

making good drugs better



SG Cowen

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**SkyePharma reports under UK GAAP**. Where US dollar equivalents have been provided for convenience in this presentation, a fixed exchange rate of \$1.84 = £1 has been used throughout. These dollar equivalent numbers do not imply restatement from UK GAAP to US GAAP.



# SkyePharma in brief

- UK-domiciled speciality pharmaceutical company
- ➤ originally founded 1983, IPO 1996
- ➤ listed London (SKP), New York (ADR, SKYE)
- market capitalisation £400/\$745 mn

(10 Mar: 65p/share \$12.50/ADR)



### Drug delivery – making good drugs better

### We normally work on drugs <u>already proven safe</u> <u>and effective</u>

- > low risk of clinical failure
- >short development times
- >low development cost

We rely on partners for sales and marketing



## Two business models

	Contract drug delivery project	Self-funded project			
	Example: Paxil CR <sup>™</sup>	Example: DepoMorphine <sup>™</sup>			
Risk	Low	Medium			
Nisk	LOW	NB much lower than for a NCE			
Return	Low	High			
Out-licence stage	Start of project	Late-stage clinical trials			
R&D costs	Partner (reimburses SkyePharma)	SkyePharma			
	\$5-10 mn	\$25-50 mn			
Milestone	Modest	High			
payments	<\$10 mn	\$50-100 mn			
Royalty rate	Low	High			
	3-7%	20-50%			



## A transforming business

Drug delivery service provider

Developing own products for out-licence

Integrated pharmaceutical developer

#### Nine approved products

FDA approvals validate three of our five delivery technologies Foradil<sup>®</sup> Certihaler<sup>™</sup> "approvable" letter (Oct '03) validates fourth (pulmonary)

#### Strong clinical pipeline

2 Filed, 4 x Phase III, 3 x Phase II

#### Changing quality of earnings:

Royalty income replacing milestones as main revenue source, driven by

Now: Paxil CR<sup>™</sup>, Xatral<sup>®</sup> OD/Uroxatral<sup>®</sup>, Solaraze<sup>®</sup>, DepoCyt<sup>®</sup>

Future: Foradil<sup>®</sup> Certihaler<sup>™</sup>, DepoMorphine<sup>™</sup>, HFA-formoterol, Propofol IDD-D<sup>™</sup>



## Global infrastructure





# Two lead marketed products

Paxil CR<sup>™</sup> (GlaxoSmithKline)

Xatral® OD / Uroxatral® (Sanofi-Synthélabo)



## Paxil CR<sup>™</sup>

# GlaxoSmithKline Class



Geomatrix<sup>™</sup> oral formulation of GSK's SSRI antidepressant Paxil<sup>®</sup> (paroxetine)

#### Paxil CR<sup>™</sup> is <u>clinically differentiated</u> from Paxil<sup>®</sup>

> reduced incidence of nausea leads to improved compliance, better efficacy

#### GSK has invested to develop <u>new indications</u> for Paxil CR<sup>™</sup>

➤ depression approved 1999

panic disorder approved 2001

> social anxiety disorder approved 2003

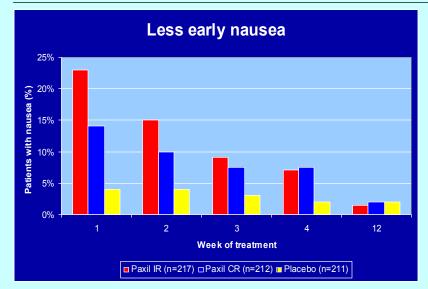
> PMDD (<u>Paxil<sup>®</sup> never approved for this indication</u>):

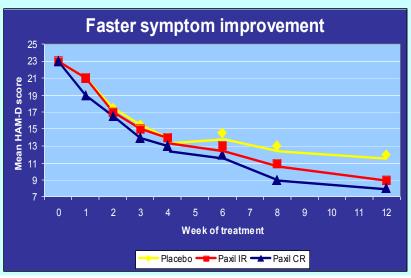
> continuous approved Sep '03

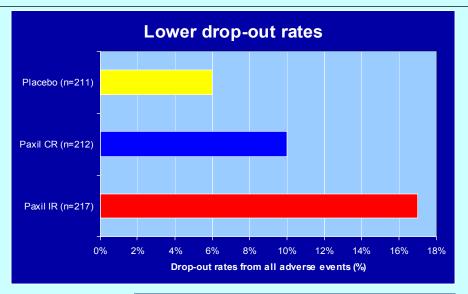
> intermittent approved Feb '04



# Paxil CR<sup>™</sup> – clinically differentiated







Source: Golden et al., J. Clin. Psych. (July 2002)

#### **Benefits confirmed in practice**

Database study examined 80,000 US patients in managed care treated for depression

Patients taking Paxil CR<sup>™</sup> were <u>28% less likely to</u> <u>discontinue therapy</u> than patients taking competing immediate-release SSRIs

Managed Care Interface (Dec 2003)



# Paxil CR<sup>™</sup> – defending the Paxil® franchise

#### Paxil CR has captured ~8% of the US SSRI antidepressant prescription market

- > first US generic competition for Paxil® started 8 September '03
  - > a prescription for Paxil CR<sup>™</sup> cannot be substituted with generic paroxetine...
  - >...but some indirect price pressure
  - ➤ GSK still actively promoting Paxil CR<sup>™</sup>

It is very important to keep the sales effort behind Paxil CR™ John Coombe (GSK's CFO) Feb 2004

GSK aggressively defending last patent for Paxil® (expires end-2006)

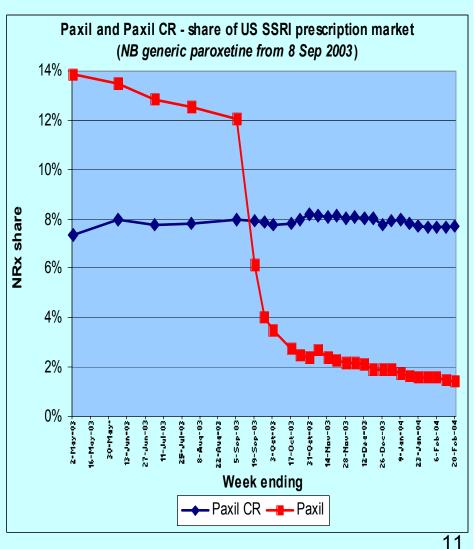
#### > Paxil® CR US sales:

> 2002: ~\$300 mn

> 2003: ~\$650 mn

> 2004: ~\$800 mn (est – likely peak)

- > SkyePharma royalty rate: low single digits
  - possible increase from start of US generic competition





## Xatral<sup>®</sup> OD/Uroxatral<sup>®</sup>

#### Sanofi-Synthélabo



Once-daily Geomatrix<sup>™</sup> formulation of alfusozin

- ➤ uroselective alpha-blocker
- > indication: urinary symptoms of BPH

#### On market in Europe & ROW since 2000

> replacing multidose versions

#### USA: Uroxatral®

- > new product on US market
- ➤ launch to urologists Nov '03
- > launch to primary care Mar '04
- > two USPs:
- uroselection (no postural hypotension)
- no ejaculatory side-effects

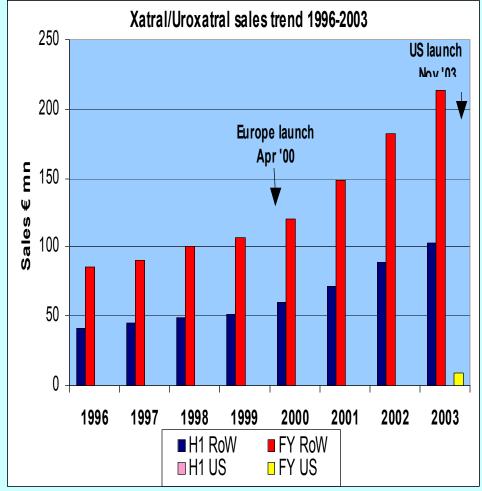
Second indication: acute urinary

retention (approved Europe; Ph III US)

2003 world sales €222 mn (+25% CER)

**2006 forecast**: €500 mn (*Sanofi-Synthélabo*)

SkyePharma royalty rate: mid-single digits





# Three key near-term pipeline products

DepoMorphine<sup>™</sup>
Foradil<sup>®</sup> Certihaler<sup>™</sup>
Propofol IDD-D<sup>™</sup>



# DepoMorphine™

Endo, SkyePharma



#### Sustained-release morphine for relief of pain after surgery

- > given as a single epidural injection before/during operation
- > morphine released evenly over 48 hours (period of peak post-op. pain)
  - > minimizes <u>breakthrough</u> pain
  - > with conventional PCA, patient must react to pain
- > no need for catheters and infusion pumps (= savings for hospital)

#### Disadvantages of <u>conventional morphine</u>

- effective analgesic but short-acting
- > repeat doses need a catheter and an infusion pump
- > catheter problems main barrier to wider use of epidural analgesia
- > epidural route desirable (delivers direct to brain, needs less morphine than IV)

#### Clinical trials (~1000 patients) highly statistically significant

➤ hip/knee surgery, lower abdominal surgery, caesarean section

US: filed with FDA Jul '03 (PDUFA date 18 May '04)

Europe: filed Nov '03 (UK, then mutual recognition procedure)



# DepoMorphine<sup>™</sup> - potential market

- knee replacements & revisions
- hip replacements & revisions
- major abdominal surgery
- >cesarean sections
- >thoracic
- vascular

- > ~12 million key target surgeries a year across the US and major Europe
- ➤ surgeries associated with an ageing population are **growing at 6-7% per annum**
- ➤ market research indicates potential for 25% - 40% patient share in major territories. Assumes pricing equivalent to IV PCA or epidural infusion (\$125 per surgical procedure)
- est. sales potential: \$250m
- exploring scope for premium pricing



# DepoMorphine<sup>™</sup> - Endo deal endorsed potential

#### \$120m deal (Dec '02)

- ➤ US/Canada rights for **DepoMorphine<sup>TM</sup>** and **Propofol IDD-D<sup>TM</sup>**
- > option on related pipeline products including **DepoBupivacaine**

#### **Deal terms**:

- > \$25 million upfront payment
- SkyePharma's share of sales <u>20-60%</u> on combined sales volume of DepoMorphine<sup>™</sup> and Propofol IDD-D<sup>™</sup>
  - >>50% share if combined sales >\$250 mn

#### Rights for rest of world still available for licence

➤ European rights to be licensed early '04





#### **Novartis / Schering Plough**



#### Active ingredient formoterol

- fast-onset, long-acting bronchodilator for asthma
- > recent major study on maintenance use of formoterol raises value
- SkyePharma developed both Certihaler<sup>™</sup> device and formulation
  - > formulation keeps powder dry, ensures accurate consistent dose
  - > now also being used in second collaboration with Novartis (QAB149)

Schering-Plough to market in key US market, Novartis elsewhere

Filed US & Europe Dec '02 (launches expected in H2 '04)

- > FDA "approvable" letter issued Oct '03
- first European approval (Switzerland) Feb '04

SkyePharma return on sales: ~10% (royalty + manufacturing return)



# Propofol IDD-D<sup>TM</sup> Endo, SkyePharma



- ➤ improved version of AstraZeneca's injectable anaesthetic *Diprivan*
- SkyePharma's formulation unique cannot support microbial growth
  - > no need for a preservative
  - > 2% emulsion (= lower injection volume and less lipid)
  - > not a generic
- designed for continuous uninterrupted 24-hour sedation
  - > ICU sedation is fastest-growing segment of *Diprivan* market
- ➤ Ph III to start Q1'04; target filing: 2005; target launch: 2006
- North America: Endo (same terms as DepoMorphine<sup>™</sup>)
- Europe/Japan: licensees to be appointed
- >est. sales potential for Propofol IDD-D™: \$200 mn



## Other major pipeline products

#### **HFA-formoterol** (SkyePharma)

Fast onset, long-acting bronchodilator in HFA metered-dose inhaler (HFA-MDI)

Value enhanced by recent major study on maintenance use of formoterol

Ph II trial complete – Ph III to commence 2004

Filing end 2005; launch 2006/7

#### Pulmicort® HFA-MDI (AstraZeneca for Europe)

Pulmicort® (budesonide) inhaled steroid (for asthma)

Ph II study complete - bioequivalent to CFC MDI

Ph III trial ongoing

Filing early 2005

#### DepoBupivacaine (SkyePharma)

Long-acting injectable formulation of local anaesthetic

Designed to provide 48-72 hours of local pain relief after out-patient surgery

Target indications: knee arthroscopy; laparoscopic surgery; plastic surgery

Ph I trial started in Europe Sep '03; Ph II to start mid-2004

#### Requip® (GlaxoSmithKline)

Once-daily oral formulation of ropinirole (for Parkinson's disease)

Therapeutic benefits + improved compliance

SkyePharma managing clinical studies for GSK

Ph III started Jun '03

Filing 2005



## 2003 - new corporate developments

- ➤ licensing agreement signed with **King** for **Altace**® (ramipril)
  - > leading branded ACE inhibitor with US\$527 mn sales in 2003
- > option agreement with unnamed partner in pulmonary area
- > agreement with Critical Therapeutics to develop zileuton for asthma/COPD
  - > once-daily version previously developed for Abbott
  - > completed Phase III for asthma but never filed
- agreement with Novartis to co-develop QAB149
  - > ultra-long acting bronchodilator for asthma/COPD
- > agreement with GlaxoSmithKline to use pulmonary formulation technology
- > Astralis commenced US Phase I clinical trial for Psoraxine<sup>™</sup> for psoriasis
- > strategic stake in **Micap** plc UK yeast technology specialist
  - > successfully completed IPO on AIM Aug '03
  - SkyePharma exercised option over pharma applications Feb '04
- > strategic stake in Vital Living Inc.
  - > development of pharmaceutical-grade nutriceuticals



# Well-stocked pipeline

					SkyePharma Client products			
licence or partner	product	feasibility	Ph.I	Ph.II	Ph.III	filed	approved	marketed
ORAL								
GlaxoSmithKline Sanofi-Synthelabo Roche Therabel Mundipharma Ratiopharm Watson GlaxoSmithKline Merck KGaA Critical Therapeutics Kowa Undisclosed	Paxil CR Xatral OD Madopar DR Coruno Nifedipine Diclofenac Dilacor XR Requip Undisclosed zileuton Statin NK-104 Undisclosed							
King	Altace							
PULMONARY								
Novartis SkyePharma AstraZeneca SkyePharma Novartis	Foradil Certihaler Formoterol HFA Pulmicort HFA Formoterol Combi QAB 149							
INJECTABLE								
Enzon/MundiPhama/Nippon S'yaku Endo / SkyePharma SkyePharma Astralis * GeneMedix SkyePharma Chugai	DepoCyt DepoMorphine DepoBupivacaine Psoraxine * Interferon alpha-2b HGH Undisclosed			* SkyePharma has an (	option on world rights for Psorax	ine $^{ extsf{TM}}$ , exercisable at the end $c$	f Phase II	
TOPICAL								
Quintiles/Shire SkyePharma Sakai	Solaraze Hyclinda Acyclovir							
SOLUBILISATION								
Endo / SkyePharma Undisclosed Baxter	Propofol IDD-D Fenofibrate Multiple							



## Newsflow 2003 – most targets met

#### **Filings**

DepoMorphine<sup>™</sup> US

 $\checkmark$ 

DepoMorphine<sup>™</sup> Europe

 $\checkmark$ 

Paxil® CR Social Anxiety - FDA approval 17 Oct

Paxil® CR PMDD intermittent

✓

(Paxil® CR PMDD continuous – FDA approval 2 Sep)

#### **Corporate & commercial agreements**

European licensing of DepoMorphine<sup>™</sup>

European licensing of Propofol IDD-D™

European licensing of DepoCyte®

**\** 

Licensing of Pulmonary products

Licensing of Dermatology products

Licensing deal with King – Altace<sup>®</sup> ✓

Micap floated on AIM

#### Product approvals/launches

Uroxatral® US

1

DepoCyte® Europe

Foradil<sup>®</sup> Certihaler<sup>™</sup> US

"approvable" 22 Oct

#### **Clinical trial progression**

Requip®

Ph III start ✓

Propofol IDD-D<sup>™</sup>

Ph II end ✓

Propofol IDD-D™

Ph III start

Pulmicort® HFA-MDI

Ph III start ✓

Psoraxine<sup>™</sup> (Astralis)

Ph I start ✓

#### Clinical data publications

DepoMorphine<sup>™</sup> Ph III

Foradil® DPI Ph III

Uroxatral® Ph III



## Newsflow 2004 – further progress

#### **Filings**

Pulmicort® HFA-MDI Europe Requip® OD Europe (US 2005)

#### Licence agreements

DepoMorphine<sup>™</sup> (Europe)
Pulmonary product package
Unnamed pipeline product

Dermatology products
Propofol IDD-D<sup>™</sup> (Europe)
DepoBupivacaine<sup>™</sup> (Europe)

#### Clinical data publications (by partners)

DepoMorphine<sup>™</sup> Ph III Foradil<sup>®</sup> Certihaler<sup>™</sup> Ph III Uroxatral<sup>®</sup> Ph III

#### Product approvals/launches

Paxil® CR PMDD intermittent US

DepoMorphine™ US

Launch of DepoCyte® Europe

Foradil® Certihaler™ US

#approvable" Oct '03

Foradil® Certihaler™ Europe

#### Clinical trial progression

Propofol IDD-D<sup>™</sup> Ph III start
Formoterol HFA-MDI Ph III start
Formoterol+fluticasone HFA-MDI Ph II/III start
Zileuton (Critical Therapeutics) Ph III start
(COPD)
Psoraxine<sup>™</sup> (Astralis) Ph II start
DepoBupivacaine<sup>™</sup> Ph II start



# Investment highlights

Evolved from a **technology** focus to a **product** development focus

Nine approved products validate drug delivery technologies

Changing quality of earnings driven by royalties from Paxil CR<sup>™</sup>, Xatral<sup>®</sup> OD/Uroxatral<sup>®</sup>, Solaraze<sup>™</sup>, DepoCyt<sup>®</sup>

- with Foradil<sup>®</sup> Certihaler<sup>™</sup>, DepoMorphine<sup>™</sup>, HFA-formoterol & Propofol IDD-D<sup>™</sup> close behind

Strong near-term clinical pipeline

2 Filed, 4 x Phase III, 3 x Phase II

Royalty growth to drive move to sustained and rising profitability



## making good drugs better

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