pharmaxis

Therapeutic products for respiratory diseases

June 2010

Forward Looking Statements

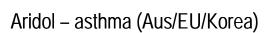
This presentation may contain forward-looking statements that are based on management's current expectations and beliefs and are subject to a number of factors and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. The forward-looking statements contained in this presentation include statements about future financial and operating results, results of our clinical trials, status of our regulatory submissions, possible or assumed future growth opportunities and risks and uncertainties that could affect Pharmaxis' product and products under development. These statements are not guarantees of future performance, involve certain risks, uncertainties and assumptions that are difficult to predict, and are based upon assumptions as to future events that may not prove accurate. Therefore, actual outcomes and results may differ materially from what is expressed herein. In any forward-looking statement in which Pharmaxis expresses an expectation or belief as to future results, such expectation or belief is expressed in good faith and believed to have a reasonable basis, but there can be no assurance that the statement or expectation or belief will result or be achieved or accomplished.

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Company Overview

Objective	The development of products for respiratory and inflammatory diseases			
Lead products	Aridol: management of asthma and COPD			
	Bronchitol: therapeutic for cystic fibrosis and COPD			
	ASM8: therapeutic for asthma			
Discovery	PXS25 (M6P receptor blocker); PXS4206 (VAP1 inhibitor)			
Listing	ASX (Nov 2003): PXS			
Locations	Sydney, Australia • Exton, USA • Slough, UK • Montreal, Canada			
Facility	GMP Manufacture of lead products			
Employees	135			
Cash (31/3/10)	A\$96 million			
Shares & Options	Shares outstanding: 225m; Options outstanding: 13m			
Key patents	Bronchitol & Aridol granted in USA, Australia, Asia, Canada, Japan; pending in EU, Japan.			
Analyst coverage	CREDIT SUISSE KRBS Morgans KRBS Morgans KRBS Morgans			

Development Pipeline



Aridol – asthma (US)

Bronchitol – cystic fibrosis (EU/Aust)

Bronchitol – cystic fibrosis (US)

Bronchitol – bronchiectasis (US/EU)

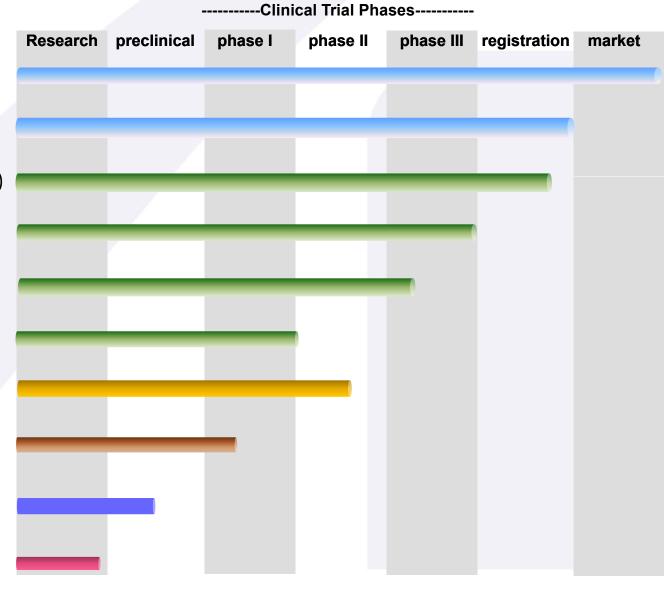
Bronchitol – ventilated patients

ASM8 - asthma

PXS25 – lung fibrosis

PXS4206 – lung disease

PXS TPI1100 - COPD

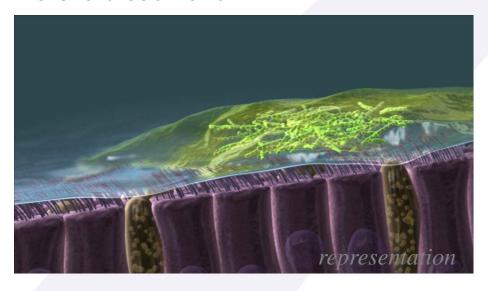


Bronchitol for Cystic Fibrosis



Osmotic clearance of abnormal mucus

Before treatment

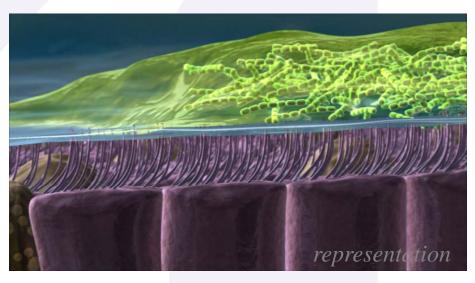


Lung surface dehydrated

Airway surface fluid layer impaired

Lung defense and hygiene compromised

After Bronchitol administration



Lung hydrated

Airway surface liquid restored

Normal lung clearance

Bronchitol – cystic fibrosis



Background

- Genetic disorder affecting 75,000 worldwide (30,000 in US)
- Poorly hydrated, tenacious, thick mucus
- Current life expectancy is 37 years (US)



Current treatments: rhDNase and tobramycin

- Delivered by nebulizer (preparation, sterilization)
- rhDNase (Pulmozyme®): global sales US\$460mm (2009)
- Tobramycin (Tobi[®]): global sales US\$233mm (2007)



Bronchitol – cystic fibrosis clinical program

2 Pivotal Phase III trials - same design

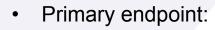


Approx 300 subjects greater than 6 years old

Multicentre, double blind, placebo controlled



• 6 month treatment, 400mg twice per day followed by 6 month open



lung function (FEV₁)



- Secondary endpoints:
 - Other Lung Function measures
 - Lung function (FEV₁) in patients on rhDNase
 - exacerbations
 - antibiotic use
 - QOL and safety



Cystic Fibrosis Trial Demographics

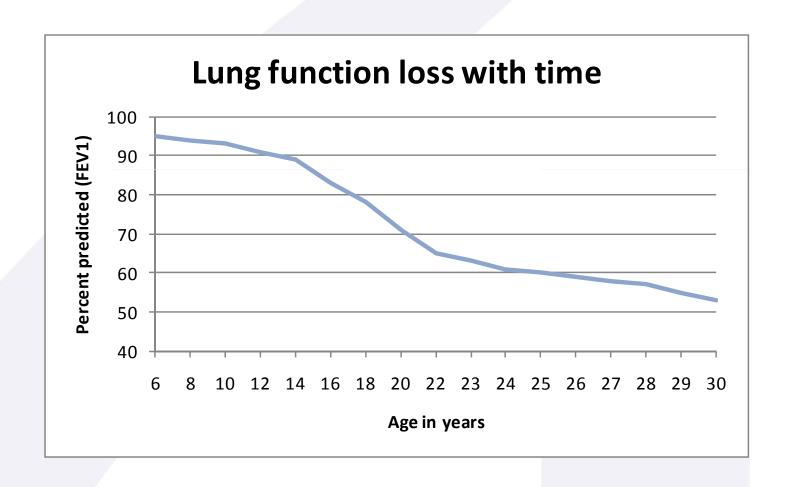






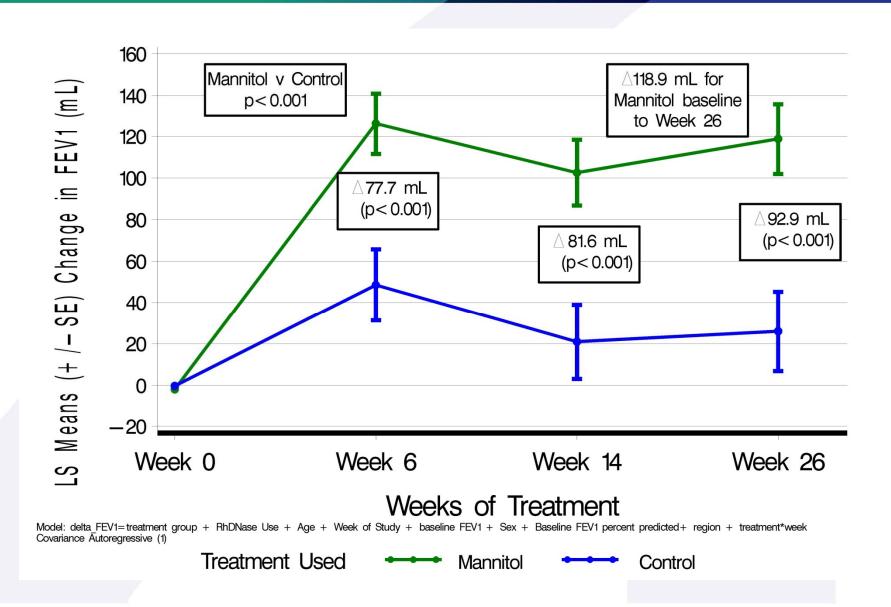
Criteria	CF301	CF302
Patients failing mannitol tolerance test	7%	7%
Patients randomised	324	318
Received treatment	295	305
Withdrawal rate	33%	14.8%
Average age	23	20
Age range	6 - 56	6 - 53
Mean predicted FEV ₁ on entry	62%	65%
Predicted FEV ₁ range	26% - 94%	34% - 96%
% patients on dornase alfa	55%	75.1%

Average lung function decline in CF patients

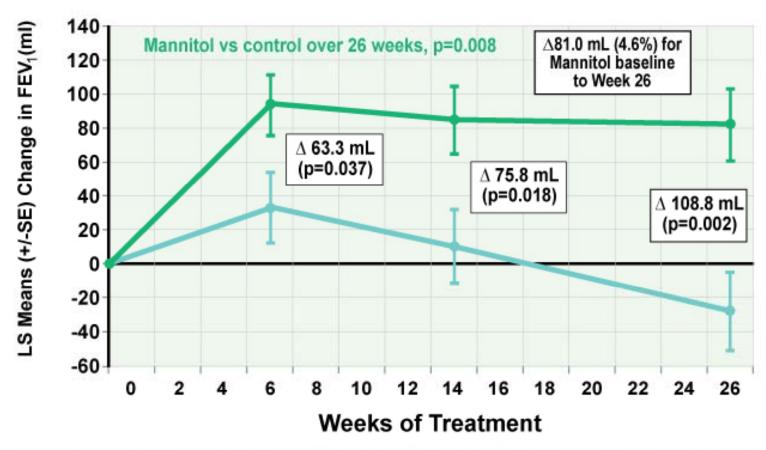


Source: Cystic Fibrosis Foundation Patient registry, 2004

CF-301 Absolute mean change (mL) in FEV₁



CF301 FEV1 mean change (mL) in rhDNase patients

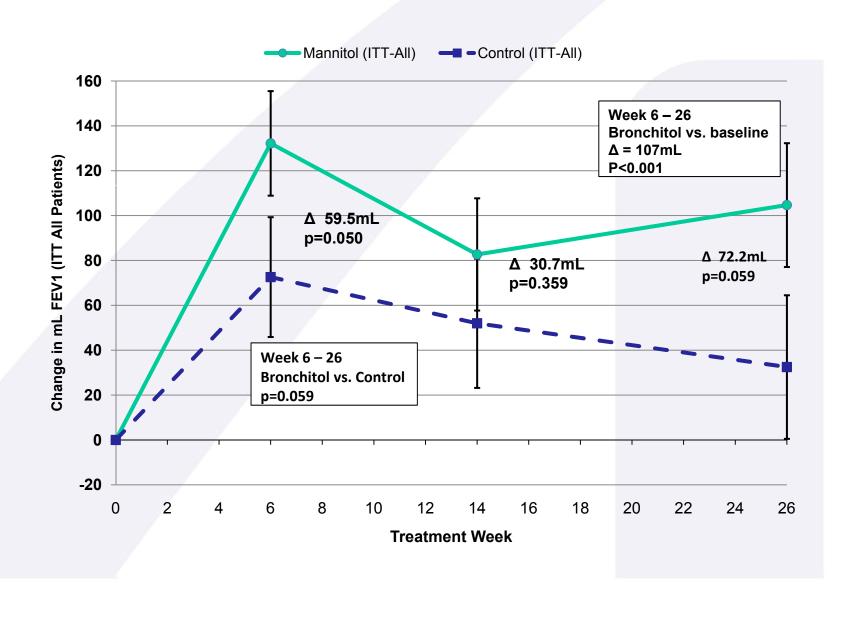


Model: delta_FEV₁=treatment group + RhDNase Use + Age + Week of Study + baseline FEV₁ + Sex + Baseline FEV₁ percent predicted + region + RhDNase use "treatment" week Covariance Autoregressive (1)

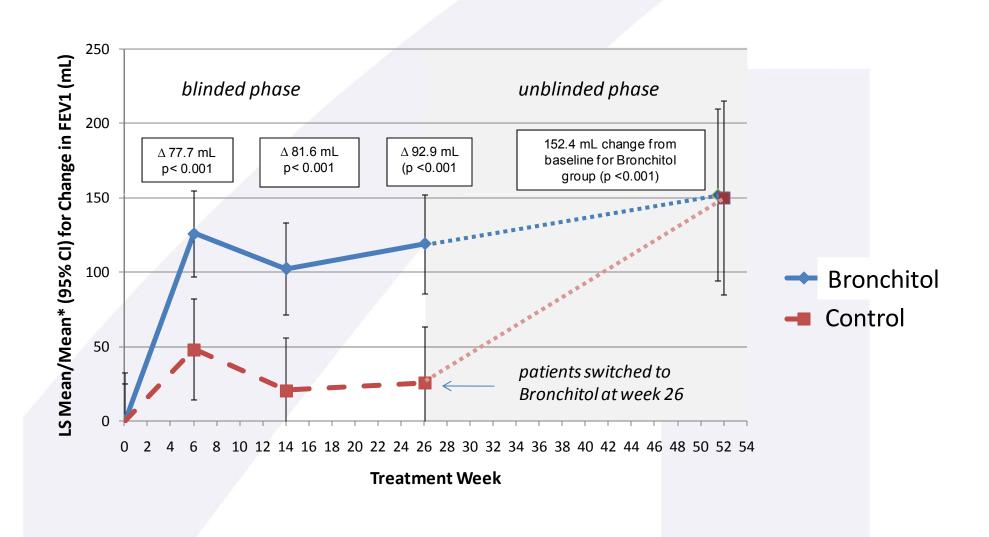
Treatment Used Mannitol Control

DPM-CF-301

CF-302 Absolute mean change (mL) in FEV₁

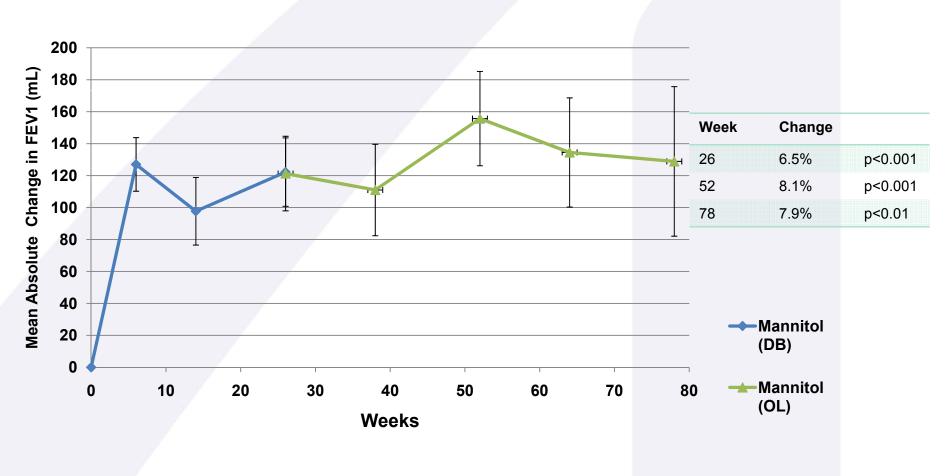


CF301 – lung function changes at 12 months



CF301 Bronchitol Arm (DB and OL for 18 months)



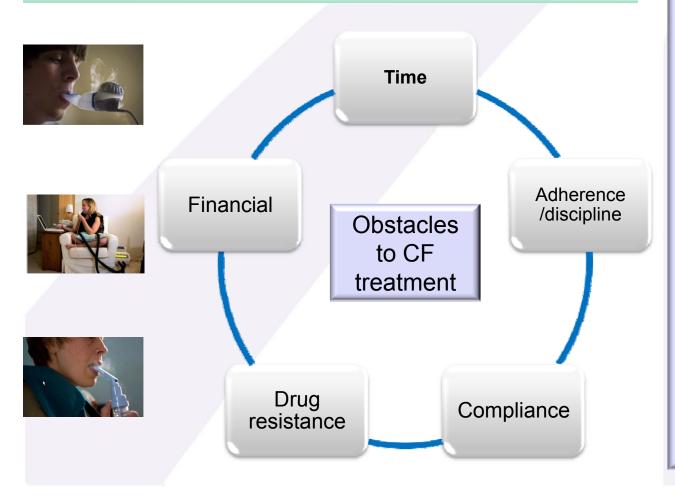


CF302 – Summary

- Primary endpoint of lung function (FEV₁) improvement compared to control measured in mLs - narrowly missed statistical significance (p=0.059)
- Lung function (FEV₁) improvement compared to control expressed as percentage - similar to CF301 and statistically significant (p=0.029)
- Lung function improvement of 8.2% over baseline exceeds improvement demonstrated in CF301
- Early and sustained lung function improvement over baseline as seen in CF301
- Secondary endpoints analysed to-date positive and consistent with CF301
- Safety well-tolerated as in CF301, supportive of EU MAA
- Compelling body of evidence ready to discuss with the FDA

Cystic Fibrosis market research

The time commitment to treatment is the biggest challenge to physicians and patients



- •Time requirements and adherence to therapy are pervasive challenges
- "the treatments take time. Although the payback is longevity and QOL, at the moment the treatments can take up a large part of the day."
- "patients feel very pressed for time."
- "Because of the time requirement, you have to prioritise meds sometimes. Do the biggest bang for the commitment buck."
- "The time element is the key to adherence."
- "Therapy gets in the way of daily activities 50 minutes two times a day!"
- Treating resistance to antibiotics is another challenge for physicians

Source: Willowdale market research

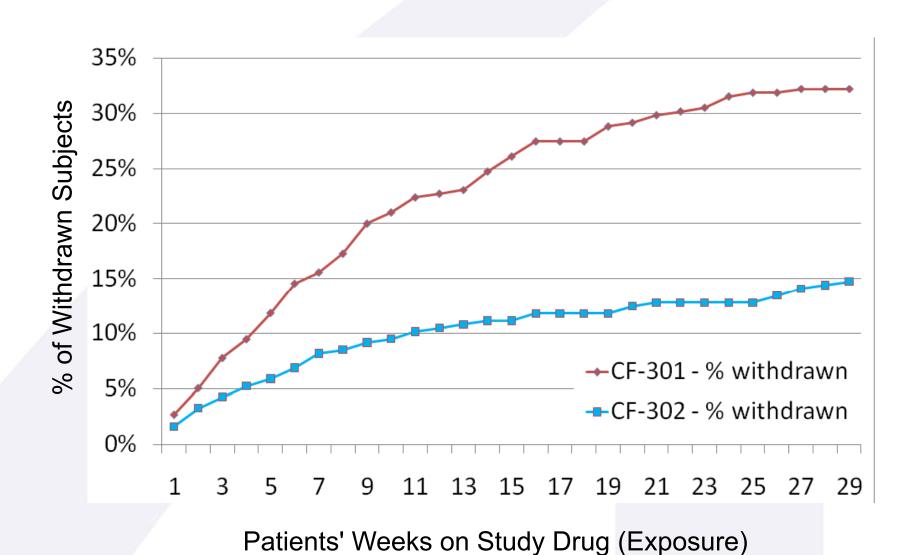
Bronchitol Delivery



- Treatment burden a higher concern to many families than reduced life expectancy
- Twice a day dosing
- 2 5 minutes delivery time
- Convenient and portable
- Does not rely on a power source
- No cleaning / maintenance/ sterilisation required



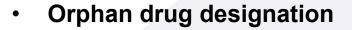
CF-301 vs. CF-302 withdrawals of dosed subjects during blinded phase



Bronchitol – cystic fibrosis registration

Europe





Headline data
 May 2009

• EMA submission Oct 2009

EMA response anticipated
 Q4 2010



USA

Orphan drug designation

Headline data June 2010

FDA pre NDA meeting Q3 2010



Bronchitol – commercialisation in EU

- Orphan drug up to 12 years exclusivity
- Promotion by PXS in Western Europe (14 countries)
- Distributor for Central / Eastern Europe
- Centralised approach to pricing
 - Core pricing dossier Q3 2010
 - Market access staff Q3 2010
- First launch UK / Germany Q1 2011

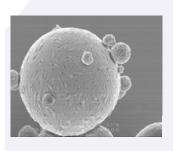


27,000 people with CF in top 5 EU countries

Bronchitol - bronchiectasis







- Abnormal, irreversible dilation of the lower airways
- Daily mucus production, constant coughing, breathlessness, recurrent acute bronchitis with infective exacerbations: low quality of life
- In 30-50% of cases, the cause is unknown
- Normal lung clearance impaired
- Current treatments: bronchodilators, antibiotics
- No drugs proven effective to clear mucus
- Affects 600,000 people worldwide

Bronchitol – bronchiectasis registration

1st Pivotal Phase III trial



• 363 patient, placebo controlled, double blind, randomised 12 week treatment (twice per day) + 12 month open label extension

Primary endpoints

- quality of life validated Patient Reported Outcome
- mucus clearance 24hr sputum volume



Primary Analysis

•	quality of Life	SGRQ,	p<0.001	versus baseline

SGRQ, p<0.05 versus placebo

• mucus clearance ↑30%, p<0.001 versus placebo

antibiotic use reduction p<0.05 versus placebo

adverse events (52 wks) cough 9%, sore throat 5%

no SAE attributed to treatment



Bronchitol – bronchiectasis registration

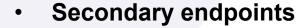


2nd Phase III trial

- ~400 patient, placebo controlled, double blind, randomised, 52 week treatment
- 400mg twice a day



Reduction in number of exacerbations



- Exercise, mucus clearance, antibiotic use
- Quality of life

Status

- Special Protocol Assessment concluded with U.S. FDA
- Orphan Drug designation
- First patient enrollment
 October 2009

USA

• Data 2011





Aridol™

- Identifies airway reactivity (active airway inflammation) which helps physicians in the diagnosis and management of asthma
- An easy-to-use test kit provides rapid results and doesn't require specialized equipment



International regulatory status - Aridol



Europe

Approved European Union (MRP)

May 2007

Staggered launch through distributors

Launched in major EU countries except Germany



South Korea

Approved for marketing
 Jan 2008

Pricing approval completed
 Sep 2009

• Launched Oct 2009

USA

NDA under review

Positive recommendation by FDA Advisory Committee Nov 2009

Response Letter received
 Dec 2009

Process expected to conclude 2H 2010

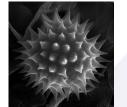


Sales for 9 months to 31 March - \$0.64 million

ASM8: A new approach for uncontrolled asthma



- Targeting severe asthma
 - affects ~6 million people
 - major cause of ER visits
 - limited treatment options
- · Once daily by inhalation



- Improved side effect profile
 - Low systemic exposure
- Improved effectiveness
 - Targets multiple inflammatory proteins
- · Inhibits protein synthesis



Combined in one product

Topical
Delivery
Direct to site of action



Multi-Target Knockdown Blocking multiple pathways





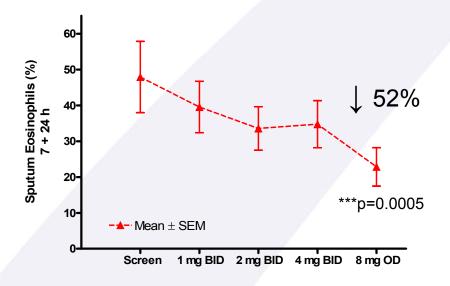
There exists an unmet medical need in patients with severe asthma

ASM8: Clinical studies completed

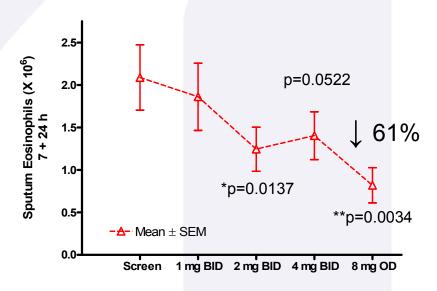
Phase 1 Safety	Phase 2a Allergen Challenge (4-day study)	Phase 2a Allergen Challenge (14-day study)	Phase 2a Dose Profiling
Single ascending dose comparison TPI ASM8 versus placebo (up to 6 mg)	Placebo-controlled, 4- day cross-over study (1.5 mg* Aerogen neb)	Placebo-controlled, 14- day cross-over study (1 mg* Respironics neb)	Ascending dose 1mg bd, 2mg bd, 4mg bd and 8mg od for 4 days. Allergen challenge
10 healthy subjects per dose, 5 doses	17 subjects with mild allergic asthma	18 subjects with mild allergic asthma	12 subjects with mild allergic asthma
Primary objective: • Safety Secondary objective: • Pharmacokinetics	Co-primary objectives: • Late asthmatic resp • Safety Secondary objectives: • Early asthmatic resp • Inflammatory cells • Target mRNA • Pharmacokinetics	Same as 4-day study in Canada	Primary endpoint: • Sputum eosinophils • Safety Secondary objectives: • LAR • EAR • Target mRNA
	* Metered dose	* Metered dose	

ASM8: Sputum Eosinophils (sum of 7h and 24h)



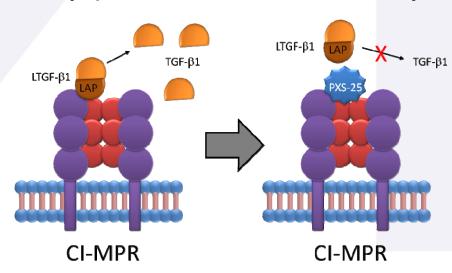


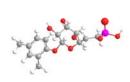
Absolute # Eosinophils



PXS 25 for fibrosis

- \Box Inhibits cleavage of latent TGF β to active TGF β
 - Targeting Idiopathic Pulmonary Fibrosis
 - > Affects >500,000 people worldwide
 - Small molecule with robust pharmaceutical profile
- Phase I trial completed
 - Safety, pharmacokinetics in healthy subjects









Manufacturing Capacity









- Current GMP facility
 - Manufactures Aridol for sale in EU, Asia & Australia
 - Manufacture Bronchitol for clinical trials
- New facility
 - Relocated May 2009
 - Equipment installation & validation complete
 - Complete process validation mid 2010
 - Capacity
 - Initial capacity 1 spray drier: 40,000 patients p.a.
 - Expanded capacity 2nd spray drier: 80,000 patients p.a.

Financial Statements

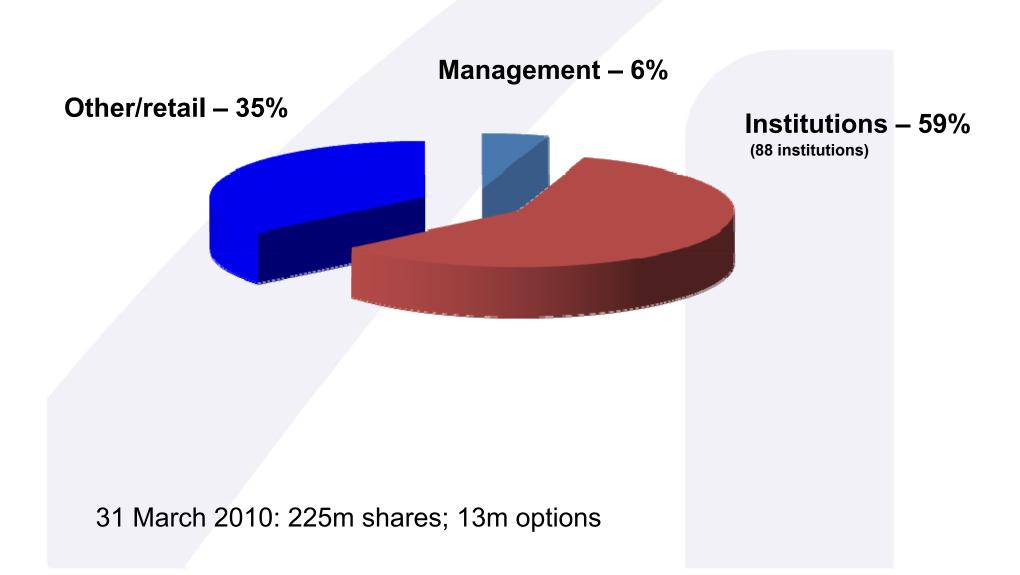
Financial Statement Data - Unaudited				
(International Financial Reporting Standards)				
('000 except per share data)				
Income Statement Data	Three mon	ths ended	Nine mon	ths ended
	31-Mar-10	31-Mar-09	31-Mar-10	31-Mar-09
	A\$	A\$	A\$	A\$
Revenue from sale of goods	282	144	636	453
Cost of sales	(125)	(35)	(232)	(113)
Gross profit	157	109	404	340
Interest	1,003	927	2,933	4,584
Other income	123	132	288	276
Expenses				
Research & development	(8,991)	(7,193)	(26,287)	(20,780)
Commercial	(1,261)	(1,449)	(3,725)	(4,339)
Administration	(4,631)	(1,336)	(8,165)	(4,258)
Finance expenses	(148)	-	(656)	-
Total expenses	(15,031)	(9,978)	(38,833)	(29,377)
Loss before income tax	(13,748)	(8,810)	(35,208)	(24,177)
Income tax expense	-	1	(42)	(27)
Loss for the period	(13,748)	(8,809)	(35,250)	(24,204)
Basic and diluted earnings (loss) per share - \$	(0.063)	(0.045)	(0.162)	(0.124)
Depreciation & amortisation	689	271	1,836	789
Fair value of options issued under employee plan	719	650	1,872	1,801

Financial Statements

Balance Sheet Data As at					
	31-Mar-10	30-Jun-09			
	A\$	A\$			
Cash and cash equivalents	95,904	124,993			
Property, plant & equipment	32,934	32,698			
Intangible assets	12,594	1,193			
Total assets	148,152	163,997			
Total liabilities	(28,821)	(26,306)			
Net assets	119,331	137,691			
Cash Flow Data	Three mon	Three months ended		Nine months ended	
	31-Mar-10	31-Mar-09	31-Mar-10	31-Mar-09	
	A\$	A\$	A\$	A\$	
Cash flows from operating activities	(11,554)	(4,515)	(31,898)	(16,343)	
Cash flows from investing activities	5,515	(3,655)	3,282	(9,742)	
Cash flows from financing activities	(181)	-	(492)	11	
Net increase (decrease) in cash held	(6,220)	(8,170)	(29,108)	(26,074)	

Share Capital

(including options)



pharmaxis **END**