status possible
- Single pivotal trial possible with very robust and persuasive results

Clinical

- Selected global outcome measures, neuropsychological outcomes and physiological outcomes (cEEG and biomarkers) acceptable for Phase II
- Open to use of novel endpoints (e.g., seizures, neuropsychological outcomes) in pivotal trial with evidence of clinical benefit for patients
- Confirmed that there are no a priori standards for magnitude of effect and that, in the TBI indication, a small but clinically meaningful effect could be approvable

World-Class NNZ-2566 Advisory Team



Ross Bullock, MD, PhD

 Professor and Director of Neuroscience Intensive Care, Division of Neurosurgery, University of Miami; leading expert in TBI clinical trial design and execution

James Ecklund, MD (COL, USA, retired)

 Chief, Neurosurgery, Fairfax Inova Medical Center; former Chief, Neurosurgery, Walter Reed Army Medical Center and Professor, Department of Neurosurgery, Uniformed University of the Health Sciences

COL Geoffrey Ling, MD, PhD

Program Manager, DARPA/Defense Science
 Office; previously, Professor and Acting Chair,
 Department of Neurology, Uniformed University
 of the Health Sciences

COL Charles Hoge, MD

Director, Division of Psychiatry and Neurobiology,
 Walter Reed Army Institute of Research; Army
 psychiatrist and epidemiologist and leading
 expert on military TBI and PTSD

Frank Tortella, PhD

 Chief, Dept of Applied Neurobiology, Walter Reed Army Institute of Research; leading expert in experimental pharmacology of TBI

Paul Vespa, MD

 Associate Professor of Neurology and Neurosurgery and Director of Neurocritical Care, UCLA Medical Center; leading expert on EEG monitoring in TBI

Jeffrey Vaught, PhD

Executive VP, Research and Development,
 Cephalon, Inc.; expert in regulatory
 development of drugs for CNS conditions

Glypromate®



CABG and CPB result in over 350,000 patients with persistent cognitive impairment

- Equivalent to the difference in function between a 40-year old and a 60-year old
- >50% impaired at discharge, >20% at 6 months, >40% at 5 years⁽¹⁾
- Primary factor diminishing quality-of-life benefits of the surgery
- Increases risk of Alzheimer's disease⁽²⁾

Significant pharmaco-economic benefit

 Potential to reduce costly utilization of hospital/intermediate care services and total cost of care

Unmet medical need

- Accepted target for therapeutic intervention by FDA and EMEA
- Defined as a therapeutic goal by the ACC and AHA
- No approved drugs (US\$1.5 billion worldwide market opportunity)

⁽¹⁾ Newman et al. Longitudinal Assessment of Neurocognitive Function After Coronary Artery Bypass Surgery. *New England Journal of Medicine*, 2001; 344(6):395-402.

⁽²⁾ Lee et al. Assessment of the emergence of Alzheimer's disease following coronary artery bypass graft surgery or percutaneous transluminal coronary angioplasty. *Journal of Alzheimer's Disease*, 2005; 7:319-324.

The Market Opportunity



- Three compounds with few or no competitors
- Indications with a large, unmet need (Coronary Artery Bypass Grafts, Traumatic Brain Injury, Apathy)
- Cumulative conservative \$US3bn estimated market
- Compounds in late stage clinical development
 - Proven human efficacy in Motiva[™]
 - Glypromate[®] in pivotal Phase III trial
 - NNZ-2566 to enter Phase II trial, with fast track status
- Major milestones to development already met
 - Safety
 - CMC scale up
 - Open IND for MotivaTM and Glypromate [®]

The Year Ahead



- Resolve long-term capital needs to the benefit of all shareholders
- Promising lead compounds Glypromate[®], Motiva[™] and NNZ-2566 on track for major valuation milestones
 - Confirmed efficacy of Glypromate® in Phase III / major efficacy trial
 - Confirmed efficacy of Motiva[™] in Phase IIb moving into pivotal trials (Phase III)
 - Confirmed efficacy of NNZ-2566 in Phase II moving into pivotal trial under Fast Track
- Confirm significant partnering opportunities for pre-clinical pipeline
- Management's total focus is the creation of shareholder value, minimizing our risks and maintaining tight control over our costs.

Future Milestones



•	Glypromate [®]		Timing	Status		
	_	100 patients data safety review	Q2 2008	\checkmark		
	_	300 patient data safety and sample size review	Q4 2008	on track		
	_	Completed recruitment	Q4 2008	on track		
	_	Announce results	Q2 2009	on track		
•	Мо	Motiva TM				
	_	Form committee around clinical strategy	Q2 2008	\checkmark		
	_	Complete amended protocol	Q3 2008	on track		
	_	File protocol amendment	Q3 2008	on track		
	_	Start Phase IIb in post-stroke psychiatric sequelae	Q3 2008	on track		
•	NN	Z-2566				
	_	Pre IND Meeting	Q2 2008	\checkmark		
	_	IND submission	Q3 2008	on track		
	_	Initiate NNZ-2566 Phase II	Q3 2008	on track		
	_	Results	Q1 2010	on track		

Financial Snapshot



ASX code: NEU

Shares on issue: 219.96 million

Market Cap: ~ \$24M

Cash on hand: A\$4.2M (31 March)

Number of employees: 16

Top 20 shareholders: > 67 % of shares

Summary



- An emerging global leader in treatments for central nervous system disorders and brain injury
- Three very promising late stage clinical candidates moving closer to registration
- Confident we have a very promising year ahead of us

Contact Us



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