UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Wa	snington, D.C. 20549	
	FORM 6-K	
PURSUANT T	FOREIGN PRIVATE TO SECTION 13a-16 O URITIES EXCHANGE	R 15d-16
	the month of April, 2017	
	sion File Number: 001-3681	5
	dis Pharma Registrant as Specified in Its	
	Tuborg Boulevard 5 DK-2900 Hellerup Denmark ss of principal executive offices)	
Indicate by check mark whether the registrant files or will file annua	l reports under cover of Form	20-F or Form 40-F.
Form	20-F ℤ Form 40-F □	
Indicate by check mark if the registrant is submitting the Form 6-K i	n paper as permitted by Regu	lation S-T Rule 101(b)(1): □
Indicate by check mark if the registrant is submitting the Form 6-K i	n paper as permitted by Regu	lation S-T Rule 101(b)(7): □

Spokespersons of Ascendis Pharma A/S (the "Company") presented the information in the presentation slides attached hereto as Exhibit 99.1 in a webcast on April 3, 2017.

The furnishing of the attached presentation is not an admission as to the materiality of any information therein. The information contained in the presentation is summary information that is intended to be considered in the context of more complete information included in the Company's filings with the Securities and Exchange Commission (the "SEC") and other public announcements that the Company has made and may make from time to time by press release or otherwise. The Company undertakes no duty or obligation to update or revise the information contained in this report, although it may do so from time to time as its management believes is appropriate. Any such updating may be made through the filing or furnishing of other reports or documents with the SEC, through press releases or through other public disclosures.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Ascendis Pharma A/S

Date: April 3, 2017

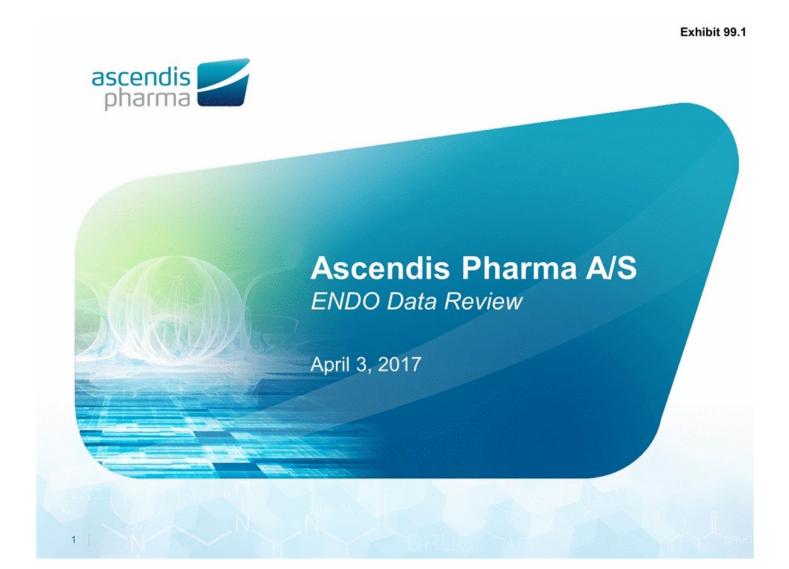
By: /s/ Michael Wolff Jensen

Michael Wolff Jensen Chairman and Senior Vice President, General Counsel

EXHIBIT INDEX

Exhibit No. Description

99.1 Company Presentation.



Cautionary Note On Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation, such as statements regarding our future results of operations and financial position, including our business strategy, prospective products, availability of funding, clinical trial results, product approvals and regulatory pathways, collaborations, timing and likelihood of success, plans and objectives of management for future operations, and future results of current and anticipated products, are forward-looking statements. These forward-looking statements are based on our current expectations and beliefs, as well as assumptions concerning future events. These statements involve known and unknown risks, uncertainties and other factors that could cause our actual results to differ materially from the results discussed in the forward-looking statements. These risks, uncertainties and other factors are more fully described in our reports filed with or submitted to the Securities and Exchange Commission, including, without limitation, our most recent Annual Report on Form 20-F filed with the SEC on March 22, 2017, particularly in the sections titled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations." In light of the significant uncertainties in our forward-looking statements, you should not place undue reliance on these statements or regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified timeframe, or at all.

Any forward-looking statement made by us in this presentation speaks only as of the date of this presentation and represents our estimates and assumptions only as of the date of this presentation. Except as required by law, we assume no obligation to update these statements publicly, whether as a result of new information, future events or otherwise after the date of this presentation.

This presentation concerns product candidates that are or have been under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration, European Medicines Agency or other foreign regulatory authorities. These product candidates are currently limited by U.S. Federal law to investigational use, and no representations are made as to their safety or effectiveness for the purposes for which they are being investigated.

Ascendis is a trademark that we use in this presentation. Any other trademarks appearing in this presentation are the property of their respective holders.



Agenda: ENDO 2017 Data Review

Introduction - Jan Mikkelsen, Chief Executive Officer

Presentation Highlights

- TransCon Growth Hormone (4 posters)
 Jonathan Leff, M.D. Chief Medical Officer
- TransCon PTH (2 posters; one late-breaker)
 David B. Karpf, M.D. VP, Clinical Development
- TransCon CNP (2 posters; one late-breaker)
 Kennett Sprogøe, PhD, Senior Vice President, Product Innovation

Q&A



TransCon Technology

Parent Drug TransCon carrier TransCon linker Creation of TransCon Prodrug TransCon Prodrug TransCon linker TransCon linker

- Predictable release of unmodified parent drugs
 - Parent drugs can be proteins, peptides or small molecules
 - Linker release only dependent on pH and temperature
 - TransCon carrier enables both systemic and localized drug exposure
- Maintains same mode-of-action of parent drug molecule
- Release of parent drug supporting up to half-yearly administration
- TransCon products eligible for new composition of matter IP claims



Building a Leading Company in Rare Diseases

Internal Rare Disease Endocrinology Pipeline

Product Candidate	Primary Indication	Development Stage	Potential WW Market ¹	WW Commercial Rights
TransCon Growth Hormone	Growth hormone deficiency	Phase 3	> \$3 billion ²	ascendis pharma
TransCon PTH	Hypoparathyroidism	Pre-IND	> \$2 billion ³	ascendis pharma
TransCon CNP	Achondroplasia	Pre-IND	> \$1 billion	ascendis pharma

Current/Potential Strategic Collaborations

TransCon Ranibizumab	Ophthalmology	Not disclosed	> \$7 billion	Genentech
TransCon Peptides	Diabetes	Not disclosed	> \$1 billion	SANOFI 🧳
TransCon Treprostinil	PAH	Phase 1	> \$1 billion	Partnering Opportunity

Endocrinology

Ophthalmology

CV

² Includes all indications.

5 3 Based on treatment of ~25% of the U.S. patient population of ~77,000 patients.



¹ Based on market data and company estimates.





Jonathan Leff, M.D. Chief Medical Officer

TransCon Growth Hormone Target Product Profile

- ✓ Efficacy
- √ Safety (including immunogenicity)
- √ Tolerability
- √ Weekly subcutaneous administration
- √ Single injection/dose
- ✓ Convenience
 - √ 31G needle
 - ✓ Room temperature storage
- ✓ Device
 - Easy to use
 - ✓ Empty-all design (controlled substance)

Comparable to Daily Growth Hormone





Phase 3 Study - heiGHt Trial Ongoing



~ 150 treatment-naïve children with GHD (2:1 randomization)

Screening ≤ 6 weeks

Screening Scr

Key Inclusion Criteria

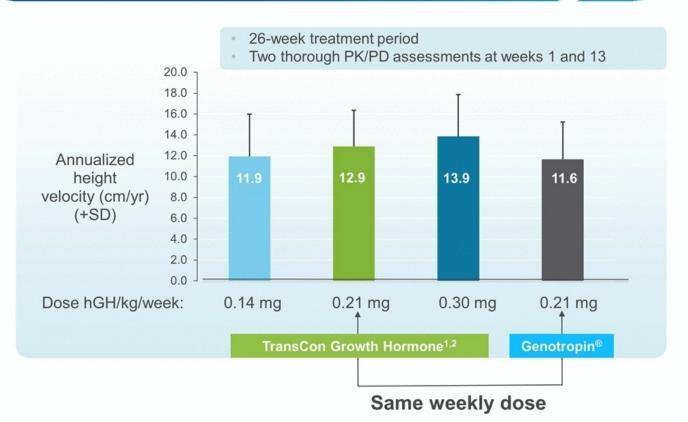
- Prepubertal children with GHD
- Height SDS ≤ -2.0
- IGF-1 SDS ≤-1.0
- GHD with 2 GH stim. tests (GH ≤10 ng/mL)
- Bone age ≥ 6 months behind chronological

Key Endpoints

- Annualized height velocity (HV) at 52 weeks (primary endpoint)
- Annualized HV at earlier time points
- Change in HT SDS over 52 weeks
- Change in serum IGF-1/IGFBP-3 levels
- Change in IGF-1 SDS and IGFBP-3 SDS
- Normalization of IGF-1 SDS



Phase 2 Data Provided Foundation for Phase 3



Intergroup differences not statistically significant.
 Conducted with a previous lower strength version of TransCon Growth Hormone.



TransCon Growth Hormone Phase 3 Program



- FDA supports size and scope of program for pediatric GHD filing
- Safety database to be >300 subjects at time of anticipated filing
- · EMA discussions ongoing



Auto-Injector Designed to Optimize Adherence and Compliance

Key Features

- Simple operation with few user steps
- A single low-volume (<0.60 mL) injection for patients less than 60kg
- Small needle comparable to daily hGH (31G, 4mm)
- Room temperature storage
- No waste due to empty-all design
- Enabled for Bluetooth® connectivity to IT health care solutions
- Device lifetime at least 4 years



Auto-injector planned during extension study and for commercial launch



Extensive Development of Patient-Centric Device

- Device development driven by user feedback >70 subjects, caregivers, health care professionals
- Six human factor usability studies
- Single use cartridges in 20% dosing increments with a single small injection of <0.60 mL
- Built to be connected to future IT solutions for improved adherence in real world
- Expected to be available at launch









TransCon PTH: Once-daily for Hypoparathyroidism

David B. Karpf, M.D.

VP, Clinical Development

Hypoparathyroidism - Not Only About Serum Calcium

Hypoparathyroidism (HP) affects 77,000 patients in the U.S.¹

Patients suffer numerous comorbidities:

- Hypocalcemia and hypercalcemia
- Hypercalciuria (stones, nephrocalcinosis)
- Psychiatric disorders, depression
- Reduced cognition/QOL

- Basal ganglia/CNS calcifications
- Lenticular calcifications/cataracts
- Arterial calcifications/atherosclerosis

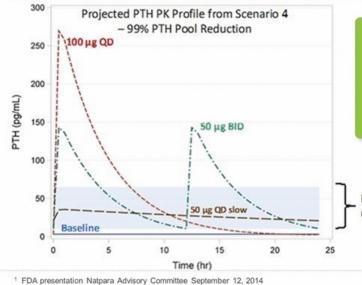
TransCon PTH designed to address limitations of current therapies normalizing blood/urinary calcium levels, serum phosphate and bone turnover



Defined PK Profile for PTH Replacement Therapy from FDA¹ and NIH²⁻⁴



Altering Regimen (QD to BID) or Release Profile Bring PTH Levels Close to the Physiological Levels



NIH research in patients with HP shows: continuous infusion superior to once or twice daily

Normal Physiological range (10 -65 pg/mL)



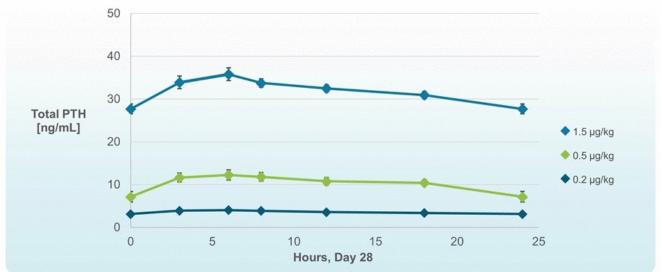
² JAMA 1996, 276(8): 631-636

^{15 | &}lt;sup>3</sup> J Clin Endocrinol Metab 1998, 83(10): 3480-3486 ⁴ J Clin Endocrinol Metab 2013, 88(9): 4214-4220

PK Mimics Physiological PTH Levels over 24 Hours

- Maintained a flat infusion-like profile with once-daily administration
- Low PTH peak to trough ratio with low variability

TransCon PTH Multiple Dose Study in Monkeys (n=6 to 10/group)

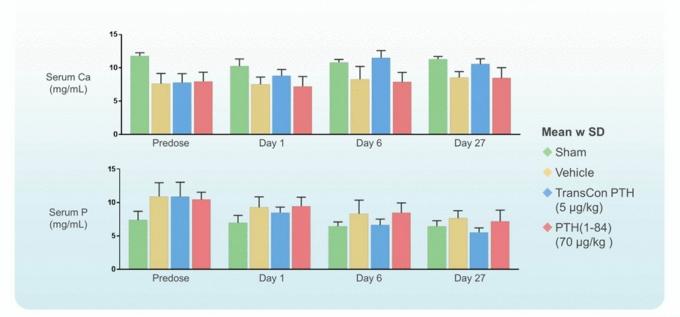


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16

Positive PD Profile in Gold Standard Disease Model

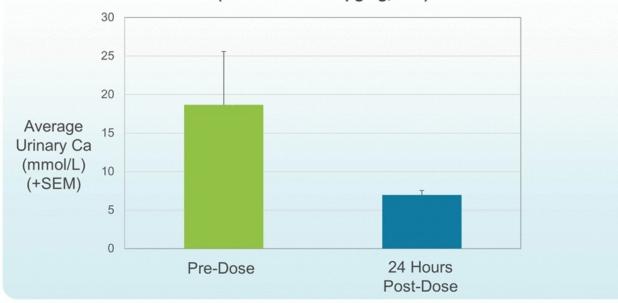
- In contrast to daily PTH(1-84) treatment in TPTx rat model, TransCon PTH:
 - Normalized serum calcium and serum phosphorus
 - Did not cause abnormal increase in bone density



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Reduction in Urinary Calcium Excretion

Urinary Ca following SC injections in cynomolgus monkeys (TransCon PTH 1µg/kg, n=3)



TransCon PTH administration reduced urinary calcium excretion in cynomolgus monkeys





Achondroplasia – A Serious and Disabling Disease

Autosomal dominant genetic disorder

- Most common form of human dwarfism.
- Approximately 250,000 patients worldwide¹
- · 80% born to average-sized parents

Patients suffer numerous comorbidities

- Back/spine/cord compression
- · Ear infections/sleep apnea
- Cardiovascular complications
 - Obesity
- Dental complications
- Bowed legs

No FDA-approved therapy

 Only option to improve height is surgical limb lengthening

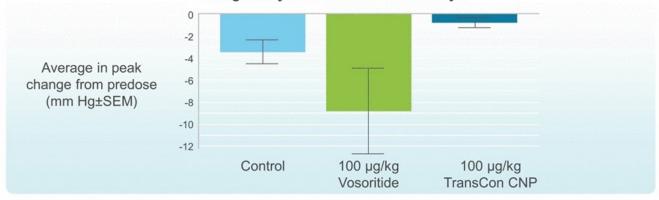




TransCon CNP Designed to Improve Efficacy and Safety

- TransCon CNP has a very long half-life (~80 hours) providing continuous exposure to CNP with weekly administration
- No adverse hemodynamic effects (hypotension) in cynomolgus monkeys or mice at levels exceeding the expected clinical dose
- Lack of adverse hemodynamic effect may widen therapeutic window, thereby enhancing efficacy

Change in Systolic Pressure in Monkeys



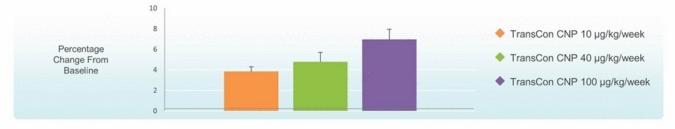
* "Vosoritide" refers to a synthesized molecule with the same amino acid sequence prepared by Ascendis Pharma.



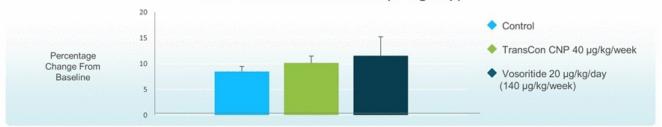
Dose Response in Juvenile Healthy Monkeys

 Healthy monkeys showed dose dependent tibia bone growth compared to vosoritide¹; ulna growth data consistent





Tibial Growth at Six Months (n=4/group)



* "Vosoritide" refers to a synthesized molecule with the same amino acid sequence prepared by Ascendis Pharma.



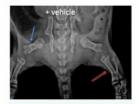
TransCon CNP in ACH Disease Model (Fgfr3Y367C/+)

Linear and Skeletal Growth in ACH Mice

TransCon CNP reversed the phenotype, restoring growth



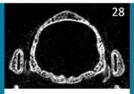




Vehicle

Preventing Premature Fusion of Synchondroses of Foramen Magnum

TransCon CNP may ameliorate most disabling ACH traits, including stenosis of the foramen magnum

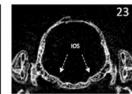












TransCon CNP

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23

ENDO Conference Highlights



- Only long-acting GH in clinical development that delivers unmodified GH, achieving same distribution and effects as hGH
- Phase 3 heiGHt Trial on track to complete enrollment 4Q 2017



- Infusion-like profile potentially addresses all aspects of hypoparathyroidism
- Regulatory filing planned in Australia during 2Q 2017; Phase 1 to begin 3Q 2017



- Efficacy without potential dose-limiting cardiovascular adverse effects; once-weekly dosing in ACH
- IND or equivalent filing expected 4Q 2017



