



Focused on unmet needs in women's reproductive health

H.C. Wainwright Global Life Sciences Conference

March 9, 2021



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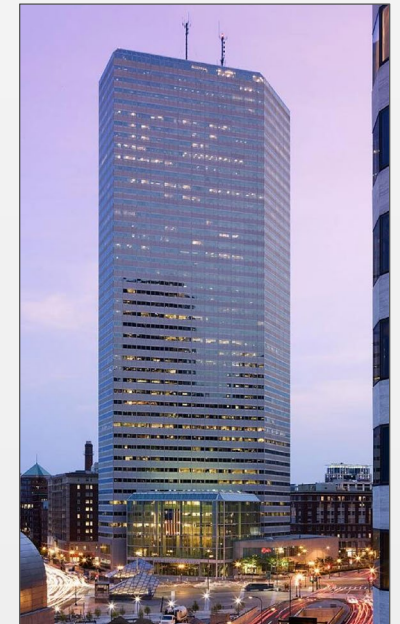
This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

About ObsEva

ObsEva (NASDAQ: OBSV and SIX: OBSN) is a biopharmaceutical company developing and commercializing novel therapies to improve women's reproductive health.

Through strategic in-licensing and disciplined drug development, ObsEva has established a late-stage clinical pipeline with development programs focused on treating endometriosis, uterine fibroids and preterm labor.

- Founded in 2012
- Locations: Geneva, Switzerland and Boston, MA
- Employees: 46 total EU and US
- Listings: NASDAQ (OBSV) and SIX (OBSN)
- Collaborations with Kissei, Yuyuan Bioscience, Merck Serono



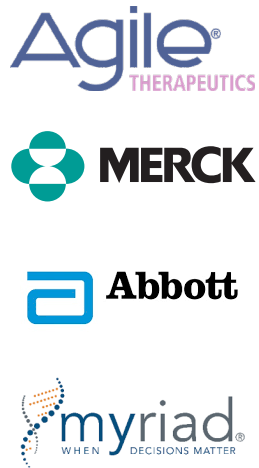
Seasoned leadership team



Brian O'Callaghan
Chief Executive Officer



Elizabeth Garner MD, MPH
Chief Medical Officer



David Renas
Chief Financial Officer



Fabien de Ladonchamps
Chief Administrative Officer



Jean-Pierre Gotteland, PhD
Chief Scientific Officer



Wim Souverijns, PhD
Chief Commercial Officer



Investor highlights

1

Pursuing promising large indications for serious conditions that compromise **women's reproductive health and beyond**, with the potential to extend into other indications including prostate cancer

2

Ebopiprant, the **only known product in development for preterm labor**, has positive Phase 2a data that support a **Phase 2b dose ranging study**

3

Yselty® has potential **best in class efficacy, a favorable tolerability profile, and unique flexible dosing options**

4

Business model built on strong **global partnerships and collaborations**

5

Seasoned **leadership team** with a track record for success

Product overview

YSELT[®]
(LINZAGOLIX)



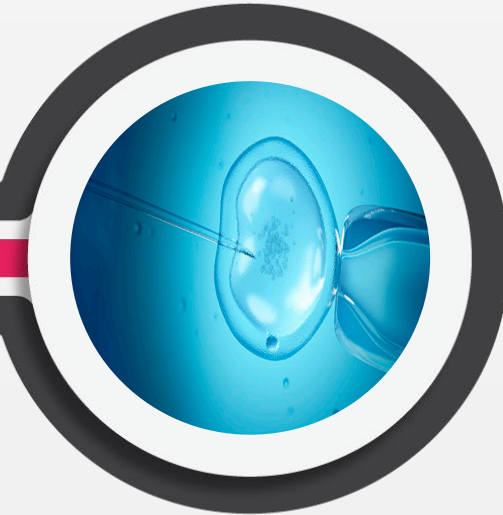
Potential to relieve symptoms of heavy menstrual bleeding due to uterine fibroids and pain associated with endometriosis

EBOPIPRANT
(OBE022)



Potential to delay preterm birth to improve newborn health and reduce medical costs

NOLASIBAN



Potential to improve live birth rate following IVF & embryo transfer

Multiple development programs drive value

	Phase 1	Phase 2	Phase 3	Next Milestones
YSELT [®] (LINZAGOLIX) Oral GnRH receptor antagonist	Uterine Fibroids – Ph3 PRIMROSE 2 (EU & US)			NDA submission (Q2:21) MAA for uterine fibroids expected approval (Q4:21)
	Uterine Fibroids – Ph3 PRIMROSE 1 (US)			
	Endometriosis – Ph3 EDELWEISS 3 (EU & US)			EDELWEISS 3: Primary endpoint readout expected (Q4:21)
EBOIPRANT Oral PGF _{2α} receptor antagonist	Preterm Labor – Ph2b (EU & Asia)			Initiation of Phase 2b dose ranging study (Q4:21)
NOLASIBAN Oral oxytocin receptor antagonist	IVF – Ph1/2 (China)			In development, partnership with Yuyuan BioScience Technology (PRC)

EBOPIPRANT

Potential To Delay
Preterm Birth To
Improve Newborn
Health And Reduce
Medical Costs



Preterm birth is delivery before 37 weeks of pregnancy

Life altering & costly

\$26B /yr

US economic burden

>1

In 10 babies are born preterm

1 million

preterm related deaths in 2015 WW¹

LEADING

cause of death in children under age 5

Babies surviving early birth face greater likelihood of lifelong disabilities

Preterm birth, a costly burden per baby

\$16.9_{B+} US infant medical costs

\$195_{K+} average cost per US survivor infant born 24-26 weeks

\$50_K average US cost for a preterm infant



Ebopiprant is designed to delay delivery by at least 48 hours

Short-term prolongation of pregnancy (*at least 48 hours*) provides a critical window for impact on neonatal outcomes:

- Allows full effect of corticosteroids on neonatal lung maturity
 - Prematurity associated with respiratory complications due to insufficient lung maturation
 - Corticosteroids used to speed up maturation process
 - Maximum effect occurs ~48+ hours after administration
- Allows patient transfer to centers with NICU*



Ebopiprant, a potential breakthrough for preterm labor*



Ebopiprant has demonstrated proof of concept in delaying preterm birth, enabling ObsEva to plan its further development



**DESIGNED TO TREAT MORE
WOMEN SUFFERING FROM
UTERINE FIBROIDS**

Yselty®, our proposed trade name for linzagolix, is conditionally acceptable for the FDA. Linzagolix has not been approved by FDA for any indication for use. Linzagolix is an investigational drug.



Uterine fibroids

A significant unmet need translating into a multibillion market

\$34B /yr

total **US** costs from direct costs, lost workdays and complications

9 million

women in the **US** affected by fibroids

70%+

of women have fibroids by age 50

Quality of Life

premenopausal women may experience heavy menstrual bleeding, anemia, bloating, infertility, pain and swelling

600,000

hysterectomies are performed annually in the **US**

300,000

are because of uterine fibroids

>4 million

women in the **US** are treated annually for fibroids

Uterine fibroids are ruining lives...

No two women are the same, but millions share a common problem: suffering the daily consequences of uterine fibroids



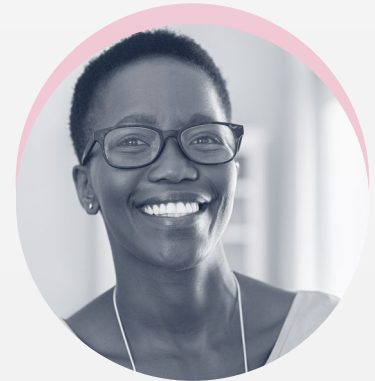
**Yselty® 200 mg once daily
with concomitant ABT**

For long-term use for women
for whom ABT is appropriate



**Yselty® 100 mg once
daily without ABT**

For long-term use for women with
a contraindication to or who prefer
to avoid ABT

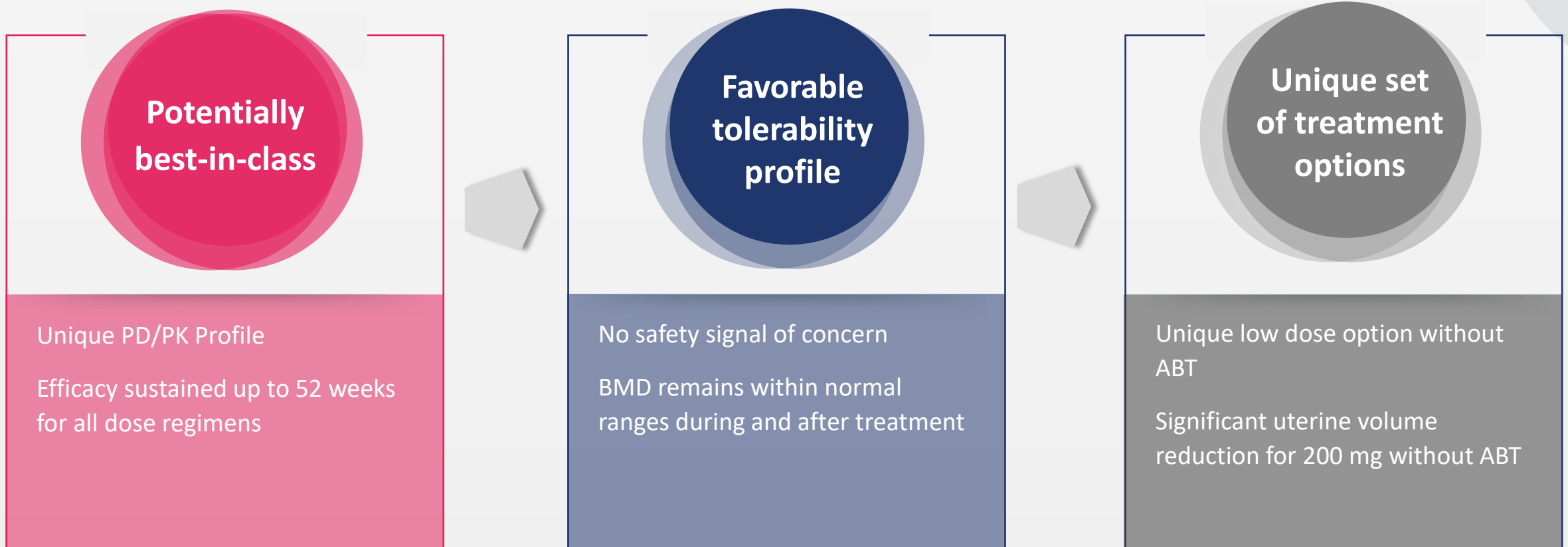


**Yselty® 200 mg once
daily without ABT**

For short-term use (up to 6 months)
when rapid reduction in fibroid and
uterine volume is desired

...Yselty®, designed to treat more women

Potential new gold standard treatment for uterine fibroids, designed to treat more women



ABT¹ containing regimens may be contraindicated in up to 50% of US women with uterine fibroids based on the elagolix US label² and analysis of CDC data³

¹ ABT = estradiol 1mg/norethindrone acetate 0.5mg

² U.S. FDA elagolix PI, section 4. Contraindications and section 5.1. Warnings and precautions – thromboembolic disorders and vascular events

³ Current Cigarette Smoking Among Adults in the United States. Centers for Disease Control and Prevention https://www.cdc.gov/tobacco/data_statistics/fact_sheets/adult_data/cig_smoking/index.htm#nation; <https://www.cdc.gov/2018>

Endometriosis

An emotionally and physically painful condition

\$22B /yr

total **US** costs

176 million

women **worldwide**
suffer from
endometriosis

60%+

of women feel
symptoms by
age 16

Quality of Life

premenopausal women
may experience pelvic pain,
pain during intercourse and
defecation, infertility and
emotional distress

Endometriosis
affects up to

10%+ in the general
population

50%+ in the fertile
population

60%+ in patients with
chronic pelvic pain

5 million

women in the **US**
are treated annually
for endometriosis

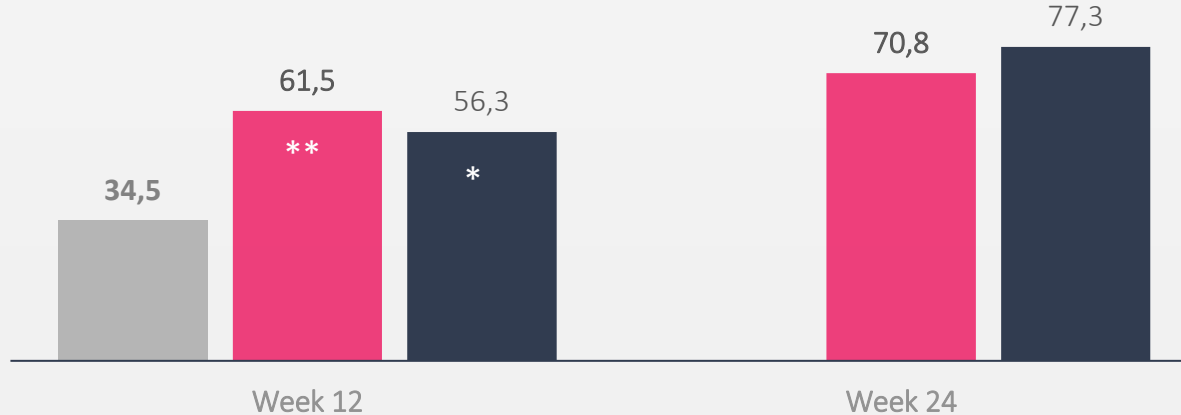


Phase 2b EDELWEISS in endometriosis

Overall Pelvic Pain (%)

Responder (0-3 VRS)

■ Plc ■ 75mg ■ 200mg

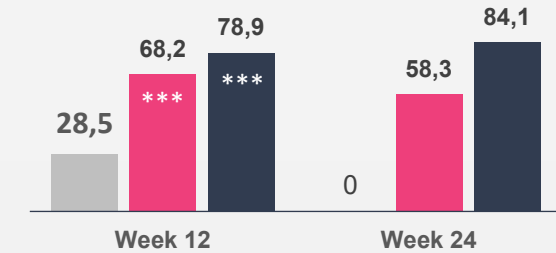


Potential point of differentiation as 75mg partial suppression dose is nearly as effective as 200mg full suppression dose

Dysmenorrhea (%)

Responder (0-3 VRS)

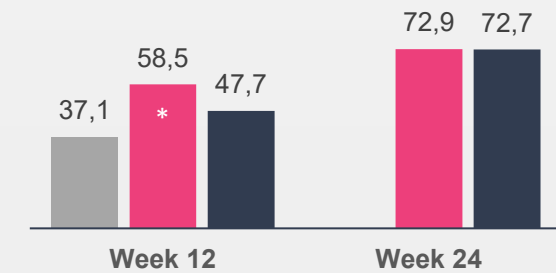
■ Plc ■ 75mg ■ 200mg



Non-menstrual Pelvic Pain (%)

Responder (0-3 VRS)

■ Plc ■ 75mg ■ 200mg



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Thank you

