



2017 INTERIM RESULTS

Denise Scots-Knight – CEO
Richard Jones – CFO

8th August 2017



DISCLAIMER

The distribution of this presentation in certain jurisdictions may be restricted by law, and persons into whose possession this presentation comes should inform themselves about, and observe, any such restrictions. Although reasonable care has been taken to ensure that the facts stated in this presentation are accurate and that the opinions expressed are fair and reasonable, the contents of this presentation have not been verified by Mereo BioPharma Group plc (the “Company”) or any other person. Accordingly no representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information and opinions contained in this presentation and no reliance should be placed on such information or opinions. None of the Company, or any of its respective members, directors, officers or employees nor any other person accepts any liability whatsoever for any loss howsoever arising from any use of such information or opinions or otherwise arising in connection with this presentation. No part of this presentation, or the fact of its distribution, should form the basis of or be relied upon in connection with any contract or commitment or investment decision whatsoever. This presentation does not form part of any offer of securities, or constitute a solicitation of any offer to purchase or subscribe for securities or an inducement to enter into any investment activity.

Recipients of this presentation are not to construe its contents, or any prior or subsequent communications from or with the Company or its representatives as investment, legal or tax advice. In addition, this presentation does not purport to be all-inclusive or to contain all of the information that may be required to make a full analysis of any transaction. Further, the information in this presentation is not complete and may be changed. Recipients of this presentation should each make their own independent evaluation of the information and of the relevance and adequacy of the information in this document and should make such other investigations as they deem necessary.

Safe Harbour statement: this presentation may contain forward-looking statements that reflect the Company's current views and expectations regarding future events. In particular certain statements with regard to management's strategic vision, aims and objectives, the conduct of clinical trials, the filing dates for product licence applications and the anticipated launch of specified products in various markets, the Company's ability to find partners for the development and commercialisation of its products as well as the terms for such partnerships, anticipated levels of demand for existing products and products in development, the effect of competition, anticipated efficiencies, trends in results of operations, margins, the overall pharmaceutical market and exchange rates, are all forward looking in nature.

Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those expressed or implied by the forward looking statements. Although not exhaustive, the following factors could cause actual results to differ materially from those the Company expects: difficulties inherent in the discovery and development of new products and the design and implementation of pre-clinical and clinical studies, trials and investigations, delays in and results from such studies, trials and investigations that are inconsistent with previous results and the Company's expectations, the failure to obtain and maintain required regulatory approvals, product and pricing initiatives by the Company's competitors, inability of the Company to market new products effectively and the failure of the Company to agree beneficial terms with potential partners for any of its products or the failure of the Company's existing partners to perform their obligations, the ability of the Company to obtain additional financing for its operations and the market conditions affecting the availability and terms of such financing. By participating in this presentation and/or accepting any copies hereof you agree to be bound by the foregoing restrictions and the other terms of this disclaimer.



OVERVIEW

III



OPERATIONAL HIGHLIGHTS



BPS-804

- Accepted onto the Adaptive Pathway in Europe
- Initiated ASTEROID Phase 2b adult study in US and Europe
- Paediatric study to commence end of 2017



BGS-649

- Completion of enrolment of 268 patients in Phase 2b study due shortly
- Interim DMC review – all three dosing arms continuing
- Six month safety extension study recruiting well



ACUMAPIMOD

- Completed enrolment of 282 patients into Phase 2 study
- Top-line data expected in Q4 2017

- IP strengthened across all three programmes
- Significant number of potential new products reviewed
- Team strengthened – current headcount at 28

FINANCIAL HIGHLIGHTS

Total financing raised since launch

£126 million*

- £15m (gross) placing completed in April 2017
- £20m debt facility agreed on 7th August 2017, £10m to be drawn imminently

**(gross including debt facility)*

Novartis convertible debt reduced by
£1.4 million in the period to

£2.3 million

Cash and cash equivalents
At 30th June 2017:

£56.6 million*

**includes short term investments*

R&D spend in H1 2017

£21.4 million

(£20.8m on non-GAAP adjusted basis)

G&A spend in H1 2017

£5.0 million

(£3.0m on non-GAAP adjusted basis)

**Strong cash runway-funded beyond
the three key clinical milestones in
2017 and 2018**





BPS-804

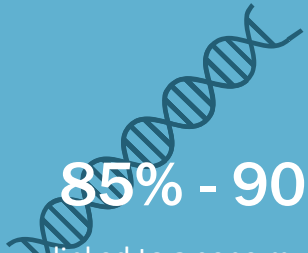
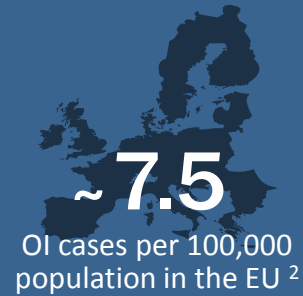
III



OSTEOGENESIS IMPERFECTA (OI)

An orphan genetic chronic bone disorder characterised by fragile bones that break easily

Prevalence:



85% - 90%
linked to a gene mutation
that produces abnormal type
1 collagen ^{1,2}



OI types I, III and IV occur in
72% - 77%
of total OI population¹

Symptoms:

- Frequent bone fractures and loose joints
- Early hearing loss
- Respiratory problems
- Brittle teeth

**No approved therapies to
reduce fractures in OI patients**

**Pricing analysis indicates \$60-90k per year
potential treatment cost**

1) Based on Osteogenesis Imperfecta Foundation estimates

2) Based on Orphanet estimates

BPS-804 CLINICAL DEVELOPMENT

Estimated enrolment:

120

OI Patients

Types I, III and IV

Trial arms:

Three different monthly dosing regimens of BPS-804

Vs

Placebo
Randomised

Study duration:

52

Weeks



Analysis at
26 and 52 weeks

Study start:

Q2 2017

Expected
top line 6 months
data :
Mid 2018

Primary endpoints

Compare effects on trabecular volumetric BMD by HRpQCT at 6 months

Secondary endpoints

- Effects on trabecular volumetric BMD by HRpQCT at 12 months
- Change in all HRpQCT parameters
- Effects on bone biomarkers
- PK
- Effects on PRO and quality of life

BPS-804 REGULATORY UPDATE

Orphan drug status

EU and US

Admitted to the Adaptive Pathways in the EU

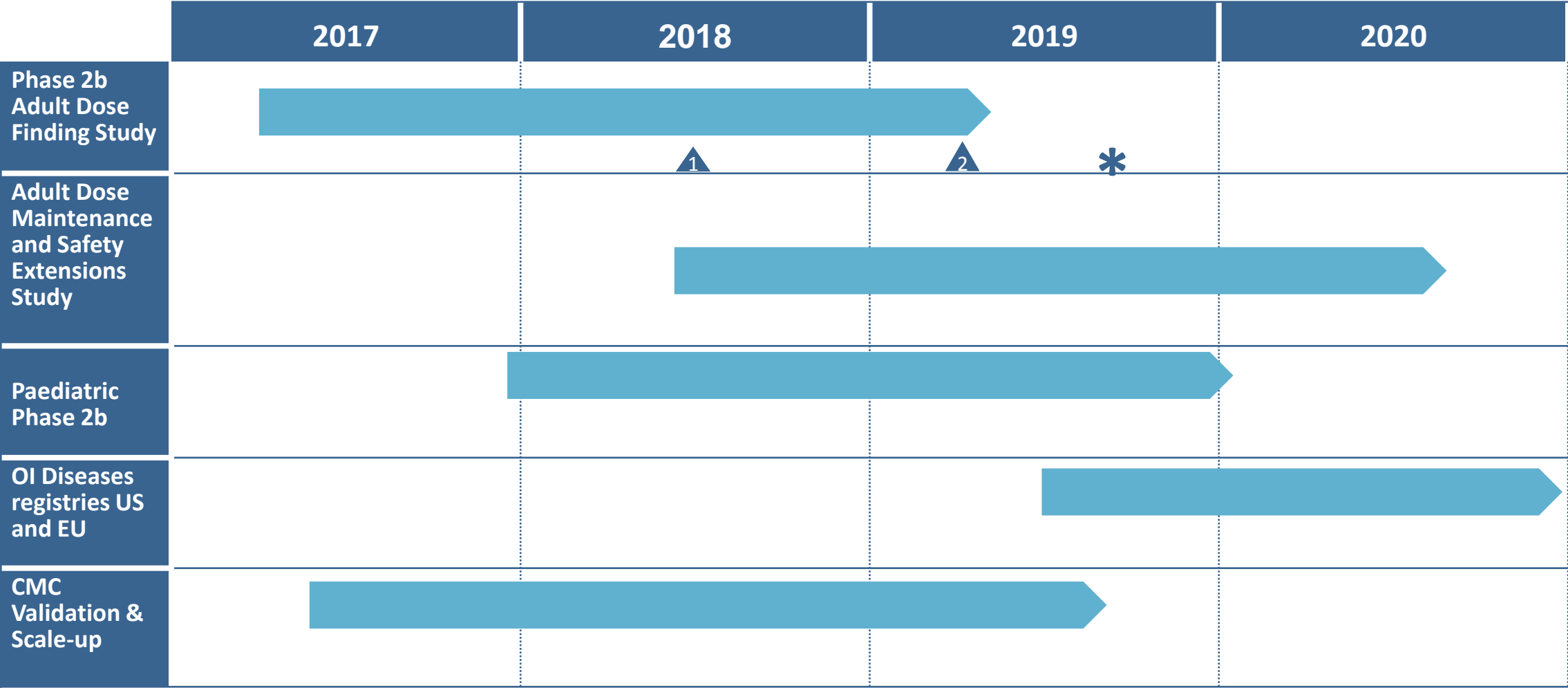
- Ongoing dialogue with EMA and HTA's
- Paediatric plan to be agreed
- Real world evidence/registries

**Adult study initiated:
Q2 2017**

**Paediatric study initiation:
End 2017**

- **Potential for filing in EU for Conditional Approval with adult data in 2019**
- **Discussion with FDA post adult and paediatric data in 2019/2020**

BPS-804 INDICATIVE TIMELINES



(1) Six month data read-out (2) 12 month data read-out



BGS-649

III



HYPOGONADOTROPIC HYPOGONADISM (HH) IN OBESE MEN

A highly prevalent clinical syndrome that results from inadequate levels of testosterone

Prevalence:



~32.6%

Adult males in the US are obese ¹



~21.5%

Adult males in the EU are obese ¹



~15.8%

HH prevalence in obese men ²



10 million*

obese men with HH in the US and the EU

*estimate

Symptoms:

- Reduced or loss of libido
- Erectile dysfunction
- Fatigue
- Impaired physical endurance and strength
- Loss of vitality/motivation

Low current treatment rates <13% in the US and lower in Europe ³

Androgel average annual pricing is \$6,890 per year (market leader)

1) Based on 2014 WHO estimates

2) Hofstra et al (2008) Netherlands J. Med, 66 p103-109

3) Update on Hypogonadism and Testosterone Replacement Therapy (2011) Chapter in Practicing Clinical Exchange p1-15

POSITIVE TREATMENT LANDSCAPE

TOPICAL TESTOSTERONE

Black box warning – secondary exposure to testosterone

Suppression of LH and FSH (loss of fertility)

Potential for supra physiological levels of testosterone – cardiovascular

Daily application – messy to apply



TESTOSTERONE INJECTABLES AND PATCHES

Black box warning – pulmonary oil micro embolism and anaphylaxis shock

Suppression of LH and FSH (loss of fertility)

Not flexible for dose reversal

Not self applied plus needle phobia



ORAL TESTOSTERONE

In studies levels of supra physiological levels of testosterone beyond FDA limits

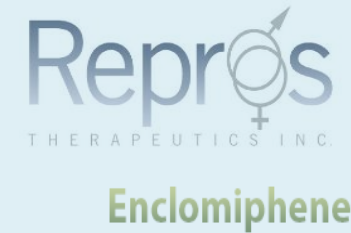
Suppression of LH and FSH (loss of fertility)

Twice/once daily tablet

Patient preferred oral option with no risk of transference



OTHER APPROACHES



✓ BGS-649 – ORAL and RESTORES THE PATIENTS OWN TESTOSTERONE

Once/week tablet which in clinical studies to-date has normalised testosterone levels with no observations of supra physiological levels and with normalisation of LH and FSH (fertility)

BGS-649: CLINICAL DEVELOPMENT

Estimated enrolment:

268

Obese men with HH

BMI > 30 kg/m²

Trial arms:

Three different weekly dosing regimens

Vs

Randomised
Placebo

Study duration:

24

Weeks



Blinded interim analysis 93 patients at 4 weeks Q1 2017

Completion of enrolment expected shortly

Top line data:
Q1 2018

Primary endpoints

Normalisation of testosterone
300 – 1000 ng/dl in 75% of patients at 24 weeks

Secondary endpoints

- Change in LH and FSH
- Body composition
- Semen analysis
- Three PROs: IIEF, PROMIS and BFI

6 month safety extension study in <120 patients

Expected completion
Q3 2018

International Index of Erectile Function (IIEF), patient-reported outcomes measurement information system (PROMIS) and the Brief Fatigue Inventory (BFI)



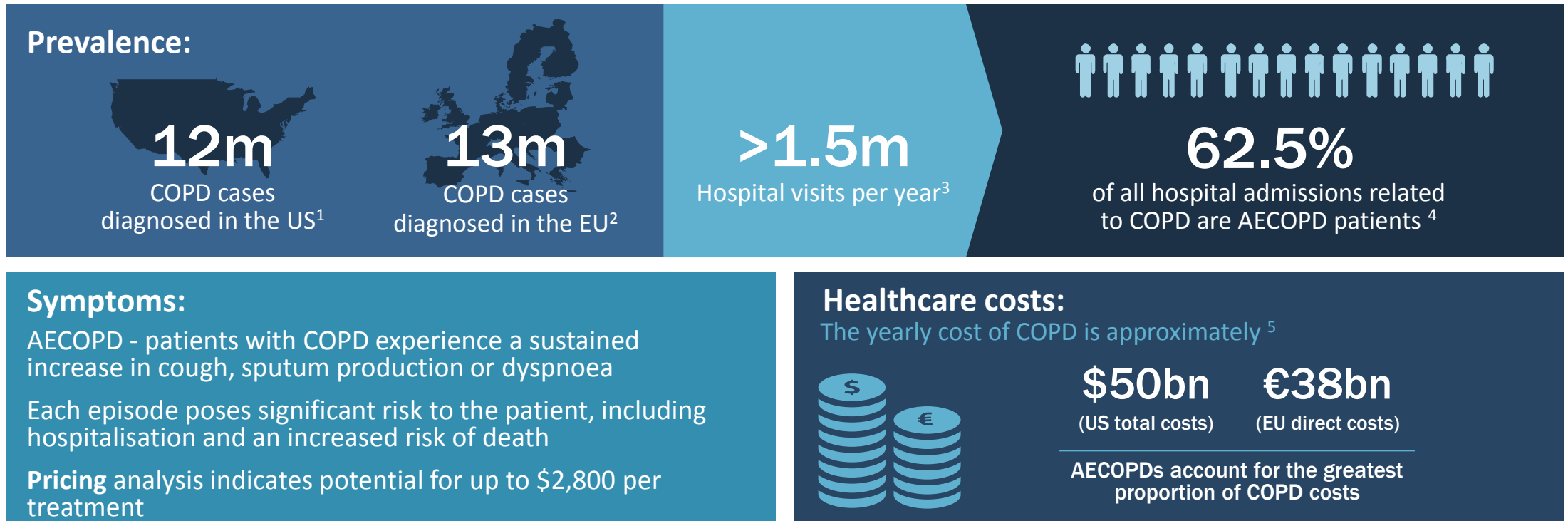
ACUMAPIMOD

III



ACUTE EXACERBATIONS OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (AECOPD)

COPD includes chronic bronchitis, emphysema and some forms of bronchiectasis



1) National Heart, Lung and Blood Institute (accessed in Feb 2016)
2) COPD Coalition
3) Mannino et al (2002) MMWR Surveill Summ 51: p1-6

4) Wier et al (2011) AHRQ, HCUP, Statistical Brief #106 p1-11
5) Global Strategy for the Diagnosis, Management and Prevention of COPD, Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2016

ACUMAPIMOD: CLINICAL DEVELOPMENT

282

AECOPD patients

- GOLD stage II to IV
- Requiring hospitalisation for treatment

Trial arms:

Two different dosing regimens

Vs

Placebo
Randomised
on top of SoC

Study duration:

26
Weeks



Enrolment
completed:
Q2 2017

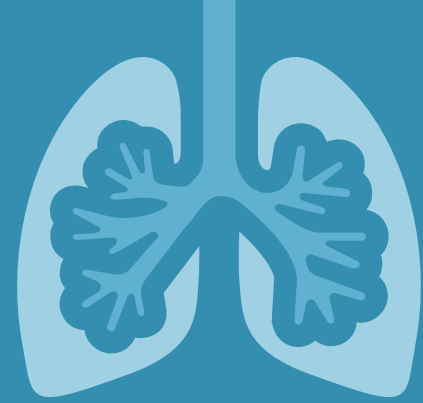
Top line data
expected:
Q4 2017

Primary endpoints

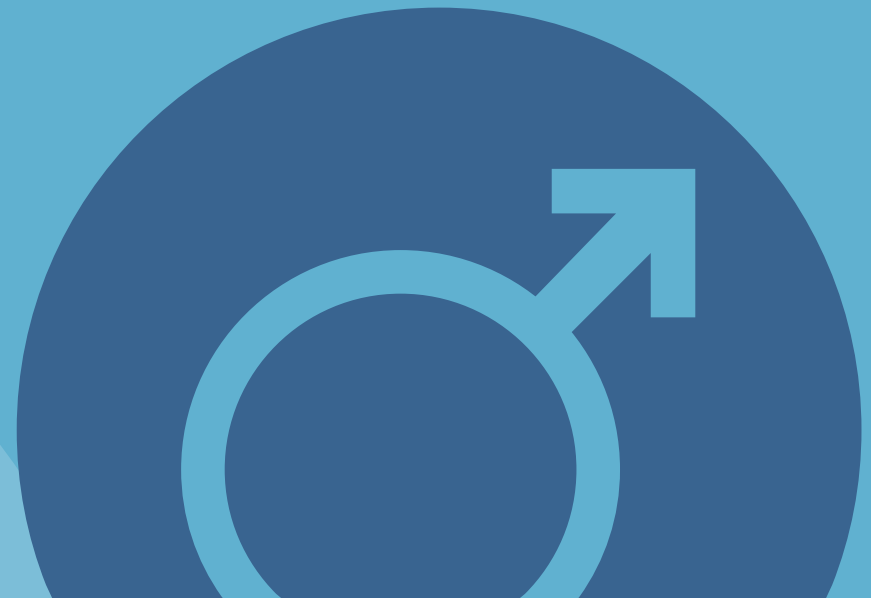
Change in FEV1 from baseline at 7 days

Secondary endpoints

- Assessment of AUC of FEV1 over time
- Respiratory rate
- Time to normalisation of spirometry parameters
- EXACT-PRO



H1 2017 FINANCIAL RESULTS



CONSOLIDATED STATEMENT OF COMPREHENSIVE LOSS

FOR THE SIX MONTHS ENDED 30 JUNE 2017

H1 2017 (A)	H1'17 (A)	SBP	Fx	Other	Non-GAAP
Research and development	(21.4)	0.6			(20.8)
Administrative expenses	(5.0)	2.0			(3.0)
Operating Loss	(26.4)	2.6			(23.8)
Loss before Tax	(27.3)	2.6	1.0		(23.7)
Net Loss for the period	(22.7)	2.6	1.0		(19.1)
EPS (pence)	(34.0)				(27.0)*

H1 2016 (A)	H1'16 (A)	SBP	Fx	Other	Non-GAAP
Research and development	(11.1)	1.1			(10.0)
Administrative expenses	(7.0)	4.2		0.2	(2.6)
Operating Loss	(18.1)	5.3		0.2	(12.6)
Loss before Tax	(16.9)	5.3	(1.2)	0.2	(12.6)
Net Loss for the period	(14.7)	5.3	(1.2)	0.2	(10.4)
EPS (pence)	(59.0)				(16.0)*

**proforma adjusted*

DEVELOPMENT COSTS BY SEGMENT

FOR THE SIX MONTHS ENDED 30 JUNE 2017

H1 2017 (A)		Acumapimod	BGS-649	BPS-804	Central / Other	Total
Development expenses		(5.7)	(7.1)	(8.3)	(0.3)	(21.4)
Add back:	SBP	0.1	0.1	0.2	0.2	0.6
Net R&D		(5.6)	(7.0)	(8.1)	(0.1)	(20.8)

H1 2016 (A)		Acumapimod	BGS-649	BPS-804	Central / Other	Total
Development expenses		(4.2)	(4.1)	(2.5)	(0.3)	(11.1)
Add back:	SBP	0.2	0.3	0.3	0.2	1.0
Net R&D		(4.0)	(3.8)	(2.2)	(0.1)	(10.1)

- Acumapimod completed enrolment in May 2017 with top-line data due in Q4 2017 and completion of spend on the study in Q1 2018
- BGS-649 main study due to complete enrolment in the coming weeks with completion of spend on the study in H1 2018, with costs on the extension study in up to 120 patients continuing for up to six further months
- BPS-804 adult study commenced in H1 2017
- Total underlying development costs increased 79% compared to H1 2016 when only two studies were operational

GROUP BALANCE SHEET AS AT 30 JUNE 2017

	30-Jun 2017	31-Dec 2016	30-Jun 2016
Non-current assets	26.0	26.0	26.0
Cash, deposits and investments	56.6	53.6	70.2
Other current assets	7.1	7.2	4.6
current liabilities	11.9	3.2	5.8
Provisions	1.8	1.2	1.1
Convertible loan	1.9	3.1	3.0
Net Assets	74.1	79.3	90.9

- Investments are cash deposits held as term deposits with 3m to 12m maturity
- Increase in current liabilities due to increase in clinical trial activity reflected in higher accrual and creditor balances
- Novartis Convertible Loan balance is after taking account of partial conversion in April 2017. Total Loan balance at 30 June 2017 is £2.3m (including equity component)

NEW DEBT FACILITY

- Debt facility agreed with two experienced sector lenders:
 - Silicon Valley Bank
 - Kreos Capital
- Total facility of £20m
- £10m to be drawn shortly, balance available until 30 April 2018 with certain conditions
- Key terms
 - Competitive, high single digit interest rate
 - Interest only to 30 Sep 2018 with 30 month capital and interest repayments thereafter
 - Warrants representing c.0.5% of the current share capital to be issued on initial drawdown
 - Further warrants representing 11% of future funds drawn down will be issued
- Use of funds
 - Increase operational and development flexibility

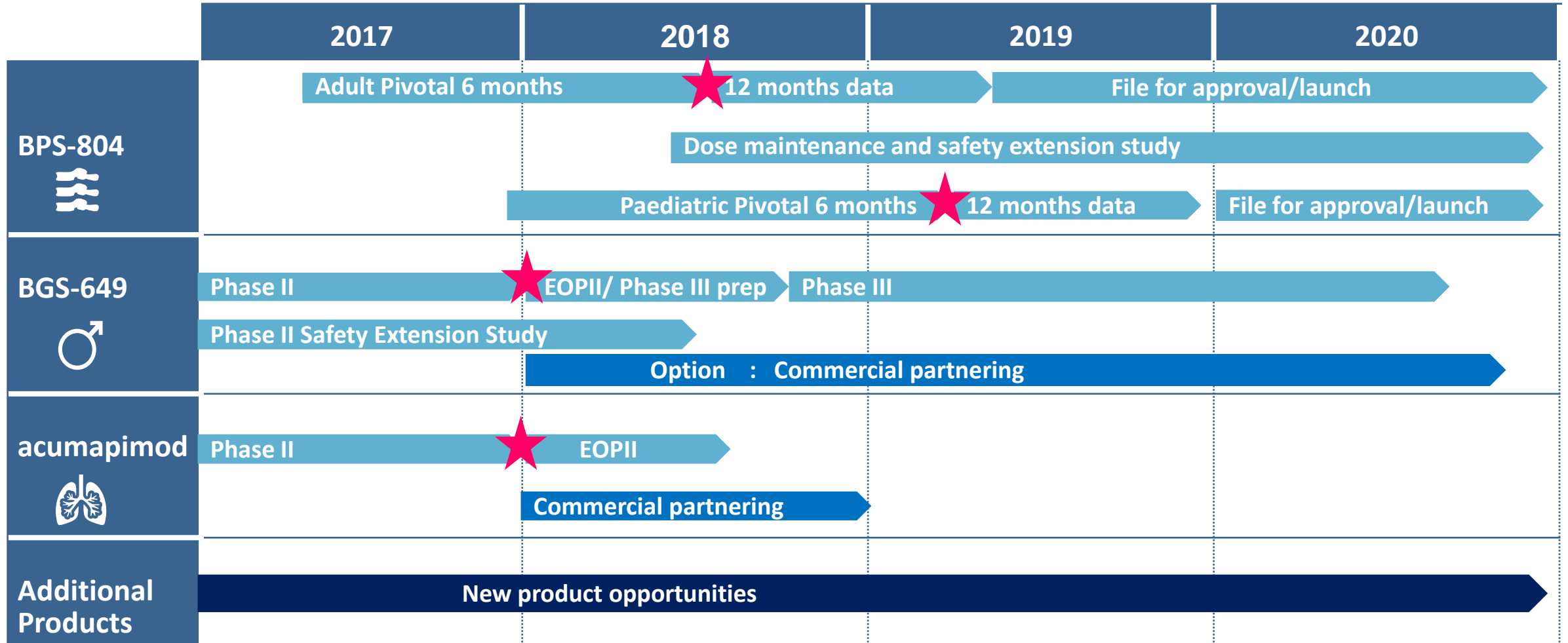


SUMMARY

111



INDICATIVE TIMELINES: KEY MILESTONES IN NEXT 12 MONTHS



INVESTMENT THESIS

Plan to build a rare and orphan disease commercial business based on products acquired from major pharmaceutical companies

Three initial diversified Phase 2 products from Novartis (no buyback rights) each with >\$500m market potential



Multiple Phase 2/2b data points within the next 12 months



Current pipeline orphan product BPS-804 potential for filing for approval in 2019 and launch in 2020



Experienced management team and board with strong balance sheet

£126m

raised since July 2015

Active business development pipeline with opportunities to expand portfolio under review





Mereo BioPharma Group plc

One Cavendish Place
London, W1G 0QF

UK

+44 (0)333 0237 300

