pharmaxis

Therapeutic products for respiratory and autoimmune diseases

March 2006

Forward Looking Statements

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Summary

Mission	To research, develop and bring to market innovative therapeutic products for the treatment and management of respiratory and autoimmune diseases			
Lead products	Aridol: management of asthma and COPD			
	Bronchitol: therapeutic for cystic fibrosis and COPD			
Discovery	PXS64 - multiple sclerosis			
Listings	ASX (Nov 2003): PXS; NASDAQ (Aug 2005): PXSL			
Location	Sydney, NSW, Australia			
Facility	GMP Manufacture of lead products			
Employees (28/2/06)	50			
Cash (31/12/06)	A\$106.4m			
Shares outstanding	174.4m (11.6m ADS)			
Options outstanding	11.7m			
Key patents	Aridol & Bronchitol granted in USA, Australia, Asia; pending in EU and Canada			
Analyst coverage	CIBC CIBC World Markets VilsonHTM VilsonHTM			

Pipeline

Pulmonary and Autoimmune Focus

	Clinical Trials						
Respiratory diseases	research	preclinical	phase I	phase II	phase III	registration	Market
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Aridol – asthma					USA	Europe	Aus
Aridol - COPD							
Bronchitol - bronchiectasis							
Bronchitol – cystic fibrosis							
Bronchitol - chronic bronchitis							
Autoimmune diseases							
PXS25/64 - multiple sclerosis							
PXS2076 – rheumatoid arthritis	S						

Recent Highlights....





- Completed Phase III asthma management (Aus and EU)
- Positive ADEC opinion received on market application (Aus)
- Market application lodged in Europe (April 2005)
- US Phase III study in progress completion 2006
- Two marketing/distribution partners appointed in Europe
- Australian launch at TSANZ 28 March?



Bronchitol

- Entering Phase III studies in Europe and USA
 - cystic fibrosis and bronchiectasis
- Orphan Drug designation for CF, bronchiectasis (U.S.)
- Orphan Drug designation for CF (Europe)

Management



Alan Robertson PhD CEO Wellcome (GSK); Faulding; Amrad; Inventor of Zomig



David McGarvey CA CFO
CFO, Memtec (NYSE);
CFO, US Filter Filtration Group



Brett Charlton, PhD, MBBS CMO Stanford; ANU



Gary Phillips, MBA CCO
CEO, Novartis Australia



John Crapper, MBA COO Managing Director, Memcor; Syntex (Roche)



William Cowden, PhD CSO

ANU; Co-inventor of TNF mAb's



Ian McDonald, PhD CTO

VP Discovery, SIBIA (Merck);

VP Discovery, SGX

AridolTM



A rapid and simple test for airways inflammation that facilitates diagnosis and management of asthma and COPD patients.

Asthma and COPD Opportunity

Asthma



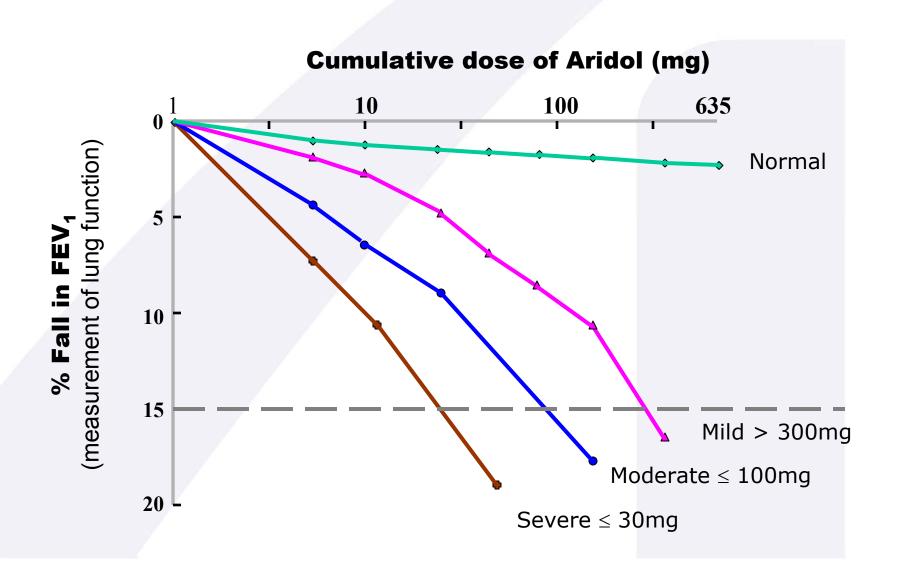
- 51mm patients in 7 major markets
- No simple test
- ~34% of people diagnosed with asthma do not have the disease
- Ongoing patient management difficult

Chronic Obstructive Pulmonary Disease



- 30 million people affected in 7 major pharmaceutical markets
- Cost to US healthcare US\$30 billion pa
- 20-25% respond to inhaled steroids but no test to identify them

Measurement of airway hyper-responsiveness



Current regulatory status





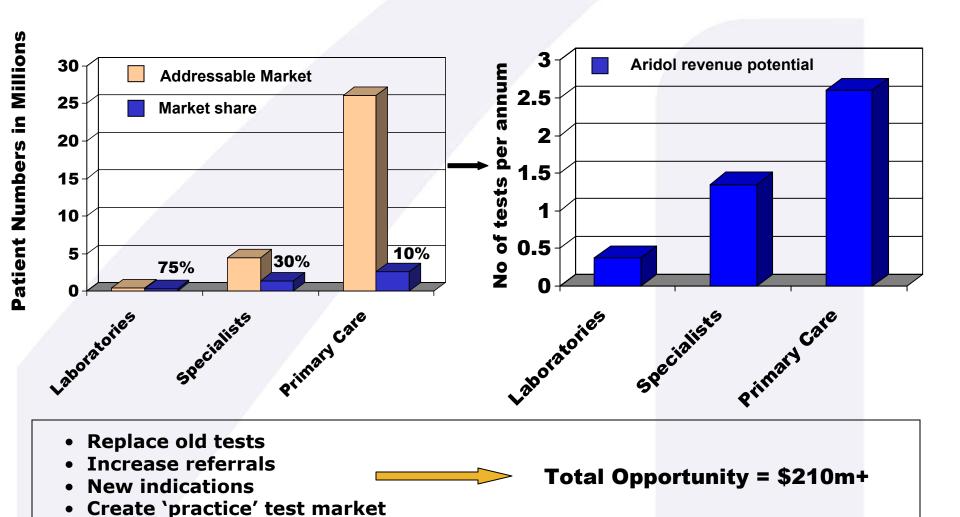


- Phase III results (646 patient study)
 - Effective at identifying clinical mis-diagnosis (7%)
 - 20% of subjects over treated and over diagnosed
 - 25% of subjects not well controlled
- European marketing authorization submitted
 - Anticipated approval 1H 2006
- Australian marketing authorization submitted
 - Positive ADEC opinion received
 - Anticipated approval 1Q 2006
- US Phase III trial commenced
 - Scheduled completion mid 2006
 - Subjects enrolled at March 15: 103/280

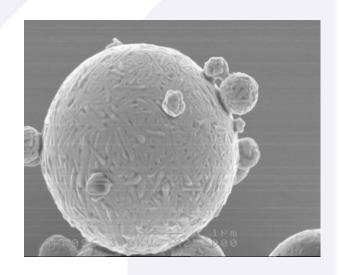
Marketing plans - Australia

- Build Marketing and Sales Force:
 - Recruit and train sales team
 - Market research completed
- Prepare Promotional Materials
 - Aridol a global brand with consistent promotional claims
- Market Introduction
 - Respiratory laboratories
 - Respiratory specialists Aridol to be included in Hospital Formulary
 - Primary Care Physicians
- Reimbursement is available under existing treatment code

Aridol opportunity by market segment







Mucus clearance:

Cystic fibrosis Chronic Obstructive Pulmonary Disease Bronchiectasis

cystic fibrosis



Background

- Genetic disorder affecting 75,000 worldwide (30,000 in U.S.)
- Poorly hydrated, tenacious, thick mucus
- Current life expectancy is 31 years



- Delivered by nebulizer (preparation, sterilization)
- rhDNase (pulmozyme): US\$265mm @ ~30% penetration
- Tobramycin: US\$233mm

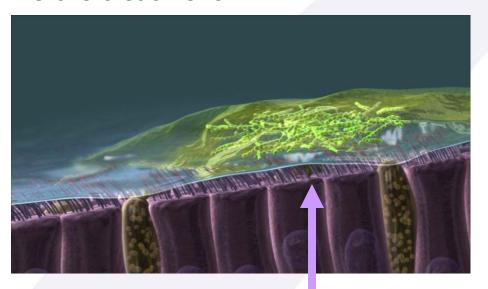




How Bronchitol works.....

Osmotic clearance of abnormal mucus

Before treatment

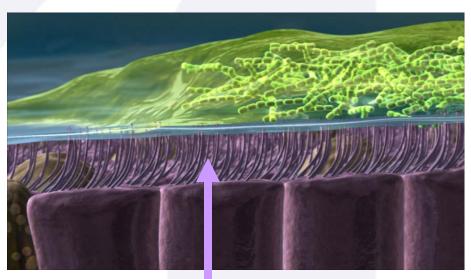


Lung surface dehydrated

Airway surface fluid layer impaired

Lung defense and hygiene compromised

After Bronchitol administration



Lung rehydrated

Airway surface liquid restored

Normal lung clearance

Phase II cystic fibrosis trial



- Crossover, 8 site study in 39 CF patients
- Randomised two week treatment periods
- Double-blind, placebo controlled



- Primary Endpoint:
 - Change in FEV₁
- Secondary Endpoints:
 - Effect on other lung function measures
 - Effect on symptoms/signs
 - Effect on QoL
 - Safety (including microbiology)



CF Phase II Results: Change in Lung Function

	Bronchitol*	Control*	p value
Change in FEV ₁	7 ± 2%	0 ± 2%	0.008
Change in FEF ₂₅₋₇₅	15.5 ± 5%	0.6 ± 5%	< 0.01

Includes patients being treated with pulmozyme FEF_{25-75} is a measure of small airway function

cystic fibrosis registration strategy



- •Phase III trial (EU & Aus):
 - Commence mid-2006
 - Primary endpoint: Same as Phase II (FEV₁)
- P
- Placebo-controlled, 6 month dosing, finalising design with EMEA
- •Phase III trial (US) to commence 2006
 - Similar size, design to EU/Aus trial
 - End of Phase II meeting held with FDA
 - Commence 2006
- Orphan drug designation EU and USA



bronchiectasis





- Abnormal, irreversible dilation of the lower airways
- Daily mucus production, constant coughing, breathlessness: major quality of life impact
- Normal lung clearance impaired
- 500,000 affected worldwide (100,000 in the U.S.)



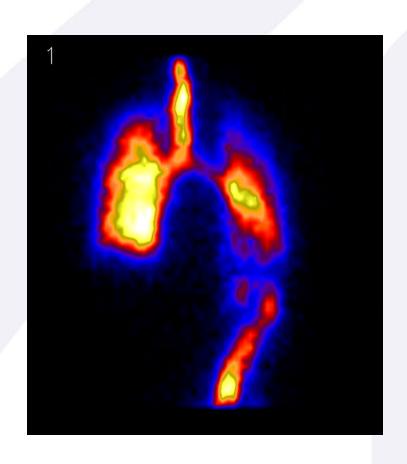
- Current treatments: bronchodilators, antibiotics
 - No drugs effective to clear mucus

bronchiectasis

- Phase II Trial results
 - 60 patient, double-blind, crossover, placebo-controlled
 - All patients 4.5 unit improvement in QOL impact score
 - Patients with unclear chests 6.9 unit improvement in QOL impact score
 - Well tolerated, no adverse events
- Phase III Trials
 - To commence 1Q06 in Australia, EU
 - Initiate US pivotal trial mid-2006
- Supplied on compassionate-use basis in Australia

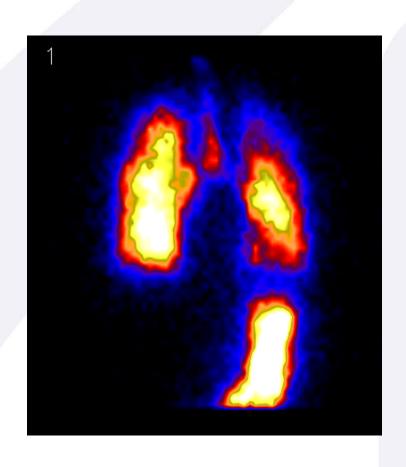
Bronchitol in the clinic......

Chronic bronchitis – without bronchitol



Bronchitol in the clinic......

Chronic bronchitis – with 400 mg bronchitol

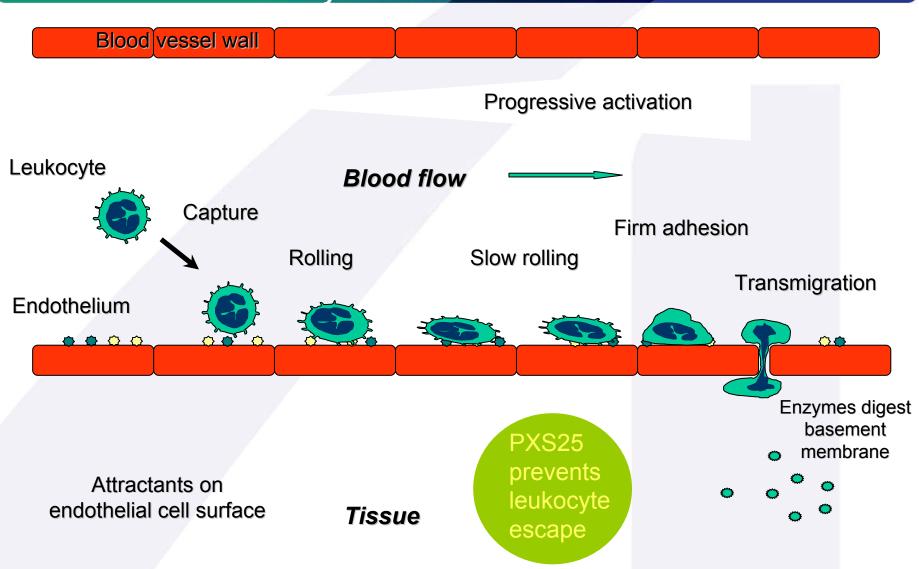


Autoimmune diseases

multiple sclerosis rheumatoid arthritis

Autoimmune Disease

Inflammation: the leukocyte activation cascade



Autoimmune Disease

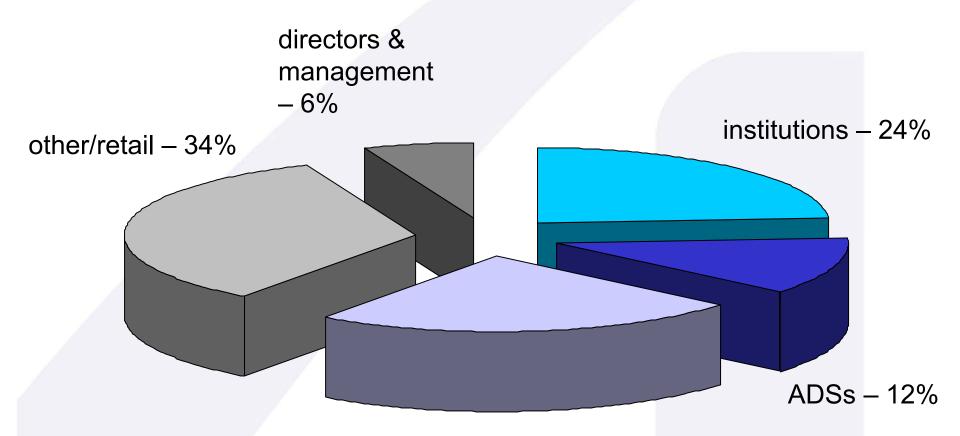
PXS64

- Selective inhibitor of T cell migration
- Novel mechanism
- Effective in animal models of multiple sclerosis
- Oral prodrug of PXS25
- Current status: preclinical development, start human
 Phase I clinical trials 1H06

Financials

Share Capital

(including options)



founders and VC's – 24%

31 December 2005: 174m shares; 12m options

Market Cap: \$380m

Volume (ASX/Nasdaq): 250k

Australian GAAP

Unaudited - A\$'000 (except per share data) A\$ ~ US\$ 0.75

Balance Sheet Data	As	at
	31-Dec-05	30-Jun-05
Cash and cash equivalents	106,434	33,389
Plant & equipment	2,950	2,477
Intangible assets	1,077	1,106
Total assets	111,875	37,937
Total liabilities	2,969	2,470
Total shareholders' equity	108,906	35,467

Income Statement	Half year ended	
	31-Dec-05	31-Dec-04
	YTD '06	YTD '05
Revenue		
Interest	1,436	711
Grant income	430	490
	1,866	1,201
Expenses		
Research & development	(5,646)	(4,279)
Commercial	(603)	(320)
Administration	(2,182)	(1,596)
Total expenses	(8,431)	(6,195)
Net loss before and after tax	(6,565)	(4,994)
Basic and diluted loss per share	(0.045)	(0.044)

US GAAP

Unaudited - A\$'000 (except per share data) A\$ ~ US\$ 0.75

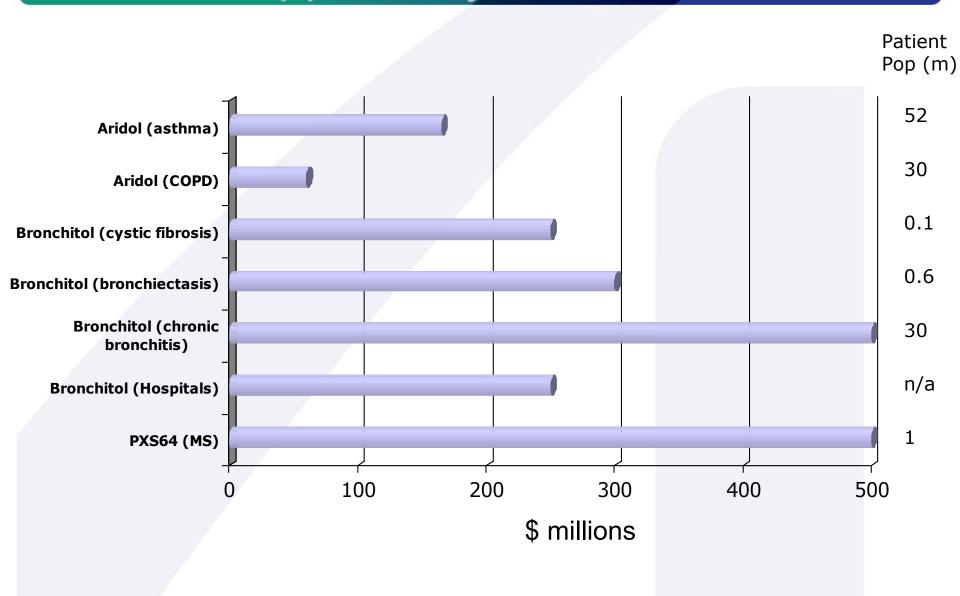
Balance Sheet Data	As of	
	Dec-31-05	Jun-30-05
Cash and cash equivalents	106,434	33,268
Plant & equipment	2,873	2,376
Intangible assets	1,077	1,106
Total assets	111,797	37,836
Total liabilities	2,891	2,369
Total shareholders' equity	108,906	35,467

Statement of Operations Six months of Six mo		onths ended
	Dec-31-0	05 Dec-31-04
Revenue	-	-
Operating expenses		
Research & development	4,96	3,711
Commercial	53	320
General and administrative	2,04	1,535
Amortization of intangible assets	4	45
Fair value of stock options issued to employees	40	94
Total operating expenses	8,00	5,705
Loss from operations	(8,00	(5,705)
Interest and other income	1,43	36 711
Net loss	(6,56	35) (4,994)
Basic and diluted net loss per ADS	(0.04	(0.044)

Statement of Operations Profile

- Revenue
- Gross Margin
 - Healthy
 - Low direct material and labour
 - Modest capital cost
 - Capacity utilization/volume
- Selling Costs
 - Centrally managed patient populations
 - Small/focussed sales teams
- Cash Burn
 - 50+ employees
 - Core burn (salaries, rent, fixed costs etc)
 - Plus clinical, preclinical
 - Cash funds sufficient for international approval and launch Aridol and Bronchitol (CF and BCS), and facility expansion

Revenue Opportunity.....



Statement of Operations Profile

- Revenue
- Gross Margin
 - Healthy
 - Low direct material (commodities) and labour
 - Modest capital cost
 - Capacity utilization/volume
- Selling Costs
 - Centrally managed patient populations
 - Small/focussed sales teams
- Cash Burn
 - 50+ employees
 - Core burn (salaries, rent, fixed costs etc)
 - Plus clinical, preclinical, market launch
 - Cash funds sufficient for international approval and launch Aridol and Bronchitol (CF and BCS), and facility expansion

Significant Milestones ahead

Milestone	1Q-06	2Q-06	3Q-06	4Q-06
Aridol				
Approval – Aus			/	
Approval – EU	1			
Launch – Aus	7			
Launch EU	37			
COPD clinical data	-			
Ph III US clinical data				
Bronchitol - cystic fibrosis				
Dosing study data				
Commence PIII trial				
Pulmozyme trial enrolled				
Bronchitol – bronchiectasis				
Commence Ph III trial				
Dyanahital ahyania hyanahitia				
Bronchitol – chronic bronchitis				
Commence Ph II trial				
PXS64				
Complete preclinical studies				