UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

Current Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 20, 2019

DARÉ BIOSCIENCE, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-36395

20-4139823

(Commission File Number)

(I.R.S. Employer Identification No.)

3655 Nobel Drive, Suite 260 San Diego, CA 92122 (Address of Principal Executive Offices and Zip Code)

Registrant's telephone number, including area code: (858) 926-7655

Not Applicable

(Former name or former address, if changed since last report.)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class Trading Symbol(s) Name of each exchange on which registered Common Stock Nasdaq Capital Market

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company $\ x$

| If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards p Section 13(a) of the Exchange Act. x | rovided pursuant to |
|---|---------------------|
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Item 8.01 Other Events

Included as Exhibit 99.1 to this report is a presentation about Daré and its product candidates, dated May 20, 2019, which is incorporated herein by reference. Daré intends to use the presentation and its contents in various meetings with investors, securities analysts and others, commencing on May 20, 2019.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit Number 99.1

Description
Corporate presentation, dated May 20, 2019

SIGNATURES

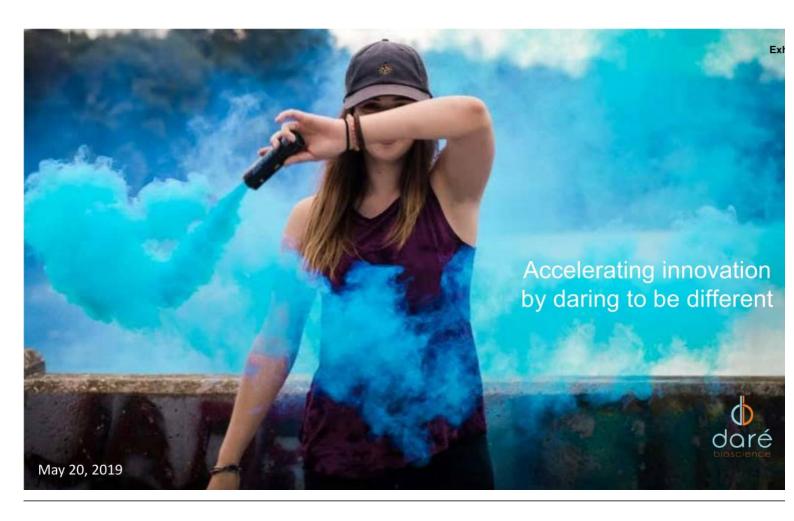
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

DARÉ BIOSCIENCE, INC.

Dated: May 20, 2019 By: /s/ Sabrina Martucci Johnson

Name: Sabrina Martucci Johnson

Title: President and Chief Executive Officer



Forward Looking Statements

THIS PRESENTATION IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT AN OFFER TO SELL OR A SOLICITATION OF AN OFFER TO BUY ANY SECURITIES OF DARÉ BIOSCIENCE, INC. ("DARÉ" OR THE "COMPANY"). THIS PRESENTATION INCLUDES CERTAIN INFORMATION OBTAINED FROM TRADE AND STATISTICAL SERVICES, THIRD PARTY PUBLICATIONS, AND OTHER SOURCES. DARÉ HAS NOT INDEPENDENTLY VERIFIED SUCH INFORMATION AND THERE CAN BE NO ASSURANCE AS TO ITS ACCURACY.

ALL STATEMENTS IN THIS PRESENTATION, OTHER THAN STATEMENTS OF HISTORICAL FACT, ARE FORWARD-LOOKING STATEMENTS WITHIN THE MEANING OF FEDERAL SECURITIES LAWS. IN SOME CASES, YOU CAN IDENTIFY FORWARD-LOOKING STATEMENTS BY TERMS SUCH AS "MAY," "WILL," "EXPECT," "PLAN," "ANTICIPATE," "STRATEGY," "DESIGNED," "COULD," "INTEND," "BELIEVE," "ESTIMATE," "TARGET," OR "POTENTIAL" AND OTHER SIMILAR EXPRESSIONS, OR THE NEGATIVE OF THESE TERMS. AS USED IN THIS PRESENTATION, "FIRST-IN-CATEGORY" IS A FORWARD-LOOKING STATEMENT REGARDING MARKET POTENTIAL OF A PRODUCT CANDIDATE. FORWARD-LOOKING STATEMENTS INVOLVE RISKS, UNCERTAINTIES AND ASSUMPTIONS THAT MAY CAUSE DARÉ'S ACTUAL RESULTS, PERFORMANCE OR ACHIEVEMENTS TO BE MATERIALLY DIFFERENT FROM THOSE EXPRESSED OR IMPLIED BY THE FORWARD-LOOKING STATEMENTS, INCLUDING, WITHOUT LIMITATION RISKS AND UNCERTAINTIES RELATING TO: THE OUTCOME OR SUCCESS OF CLINICAL TRIALS; DARÉ'S ABILITY TO RAISE ADDITIONAL CAPITAL AS NEEDED; DARÉ'S ABILITY TO OBTAIN AND MAINTAIN INTELLECTUAL PROPERTY PROTECTION FOR ITS PRODUCT CANDIDATES; DARÉ'S ABILITY TO DEVELOP PRODUCT CANDIDATES ON THE TIMELINES SET FORTH HEREIN; AND OTHER RISK FACTORS DESCRIBED IN DARÉ'S MOST RECENT ANNUAL REPORT ON FORM 10-K AND QUARTERLY REPORT ON FORM 10-Q FILED WITH THE SECURITIES AND EXCHANGE COMMISSION.

ALL FORWARD-LOOKING STATEMENTS IN THIS PRESENTATION ARE CURRENT ONLY AS OF THE DATE HEREOF AND DARÉ DOES NOT UNDERTAKE ANY OBLIGATION TO UPDATE ANY FORWARD-LOOKING STATEMENT TO REFLECT NEW INFORMATION, FUTURE DEVELOPMENTS OR OTHERWISE, EXCEPT AS REQUIRED BY LAW.

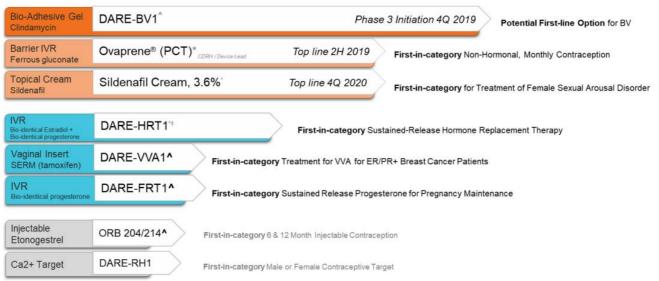
Vision: To become the premier innovation accelerator in women's health.

Mission: We achieve this by identifying, unlocking and advancing candidates with potential to be first-in-category, address persistent unmet needs, and promote a better quality of life for women.

Daring to be different

- A pure play biopharmaceutical company focused on improving the health and well being of women. Our focus areas include:
 - · Contraception / Pregnancy Prevention
 - · Sexual Health
 - · Vaginal Health
 - Fertility
- Partnering is core to our licensing and value creation strategy:
 - Product candidates that are commercially viable and attractive to strategic partners
 - Candidates that have a data package including a proof-of-concept and/or the ability to leverage a 505(b)(2) regulatory pathway
 - Candidates with the potential to be first-in-category that address persistent unmet needs in women's health
 - The ability to deliver products in a more personalized way for women

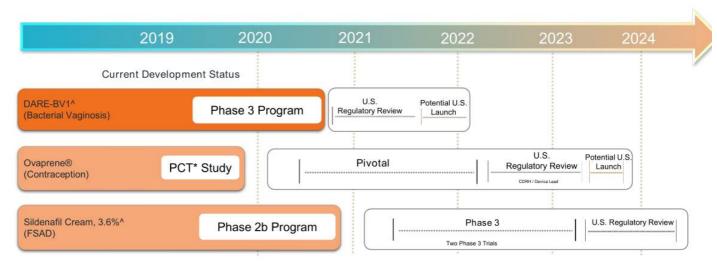




Accelerating early-stage clinical programs with collaborations and non-dilutive funding whenever possible

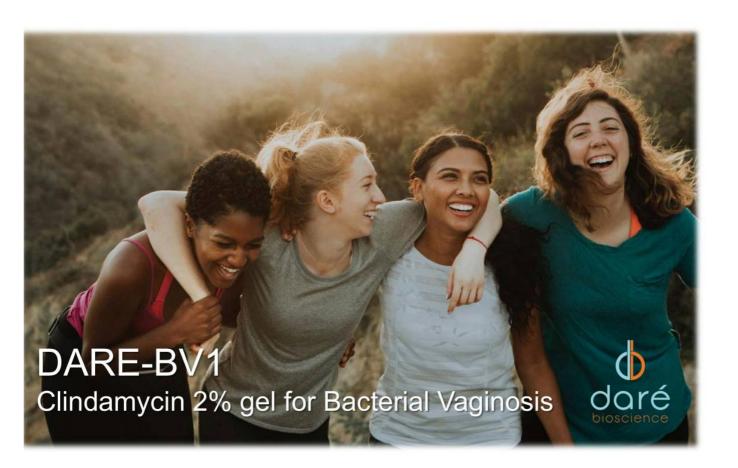
Timeline reflects management's current estimates and constitutes a forward looking statement subject to qualifications elsewhere in the presentation. Actual development timeline may be substantially longer, and Daré is und obligation to update or review this estimate. "First-in-category" designations are forward looking statements based on currently available, FDA approved therapies.

Portfolio Timeline Overview



Timeline reflects management's current estimates and constitutes a forward looking statement subject to qualifications elsewhere in the presentation. Actual development timeline may be substantially longer, and Daré is under no obligation to update or review this estimate.

^{^505(}b)(2) regulatory pathway anticipated.
'Ovaprene Post Coital Test (PCT) is a pre-pivotal clinical study.



DARE-BV1 Overview

Bacterial Vaginosis (BV)

Successful Proof of Concept

- Vaginal application of DARE-BV1 (clindamycin phosphate 2%) demonstrated effectiveness against BV in a proof-of-concept investigator initiated study in women (n=30):1
- 86% of evaluable subjects met clinical cure endpoint at Test-of-Cure visit after single dose administered
- Favorable efficacy profile over currently approved treatments

505(b)(2) Regulatory Pathway

· Single Phase 3 clinical trial planned for FDA approval

Attractive Market Opportunity

- BV is the most common vaginal infection in women ages 15-44 2
- U.S. prevalence estimated to be ~21 million among women ages 14-49 ²
- Approved prescription drugs have less than optimal clinical cure rates (37-68%) 3
- Opportunity for significant upside and market expansion

Patent Coverage

- Patents covering the licensed technology have been granted with terms through 2028
- Additional patents pending would have terms through 2035

- 1. Data on file 2. https://www.cdc.gov/std/bv/stats.htm
 3. BV Product Data: http://www.ccicses.com/pdf/Pl.pdf; http://www.accessdata.fda.gov/drugsatfda_docs/label/2014/205223s000lbl.pdf; http://www.accessdata.fda.gov/drugsatfda_docs/label/2014/205223s000lbl.pdf

Gel Delivery Technology

| Features | Description | Innovative Product Profile |
|--------------------------------|---|--|
| In-Situ Gelation | Undergoes solution to gel (sol-to-gel) transition using body temperature as the trigger | Allows product to be easily and directly placed at the site of infection Increased viscosity following application keeping the product at the site of application |
| | | |
| Sustained-Erosion | Platform can be optimized to erode over a period of hours to multiple days | Designed for a dual-release pattern providing maximal exposure time and amount of drug at the site of action Allows optimization of dosing duration for clindamycin – a time dependent antibiotic |
| | | |
| Bio-Resorption and Adhesion | Hydrophilic ingredients are compatible with a variety of APIs | Reinforces ability of product to bio-adhere at the site of application Eliminates need to remove product following completion of treatment regimen |

Bacterial Vaginosis DARE-BV1 Investigator Initiated Proof of Principle Study Design

Study Objective: Study the Efficacy and Safety of DARE-BV1 in the Treatment of Bacterial Vaginosis (n = 30)

| Day 1 Baseline Visit | Day 7 - 14 Test-of-Cure Visit | Day 21 - 30 Continued Clinical Response Visit |
|--|--|---|
| | | |
| Single dose administered | Patients questioned regarding comfort level & re-examined | Patients questioned regarding experience & re-examined |
| Tests Performed: Physiological symptoms pH Saline "wet mount" 10% KOH "whiff test" Urine pregnancy (if needed) | Tests Performed: Physiological symptoms pH Saline "wet mount" 10% KOH "whiff test" Urine pregnancy (if needed) | Tests Performed: Physiological symptoms H Saline "wet mount" MOH "whiff test" Urine pregnancy (if needed) |

- Eligibility: Female subjects 18 years or older with confirmed clinical diagnosis of BV
- Primary Endpoint: Clinical Cure at Test-of-Cure visit (defined as resolution of clinical findings from baseline visit);
- Secondary Endpoints: Proportion of patients with therapeutic and bacteriologic cures, 1,2
- Safety: Patients were questioned about their comfort level and adverse reactions they experienced.

1. Therapeutic cure was a composite endpoint, which required both clinical cure (defined as clinical cure: resolution of all 4 Amsel criteria) and bacteriologic cure (Nugent score < 4). Bacteriologic cure required a Nugent score < 4.

2. Amsel & Gram Stain Criteria: https://www.cdc.gov/std/tg2015/bv.htm

Bacterial Vaginosis DARE-BV1 Investigator Initiated Proof of Principle Study Design

A single dose of DARE-BV1 demonstrated high clinical cure rate compared to other approved products

| Product | Clinical (Amsel) Cure | Bacteriologic (Nugent) Cure | Therapeutic Cure |
|---|-----------------------|--------------------------------|------------------|
| DARE-BV1 novel get (clindamycin) | 86% | 57%* | 57%* |
| Solesec® ¹ (secnidazole 2g oral granules | 53-68% | 40-46% | 35-40% |
| Clindesse®2 clindamycin phosphate Vaginal Cream, 2% | 41-64% | 45-57% | 30-42% |
| Metrogel, 1.3% ³ | 37% | 20% | 17% |

^{*} Based on data from 9 evaluable patients

- · 28 of 30 women completed the study
- Test-of-Cure Visit (Day 7 14)
 - · 24 of 28 (86%) women achieved clinical cure based on Amsel criteria
 - 4 of 7 (57%) women had bacteriologic cure and 4 of 7 (57%) had therapeutic cure
- Continued clinical response visit (Day 21 30)
 - 22 of 24 (92%) women showed continued clinical cure
 - · 7 of 9 women had bacteriologic cure and 6 of 9 had therapeutic cure

^{1.} https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=551e43d5-f700-4d6e-8029-026f8a8932ff&type=display. Cure rate range reflects low and high cure rates across multiple studies.
2. http://www.clindesse.com/pdf/Pl.pdf. Cure rate range reflects low and high cure rates across multiple studies.
3. http://www.accessdata.fda.gov/drugsatfda_docs/label/2014/205223s000lbl.pdf

DARE-BV1

Bacterial Vaginosis Opportunity Overview

DARE-BV1 offers an attractive value proposition based on our belief that it has a low clinical risk profile, low development and regulatory costs, and an attractive commercial opportunity

Proof of principal study complete

- o 86% clinical cure rate in evaluable subjects
- o favorable efficacy profile compared to currently approved treatments

Low Clinical Risk

Same API (clindamycin phosphate 2%) as in currently approved treatment

Single Phase 3 clinical trial for FDA approval ¹ Exploiting the 505(b)2 regulatory pathway

Low Development Cost
Anticipate less than \$10 million
(Includes manufacturing, clinical trial, regulatory filing & action)

Prevalence estimated to be ~21M among women ages 14-49 in the US

Approved prescription drugs have low patient share due to limited efficacy

Significant Market Opportunity

Opportunity for upside and market expansion

1. Based on prior sponsor communications with the FDA, one successful Phase 3 study with sufficient power and size may be sufficient for marketing approval in the U.S.



1. Global Market Insights, https://globenewswire.com/news-release/2016/05/19/841462/0/en/Contraceptives-Market-size-to-exceed-33-Billion-by-2023-Global-Market-Insights-Inc.html

Ovaprene® Overview

Successful Proof of Concept Study

- Ovaprene demonstrated effectiveness in preventing sperm from entering the cervical canal in a proof-of-concept study in women (n=20):1
 - No viable sperm in the cervical mucus
 - No colposcopic abnormalities

CDRH (Device) Regulatory Pathway

· Single pivotal clinical trial expected for FDA approval

Attractive Market Opportunity

- >\$6 billion in US Rx sales of contraceptive products (2016).2
- 40 million women of reproductive age currently use a contraceptive method.3

Patent Coverage

- Patents covering the licensed technology have been granted with terms through 3Q 2028
- Opportunity for Patent Term Extension (PTE) and potential new patents
- Journal of Reproductive Medicine 2009; 54: 685-690
 IMS NSP through Dec 2016
 www.guttmacher.org, contraceptive fact sheet

Ovaprene® Overview

Advances in hormone products have largely focused on reducing the hormone dosage, adjusting or extending the duration of protection and optimizing methods of administration.









Reduction of hormones and convenient product forms are driving new innovation

- Lo Loestrin®
 - Pregnancy prevention with the lowest amount of daily estrogen (10 micrograms) available.
 - 2018 US sales: \$527 million (Allergan)⁵
- - · Monthly, convenient vaginal ring product form.
 - 2018 worldwide sales: \$902 million (Merck)⁶
- Mirena® Product Family
 - · Physician inserted, long-acting.
 - · Low/locally delivered hormone IUS.
 - · 2018 worldwide sales: \$1.14 billion (Bayer)
- 1. Lo Loestrin Fe contains a low-dosc combination of two female hormones. https://www.loloestrin.com/loloestrin/about-lo-loestrin. Lo Loestrin® and its design are registered trademarks of Allergan

 2. Minastrin https://www.minastrin24.com. Minastrin® is a registered trademark of Allergan Pharmaceuticals International Limited.

 3. https://www.mirena-us.com/about-mirena/

 5. https://www.allergan.com/investor/snews/thomson-reuters/allergan-reports-fourth-quarter-and-full-year-2018

 6. https://investors.merck.com/news/press-release-details/2019/Merck-Announces-Fourth-Quarter-and-Full-Year-2018-Financial-Results/default.aspx

 7. https://www.bayer.com/en/bayer-annual-report-2018.pdfx. Includes sales for Mirena®, Kyleena® and Jaydess® / Skyla®

 Pharmaceuticals International Limited.

 Pharmaceuticals International Limited.

Ovaprene® Overview

Women's Preferences

- 1. Effective Pregnancy Prevention
- 2. Convenient Product Forms
 - · Independent surveys revealed that the vaginal ring has many of the features women deemed extremely important.1
- 3. Method Mix
 - >70% of women who practice contraception currently use non-coital (not in the moment) methods.2
- 4. Less Hormones
 - · A majority of women prefer a monthly option with a lower hormone dose than the pill.3

CONTRACEPTIVE METHOD CHOICE

Most effective method used in the past month by U.S. women, 2014

| METHOD | No. of women | % of women aged 15-44 | % of women at risk of unintended pregnancy | |
|---|-----------------|-----------------------------|--|---|
| Pill | 9,572,477 | 15.6 | 22.7 | Ī |
| Tubal (female) sterilization | 8,225,149 | 13.4 | 19.5 | |
| Male condom | 5,496,905 | 8.9 | 13.0 | I |
| IUD | 4,452,344 | 7.2 | 10.6 | |
| Vasectomy (male sterilization) | 2,441,043 | 4.0 | 5.8 | ١ |
| Withdrawal | 3,042,724 | 5.0 | 7.2 | ı |
| Injectable | 1,481,902 | 2.4 | 3.5 | 1 |
| Vaginal ring | 905,896 | 1.5 | 2.1 | |
| Fertility awareness- based methods | 832,216 | 1.3 | 2.0 | |
| Implant | 965,539 | 1.6 | 2.3 | |
| Patch | 69,106 | 0.1 | 0.2 | ١ |
| Emergency contraception | 69,967 | 0.1 | 0.2 | ı |
| Other methods* | 234,959 | 0.4 | 0.6 | ı |
| No method, at risk of unintended pregnancy | 4,408,474 | 7.2 | 10.5 | |
| No method, not at risk | 19,302,067 | 31.4 | na | 1 |
| Total | 61,491,766 | 100.0 | 100.0 | 1 |

www.guttm

Lessard, L,Perspectives on Sexual and Reproductive Health, Volume 44, Number 3,9-2012
 https://www.guttmacher.org/fact-sheet/contraceptive-use-united-states
 Hooper, DJ, Clin Drug Investig. 2010;30(11):74963

Current Contraceptive Landscape - what's missing?

> Hormone-free alternatives that are effective and easy to use

Hormone Free Product Landscape Least Effective Methods Spermicides / Vaginal Gels Typical Use Method Perfect Use C Effectiveness (72% Typical Use) Spermicide* / Vaginal Gels 82.00% 72.00% Woman controlled Sponge-Parous* 80.00% 76.00% Sponge-Nulliparous* 91.00% 88.00% Used "in the moment" Condom (male)* 98.00% 82.00% Condoms Diaphragm* 94.00% 88.00% Effectiveness (82% Typical Use) Combined Pill & Progestin only* 99.70% 91.00% Evra Patch® 99.70% 91.00% Not woman controlled Nuva Ring 99.70% 91.00% Used "in the moment" Depo-Provera® 99.80% 94 00% IUD- ParaGard (Copper T)* 99.40% 99.80% Diaphragms IUD- Mirena (LNg)* 99.80% 99.80% Effectiveness (88% Typical Use) 99.95% 99.95% Woman controlled Female Sterilization 99.50% Male Sterilization* 99.90% 98.85% Used "in the moment" Long-acting IUD Effectiveness (99% Typical Use) Not woman controlled Physician inserted Most Effective Methods

^{1.} Trussell J. Contraceptive Efficacy. In Hatcher RA, Trussell J, Nelson AL, Cates W, Kowal D, Policar M. Contraceptive Technology: Twentieth Revised Edition. New York, NY: Ardent Media, 2011. 2. http://www.contraceptivetechnology.org/wp-content/uploads/2013/09/CTFailureTable.pdf

Ovaprene® Overview

Ovaprene® Non-hormonal, Monthly Vaginal Ring

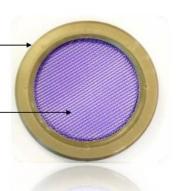
Spermiostatic Environment¹

- · Achieved through a contraceptive-loaded silicone ring matrix.
- · Releasing non-hormonal active Ferrous gluconate.

Physical Barrier¹

· 3-D, non-braided, fluid-permeable mesh barrier.

Rx distribution (OB/GYN) – anticipated upon approval.



1. Data on file

Ovaprene® Overview

Ovaprene successfully prevented sperm from reaching the cervical canal in a previous human postcoital test (PCT) clinical study.

- 2009 Postcoital Assessment:
 - · Open-label, single-arm, pilot safety and tolerability study.
 - · Published in the Journal of Reproductive Medicine, 2009.
- Patients:
 - N= 20; all women completed one cycle of use.
- Results:
 - Postcoital testing revealed no viable sperm in the cervical mucus.
 - · No colposcopic abnormalities, no significant changes in vaginal flora and no serious adverse effects observed.

| Method | Perfect Use | Typic |
|---------------------------------|-------------|-------|
| Spermicide* / vaginal gels | 82.00% | 72. |
| Sponge-Parous* | 80.00% | 76. |
| Sponge-Nulliparous* | 91.00% | 88. |
| Condom (male)* | 98.00% | 82. |
| Diaphragm* | 94.00% | 88. |
| Combined Pill & Progestin only* | 99.70% | 91. |
| Evra Patch* | 99.70% | 91. |
| Nuva Ring* | 99.70% | 91. |
| Depo-Provera* | 99.80% | 94. |
| IUD- ParaGard (Copper T)* | 99.40% | 99. |
| IUD- Mirena (LNg)* | 99.80% | 99. |
| Implanon* | 99.95% | 99. |
| Female Sterilization* | 99.50% | 99. |
| Male Sterilization* | 99.90% | 98. |

In PCT studies of similar size, products (diaphragms) with no motile sperm in the cervical mucus during their PCT assessments demonstrated "typical use" contraceptive effectiveness of 88% in pivotal contraceptive studies evaluating pregnancy rates over time.

- 1. Journal of Reproductive Medicine 2009; 54: 685-690
 2. Trussell J. Contraceptive Efficacy. In Hatcher RA, Trussell J, Nelson AL, Cates W, Kowal D, Policar M. Contraceptive Technology: Twentieth Revised Edition. New York, NY: Ardent Media, 2011. 3, http://www.contraceptivetechnology.org/wp-content/uploads/2013/09/CTFailureTable.pdf

Ovaprene® Overview

U.S. Regulatory Strategy

- · PMA with CDRH (Medical Device Division) as lead review division.
- Pathway expected to be based on similar CDRH approvals Example: Caya® diaphragm.*
 - Step 1 Postcoital test (PCT) 2018 / 2019*
 - · The study is enrolling up to 50 couples.
 - · 25 women complete a total of 21 visits
 - Evaluated over the course of five menstrual cycles.
 - Each woman's cervical mucus will be examined at several points during the study:
 - · Cycle 1 Baseline (excludes the use of any product),
 - · Cycle 2 Use of a barrier method (diaphragm),
 - · Cycles 3,4 and 5 Ovaprene vaginal ring.
 - Assess progressively motile sperm (PMS) per high powered field (HPF) in the cervical mucus, post coitus (primary endpoint <5 PMS per HPF).
 - · Safety assessments, PK, acceptability, fit, and ease of use.
 - · Data from the study is expected to be available in the second half of 2019.
 - If the PCT clinical trial demonstrates <5 PMS / HPF in the cervical mucus in
 most women and that Ovaprene can be safely worn over multiple weeks,
 the Company intends to prepare and file an Investigational Device Exemption
 (IDE) with the FDA to commence a pivotal clinical trial to support marketing
 approvals of Ovaprene in the United States, Europe and other countries
 worldwide.

- → Step 2 Pivotal Study 2020 / 2021*
 - · Single pivotal clinical (expected).
 - N= ~250 completers over 6 months of use
 - Primary Endpoints: Safety & Efficacy
 - Pregnancy probability.
 - · Secondary Endpoints:
 - · Acceptability/product fit/ease of
 - · Assessments of vaginal health.

New Contraceptive Option Ovaprene® Overview

| Features Desired Most in Birth Control: 1-4 | Design Features of Ovaprene: ^{5,6} | |
|--|---|--|
| Convenience (Easy to Use & Easy to Remember) | Monthly Ring Product Form Women chose rings for the convenience of a non-daily option. | |
| | No Hormones in the API Unique dual action MOA (spermiostatic & barrier). | |
| ♠ Efficacy | Expected Typical Use Effectiveness Comparable to Hormone Contraception (88% vs 91%). | |
| Tavorable Side Effect Profile | No Colposcopic Abnormalities No significant changes in vaginal flora. No serious adverse effects observed in prior published study. | |
| Easily Manage Fertility | No Systemic Activity Inserted and removed without a provider. Immediate return to fertility. | |

https://www.urban.org/urban-wire/women-wanl-effective-birth-control
 Lessard, L,Perspectives on Sexual and Reproductive Health, Volume 44, Number 3,9-2012
 Hooper, DJ, Clin Drug Investig. 2010;30(11):74963
 Freek, J, Matern Child Health J (2011) 15:497–506
 Journal of Reproductive Medicine 2009; 54: 685-690
 Trussell J. Contraceptive Efficacy. In Hatcher RA, Trussell J, Nelson AL, Cates W, Kowal D, Policar M. Contraceptive Technology: Twentieth Revised Edition. New York, NY: Ardent Media, 2011.



1. https://www.visiongain.com/sexual-dysfunction-drugs-market-will-reach-7-7bn-in-2019-predicts-a-new-visiongain-study/

Sildenafil Cream, 3.6%

Successful Proof of Concept

- Sildenafil Cream, 3.6% improved genital blood flow in a proof-of-concept study (n=31):1
 - Efficacy signal observed in both pre and postmenopausal patients
 - Excellent systemic/local safety and tolerability profile

505(b)(2) Regulatory Pathway

• Ability to leverage the safety profile of sildenafil (Viagra®) for FDA submission package

Attractive Market Opportunity²

- 33% of females in the U.S. (21 to 60 years old) experience symptoms of low or no sexual arousal
- 16% (~10m women) are considered distressed and are seeking a solution to improve their condition

Patent Coverage

- Patents covering the licensed technology have been granted with terms through 2031 (through June 2029 in the U.S.)
- No ANDA route: ANDA is not currently an option for topicals that result in low systemic uptake

1. Data on file
2. Ad Hoc Market Research: FSAD Prevalence Report (Oct 2015) conducted for SST LLC. Based on US Census projections for 2016.

Sildenafil Cream, 3.6%

Dyspareunia

Vulvar-Vaginal Atrophy

Hypoactive Sexual Desire Disorder (HSDD)

Female Sexual Arousal Disorder (FSAD)







No Approved **Products**





With its approval of Addyi®, FDA has now acknowledged and formally classified the distinct and separate disorders that comprise Female Sexual Dysfunction.

Where HSDD is characterized primarily by a lack of sexual desire, FSAD is characterized primarily by an inability to attain or maintain sufficient physical sexual arousal.

- INTRAROSA is a registered trademark of Endoceutics, Inc.
 Imvexxy is a trademark of TherapeuticsMD, Inc.
 Osphena is a registered trademark of Duchesnay USA, Pennsylvania, USA.
 ESTRACE® is a registered trademark of Allergan Pharmaceuticals International Limited.
 Premarin is a registered trademark of Pfizer Inc.
 Addyi is a registered trademark of Sprout Pharmaceuticals, Inc.

Sildenafil Cream, 3.6%

FSAD is characterized primarily by an inability to attain or maintain sufficient physical sexual arousal; it is also characterized by distress or interpersonal difficulty.*

- Estimated 23-33% of women suffer from arousal disorder:
 - Meta-analysis of 95 studies from 2000-2014 indicated the prevalence of Female Sexual Dysfunction in premenopausal women worldwide is 40.9%, and difficulty with arousal alone is 23%.1
 - 33% of women in the U.S. age 21 to 60 (approximately 20 million women), experience symptoms of low or no sexual arousal.2,3
 - 10 million women are considered distressed and actively seeking treatment.²

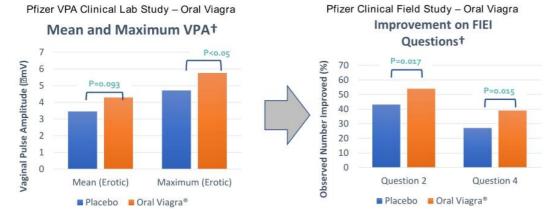
*Diagnostic and Statistical Manual 4th Edition Text Revision (DSM IV TR), defines female sexual arousal disorder as a persistent or recurrent inability to attain or to maintain until completion of the sexual activity, an adequate lubrication-swelling response of sexual excitement. The diagnostic criteria also state that the inability causes marked distress or interpersonal difficulty, is not better accounted for by another Axis I disorder (except another sexual dysfunction), and is not due exclusively to the direct physiological effects of a substance (e.g., a drug of abuse, a medication) or a general medical condition.

McCool et al. Sex Med Rev 2016;4:197-212.
Ad Hoc Market Research: FSAD Prevalence Report (Oct 2015) conducted for SST LLC.
Based on US Census projections for 2016.

Sildenafil Cream, 3.6%

Increased blood flow and clinical efficacy with oral sildenafil (Viagra®) in women:

- Statistically significant increases in Vaginal Pulse Amplitude (VPA)
- · Statistically significant improvement in genital stimulation (FIEI)2



Key Takeaways of Viagra

- Oral sildenafil (Viagra) demonstrated statistic significant activity
- Side effects of the ora formulation led to the investigation of a new route of administration

Female Intervention Efficacy Index (FIEI)

† Question #2 – "After taking study medication, the sensation/feeling in my genital (vaginal, labia, clitoris) area during intercourse or stimulation (foreplay) seemed to be: (a) more than before, (b) less than before, or (c) unchanged". Question #4 – "After taking the study medication, intercourse and/or foreplay was: (a) pleasant and satisfying, better than before taking the study medication, (b) unpleasant; worse than before taking study medication, (c) unchanged; no difference, or (d) pleasant; but still not like it use to be or I would like it to be; "a zoa postmenopausia women with 2M who had protocol specified estradiol and free testosterone concentrations, and/or were receiving estrogen and/or androgen replacement therapy were studied.

[†] Twelve healthy premenopausal women were studied.

^{1.} The Enhancement of Vaginal Vasocongestion by Sildenafil in Healthy Premenopausal Women. Journal of Women's Health & Gender-Based Medicine. Vol. 11, No. 4. 2002 2. Safety and Efficacy of Sildenafil Citrate for the Treatment of FSAD: A Double-Blind, Placebo Controlled Study. The Journal of Urology. Vol 170, 2333-2338, December 2003.

Sildenafil Cream, 3.6%

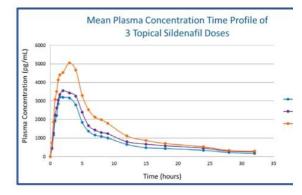
Phase 1 Study Sildenafil Cream, 3.6%1

- Normal healthy postmenopausal women were dosed with escalating doses of Sildenafil Cream, 3.6%, using a cross-over study design.
- Topical sildenafil had significantly lower systemic exposure compared to a 50 mg oral sildenafil dose
 - AUC 3-6%
 - C_{max} 1-2%
- Safe and very well tolerated at clinically relevant doses (1-2g)
- Favorable product characteristics as self reported by subjects
 - · Easy to use
 - · Readily absorbed

Phase 2a Study of SST-6007 (Sildenafil Cream, 3.6%)1

 Demonstrated increased blood flow in the genital tissue compared to placebo (mean change in VPA analysis) in 31 women (pre and postmenopausal) ~30 minutes post dosing

| Treatment | N | Sildenafil Single Dose | C _{max} (ng/ml) | T _{max} (hr) | A (h |
|------------------------------------|----|---------------------------|-----------------------------|--------------------------|---------|
| Topical Sildenafil 1 g of cream | 20 | 35 mg | 3.4 | 2.37 | |
| Topical Sildenafil 2 g of cream | 20 | 71 mg | 3.8 | 2.27 | |
| Topical Sildenafil 4 g of cream | 19 | 142 mg | 5.3 | 2.22 | |



1. Data on file. Sildenafil Cream, 3.6% was previously known as SST-6007.

Sildenafil Cream, 3.6%

Phase 2b Program: Continue to explore additional clinical and non-clinical work that might be valuable or required to support the overall program and the anticipated design of the Phase 2b.

Content Validity

- A content validity study is designed to help ensure the concepts we plan to measure are the most important and relevant to our target population.
- This is a non-interventional study participants will not be asked to use or evaluate any products.

Planned Type C Meeting

 We will request at Type C meeting to get feedback on whether the agency agrees that the patient reported outcomes (PRO) instruments are content valid for the target population.

At Home Study

At Home Study Initiation Anticipated 2019 Topline Data – 4Q 2020

- The Phase 2b at-home study will allow patients to use the investigational product and placebo in their home setting.
- The FDA is agreeable to a 12week Phase 2b for Sildenafil Cream, 3.6% to assess reasonable safety and preliminary efficacy.
- The 2016 Draft Guidance reflects expectations regarding Phase 3 study length and patient population.

Key Takeaways:

 The Phase 2b program will consist of a content validation component (ongoing), followed by at-home dosing of the investigational product and a placebo control. The plan is to use the selected PRO instrument and FDA agreed upon endpoints for the Phase 2b and Phase 3 clinical trials.

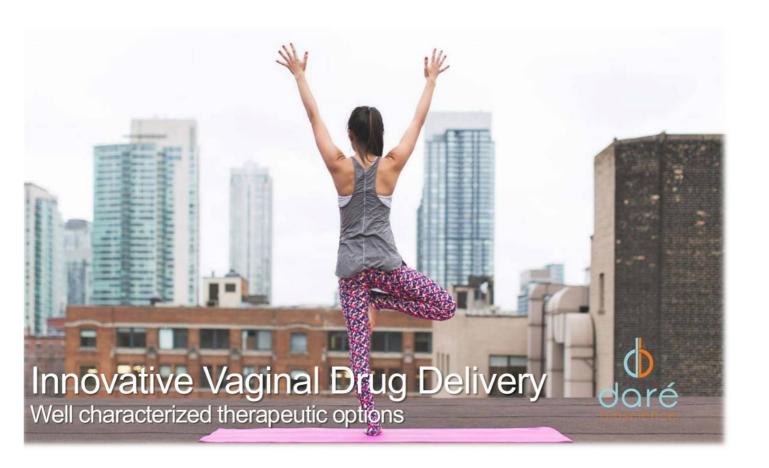
Sildenafil Cream, 3.6%



With its approval of Addyi®, FDA has now acknowledged and formally classified the distinct and separate disorders that comprise Female Sexual Dysfunction.

Where HSDD is characterized primarily by a lack of sexual desire, FSAD is characterized primarily by an inability to attain or maintain sufficient physical sexual arousal.

- INTRAROSA is a registered trademark of Endoceutics, Inc.
 Imvexxy is a trademark of TherapeuticsMD, Inc.
 Osphena is a registered trademark of Duchesnay USA, Pennsylvania, USA.
 ESTRACE's is a registered trademark of Allergan Pharmaceuticals International Limited.
 Premarin is a registered trademark of Pfizer Inc.
 Addy is a registered trademark of Sprout Pharmaceuticals, Inc.



Intravaginal Ring (IVR) Technology Platform

Daré has an exclusive, global license to novel IVR technology originally developed by Dr. Robert Langer from MIT and Dr. William Crowley from Massachusetts General Hospital and Harvard Medical School that has been further developed by Juniper Pharmaceuticals. Daré's exclusive license covers all rings in development as well as additional applications of the IVR technology platform in other therapeutic areas.

- · Features of the intravaginal ring technology include:
 - · Sustained drug delivery
 - · Variable dosing and duration
 - Single or multiple drug delivery via a solid ethylene vinyl acetate polymer matrix (without the need for a membrane or reservoir to contain the active drug or control the release)
- Current 505(b)(2) candidates licensed from Juniper include:
 - DARE-HRT1
 - A combination bio-identical estradiol + bio-identical progesterone ring for hormone replacement therapy
 - DARE-FRT1
 - · A bio-identical progesterone ring for the prevention of preterm birth and for fertility support as part of an IVF treatment

1. http://www.ibtimes.com/robert-langer-top-mit-biomedical-engineer-father-30-companies-how-launch-successful-2141263 2. https://reproendo.mgh.harvard.edu/programs/research-investigators/dr-william-crowley/

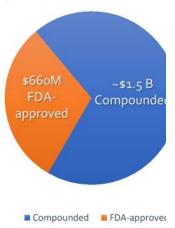
Hormone Replacement Therapy (HRT)

DARE-HRT1 (bio-identical estradiol + bio-identical progesterone)

HRT remains the most effective treatment for vasomotor symptoms (VMS) and the genitourinary syndrome of menopause (GSM) and has been shown to prevent bone loss and fracture.1

- 45M women in U.S. approaching or in menopause.²
- 2012 NAMS consensus statement supports HRT in peri- and postmenopausal women – estrogen to reduce symptoms and progesterone to prevent thickening of uterine wall.3
- NAMS recommends non-oral route over oral.³
- 2002 Women's Health Initiative (WHI) study showed that the long-term use of certain synthetic hormones (a combination of medroxyprogesterone and conjugated equine estrogens) increased the risk of breast cancer, stroke, heart attack and blood clots

\$2.2 Billion U.S. Mar



^{1.} The 2017 hormone therapy position statement of The North American Menopause Society; Menopause: The Journal of The North American Menopause Society Vol. 24, No. 7, pp. 728-753 2. U.S. Census Bureau, Population Division, Table 2. 2015 to 2060 (NP2012-T2). Released Dec. 2012.
3. Menopause, Vol. 19, No. 3, 2012.
4. U.S. 2014. Source: Symphony Health Solutions Report

Hormone Replacement Therapy (HRT)

DARE-HRT1 (bio-identical estradiol + bio-identical progesterone)

Phase 1 - HRT

DARE-HRT1 for the treatment of VMS due to menopause – combination bio-identical estradiol and progesterone in a convenient 28 day IVR

- Proposed Study:
 - A Phase 1, Open-Label, 3-arm Parallel Group Study to Evaluate the Pharmacokinetics and Safety of DARE-HRT1 (80 μg and 160 μg Estradiol/ 4 mg and 8 mg Progesterone Intravaginal Rings) in Healthy Post-Menopausal Women.
- Primary Objectives:
 - To describe the PK parameters over 28 days using two different dose combinations of DARE-HRT1 Intravaginal ring (IVR):
 - Estradiol 80 μg/Progesterone 4 mg IVR
 - Estradiol 160 µg/Progesterone 8 mg IVR
 - · Identify the steady-state PK after 28 days of each DARE-HRT1
- N=30

Pregnancy Maintenance

DARE-FRT1 (bio-identical progesterone)

- Prevention of Pre-term Birth (PTB)
 - In the US, approximately 12% of pregnancies are preterm (less than 37 weeks)¹
 - Standard interventions include steroids, hormones and tocolytic agents to stop/slow the frequency and duration of contractions2
- Assisted Reproductive Technologies (ART)
 - The global ART market is expected to reach USD 45 billion by 2025, according to a new report by Grand View Research, Inc.3
 - Childbearing postponement is a high impact driver of the infertility treatment market.
 - Increasing marital age, rising tobacco and alcohol consumption, and increasing obesity rates are some of the other factors contributing to the market growth.
 - Furthermore, increasing incidence rate of conditions such as poly-cystic ovarian syndrome (PCOS), tubal factors and endometriosis are other drivers of the market.
 - Record number of women using IVF to get pregnant ⁴
 - More American women have had medical help to have their babies than ever, according to the latest annual report from the Society for Assisted Reproductive Technology.
- https://www.stanfordchildrens.org/en/topic/default?id=prematurity-90-P02401 https://www.uptodate.com/contents/preterm-labor-beyond-the-basics
- https://www.grandviewresearch.com/press-release/global-assisted-reproductive-technology-market https://www.cnn.com/2014/02/17/health/record-ivf-use/index.html

Vaginally Delivered Tamoxifen for VVA

DARE-VVA1

Vaginally Delivered Tamoxifen to treat VVA in HR+ Breast Cancer Patients

- DARE-VVA1
 - · A proprietary formulation of tamoxifen for vaginal administration.
 - Potential to be the first treatment specifically approved for the treatment of vulvar and vaginal atrophy (VVA) in patients with hormone-receptor positive (HR+) breast cancer.
- VVA is a chronic condition characterized by pain during intercourse, vaginal dryness and irritation.
 - Most women use localized estrogen therapy which is contraindicated for the more than two million women diagnosed with, or at risk of recurrence of, ER-positive and PR-positive breast cancer.¹
 - Daré intends to develop this novel local application of tamoxifen to mitigate the symptoms of VVA for
 patients with or at risk for hormone-receptor-positive breast cancer, including women currently on anticancer therapy.
 - Due to the use of aromatase inhibitors for the treatment of HR+ breast cancer, the prevalence of VVA in postmenopausal breast cancer patients is reported to be between 42 and 70 percent.²

1. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2800285/#S16title

2. Clinical Breast Cancer: https://www.sciencedirect.com/science/article/pii/S1526820917300952

Vaginal Tamoxifen – Proof of Concept Study¹

This exploratory study in four postmenopausal women diagnosed with VVA demonstrated that a self-administered va suppository containing tamoxifen (20mg) dosed daily for one week and twice weekly for three months was effective reducing vaginal pH and vaginal dryness.

| Vaginal Tamoxifen | Enrollment | On Treatment | Paired Difference |
|---|---------------------|------------------|------------------------|
| | (Baseline) | (Month 3) | (Baseline vs. Month 3) |
| Median Vaginal pH Lower pH value is a measure of symptom relief Normal vaginal pH is usually less than 4.5.2 | 7.1 | 5.0 | -2.0 median |
| | range 6.5 to 7.5 | range 5.0 to 5.2 | range -2.5 to -1.5 |
| Vaginal Dryness Rated using a visual analogue scale (VAS) that ranged from: 0 = Not bothered by dryness 10 = Extremely bothered by dryness Decreased vaginal dryness is a measure of symptom relief | 8.0 | 3.0 | -5.5 median |
| | range of 7.5 to 9.0 | range 2.0 to 3.0 | range -6.0 to -4.5 |

In addition, systemic absorption of tamoxifen was not significant.

- After 8 weeks of study treatment with vaginal tamoxifen, the median plasma concentration of tamoxifen was 5.8 n with a range of 1.0 to 10.0 ng/ml
- In comparison, after 3 months of administration of 20mg, once-daily oral tamoxifen citrate (Nolvadex),2 the average steady state plasma concentration of tamoxifen is 122 ng/ml with a range of 71 to 183 ng/ml

2. https://www.medicalnewstoday.com/articles/322537.php
3. US Food and Drug Administration: "Drug Approval Package: Nolvadex (Tamoxifen Citrate) NDA# 21-109.2002". Available at: https://www.accessdata.fda.gov/drugsatfda_docs/nda/2002/21109_Nolvadex.cfm

Clin. Exp. Obstet. Gynecol. - ISSN: 0390-6663 XLVI, n. 2, 2019



A New Long Acting Contraceptive Option

Microparticle 6 & 12 Month Injectable Contraception

ORB-204 and ORB-214, injectable etonogestrel

The initial development on Orbis' long-acting injectable contraceptive program was carried out under a subcontract funded by Family Health International (FHI 360) through a grant from the Bill & Melinda Gates Foundation.

ORB-204 & 214 – a potential new injectable contraceptive that is designed to provide discreet, non-invasive, longer-acting reversible protection:

- · Designed to overcome the limitations of the currently marketed injectable contraceptives
- Pre-clinical studies for the 6- and 12- month formulations have been completed to date¹
- · Target product profile of longer-acting injectable etonogestrel
 - Prolonged duration (6 to 12 months)
 - · Improved ease of use, with an improved side effect profile
 - · More predictable return to fertility

1. Data on file

A New Contraceptive Target

DARE-RH1 CatSper

A Novel Approach To Male And Female Contraception.

- The identification of the CatSper target represents the potential to develop a novel class of non-hormonal contraceptive products for both men and women.
 - The discovery of a sperm-specific ion channel, CatSper, was validated in animal models where it was demonstrated that male mice lacking CatSper have poor sperm motility.
 - CatSper proteins are ion channels expressed solely in the membranes of sperm flagellum and are essential to sperm motility.
- Pre-clinical research has demonstrated CatSper mediates hyperactive motility of sperm.
 - Sperm hyperactivity is necessary to penetrate the physical barrier known as the zona pellucida which encloses the ovum and protects the egg.¹
 - The contraceptive benefit of targeting CatSper is achieved by inhibiting sperm hyperactivity and preventing egg fertilization.



Investment Highlights

Financial Profile

NASDAQ: DARE

Balance Sheet, March 31, 2019*:

· Cash: \$3.5 million

· Common shares: 11.42 million

· Common stock warrants: 3.75 million

· No debt

*April 2019: Underwritten public offering of 5.3 million common shares for net proceeds of approximately \$5.2 mil

March 2019: Second Notice of Award under non-dilutive NIH SBIR grant:

- Grant providing up to \$1.9 million in the aggregate for Ovaprene research from the Eunice Kennedy Shriver Natic Institute of Child Health and Human Development (NICHD), a division of the National Institutes of Health (NIH). T Company previously received award payments totaling \$224,665.
- Second Notice of Award, for the additional \$982,851, followed the NIH's review of a data analysis and other result the first phase of research supporting Ovaprene.

Management Team Daré Bioscience

| Sabrina Martucci Johnson, MSc, MIM President and CEO | Cypress Bioscience, Calibr, Advanced Tissue Sciences, WCG, Baxter Healthcare |
|--|---|
| Lisa Walters-Hoffert Chief Financial Officer | ROTH Capital Partners, Citicorp Securities, Bank of America, Oppenheimer & Co |
| David Friend, PhD Chief Scientific Officer | Evofem, CONRAD, Elan Corporation |
| John Fair Chief Business Officer | Evofem, WCG, Havas-Gemini, Aegis Group plc, PwC, Express Scripts |
| Mark Walters Vice President, Operations | Pacira, SkyePharma, Alliance Pharmaceuticals, American Home Products |
| Mary Jarosz, RPh, RAC, FTOPRA Global Head of Regulatory Affairs | Evofem, WCG, Abbott Laboratories |
| Christine Mauck, MD, MPH Medical Director | CONRAD, Population Council, RW Johnson, FDA |
| Bridget Martell, MD, MA Medical Affairs | Juniper Pharmaceuticals, Purdue Pharma, Pfizer |
| Nadene Zack, MSc Sr. Director Clinical Operations | Retrophin, Aragon, Cypress Bioscience, Pfizer |

Board of Directors

Daré Bioscience

| Roger Hawley Chairman | Zogenix, Alios Biopharma, Cypress Bioscience, InterMune, Elan Corporation, GSK |
|------------------------------------|--|
| Jessica Grossman, MD | Medicines360, Sense4Baby, Johnson & Johnson |
| Susan Kelley, MD | Bayer, BMS, ArQule, Cerulean |
| Greg Matz | CooperSurgical - Cooper Companies, Agilent, Hewlett Packard |
| William Rastetter, PhD | Neurocrine Biosciences, IDEC, GRAIL, Receptos, Illumina, Cerulean |
| Robin Steele, JD, LLM | InterMune, Elan Corporation, Alveo, Alios Biopharma |
| Sabrina Martucci Johnson, MSc, MIM | Cypress Bioscience, Calibr, Advanced Tissue Sciences, WCG, Baxter Healthcare |

Corporate & Investor Communications

NASDAQ: DARE Trading as DARE since July 20, 2017







www.darebioscience.com





Bacterial Vaginosis Market Insights

American Sexual Health Association (ASHA), in conjunction with Harris Poll, conducted a national survey of 304 women ages 18 to 49 who have had bacterial vaginosis (BV). The survey was conducted online by Harris Poll on behalf of Symbiomix Therapeutics, LLC, a Lupin company, and the ASHA within the United States between September 14 and 29, 2017 among 304 US women aged 18-49 who have been diagnosed by a healthcare professional with BV within the past 2 years ("women with bacterial vaginosis").

Bacterial Vaginosis Market Insights

American Sexual Health Association (ASHA) National Bacterial Vaginosis Survey

 76% of women with BV stated they would have gone to see a healthcare professional sooner if they were aware of the risks associated with BV if left untreated

IF BV RISK FACTORS WERE KNOV

- Would Seek Treatment Sooner ■ Would Not Seek Treatment Sooner
 - 76%

 Only 43% of women with BV are aware that if left untreated, BV can cause an increased risk of sexually transmitted infections (STIs)

AWARE OF LINK TO STI

Aware BV Can Increase Risk of STIUnaware BV Can Increase the Risk of STI

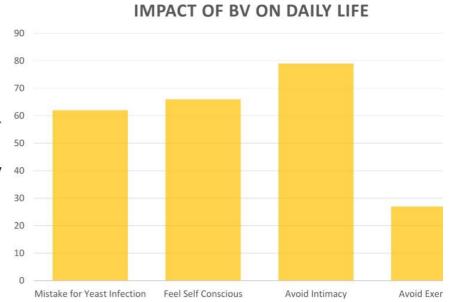


http://www.ashasexualhealth.org/understanding-womens-experiences-with-bacterial-yaginosis/

Bacterial Vaginosis Market Insights

American Sexual Health Association (ASHA) National Bacterial Vaginosis Survey

- According to the ASHA survey, 62% of women mistake BV for a yeast infection prior to diagnosis
- Most women with BV feel selfconscious (68%) and/or embarrassed (66%) due to their condition
- Women with BV avoid everyday activities including being intimate with their spouse/partner (79%), working out (27%), or going on a first date (17%)



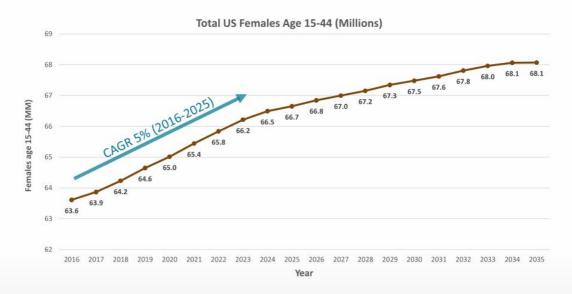
http://www.ashasexualhealth.org/understanding-womens-experiences-with-bacterial-vaginos



Ovaprene Market Insights

Secondary Market Research & Market Sizing Data Prepared by SmartPharma, February 2019. Data on File.

US Contraceptive Population is Over 60 million and Continues to Grow

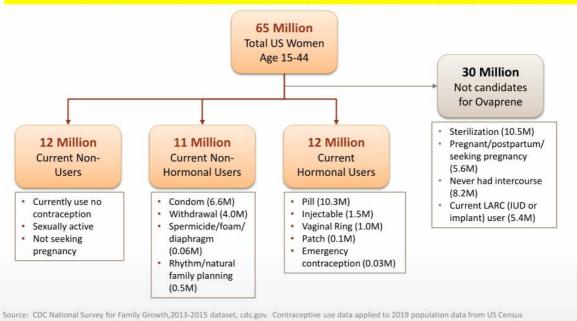


Source: US Census Bureau, 2017 National Dataset (2016 is base population estimate for projection) https://www.census.gov/programs-surveys/popproj.html



Ovaprene Potential – Total Market Size

There are currently 35 million US women who could potentially choose Ovaprene for contraception





Negative Information About Hormones is Persistent in the Public Domain

As a non-hormonal option, Ovaprene does not have to overcome myths or negative "press"

5 Reasons Women Avoid Birth Control

Reason #1: "I don't want to get fat"

Reason #2: "It might make me depressed"

Reason #3: "Birth control causes cancer"

Reason #4: "I don't want to put chemicals in my body"

Reason #5: "I'm not at risk for getting pregnant"

6 Reasons Why You Shouldn't Take The Pill Long

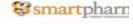
- The pill lowers your sex drive
- The pill shrinks your clitoris and causes painful sex
- The pill causes depression and anxiety
- Long term pill use puts you at an increased risk of cervical cancer
- Long term pill use is associated with a delay in your return to fertility



1. Hormonal Birth Control Comes with Side Effects

- 2. Birth Control is Full of Hormones/Chemicals
- 3. Birth Control Works Against Your Body
- 4. Birth Control *May* Cause Abortions
- 5. A Whole Host of Other Reasons

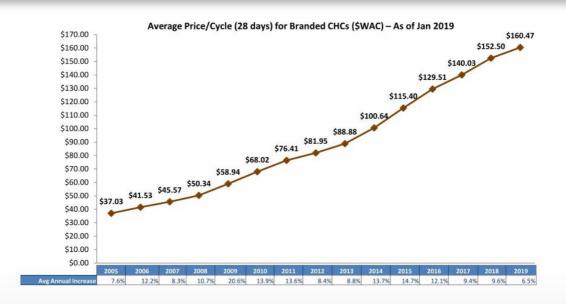
HelloFlo, Mar 22, 2017, www.helloflo.com BIRTH CONTROL Fertility Friday, April 4,2017, www.fertilityfriday.com Equipping Godley Women, April 15, 2015, www.equippinggodleywomen.com



Contraceptive Pricing and Reimbursement



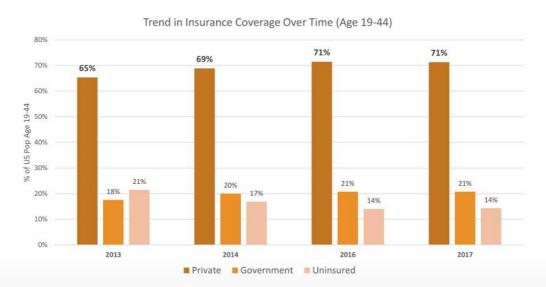
Brand Contraceptives Have Consistently Increased in Price



Source: MediSpan PriceRx, accessed Jan 2019. Average of 13 available branded contraceptives available in US market. Only three of these brands have no generic equivalent, and the average price/cycle for those 3 = \$171.06



Over 70% of Reproductive-Aged Women in the US Have Private Insuranc



*Patients can have more than one form of insurance, so totals may exceed 100%)

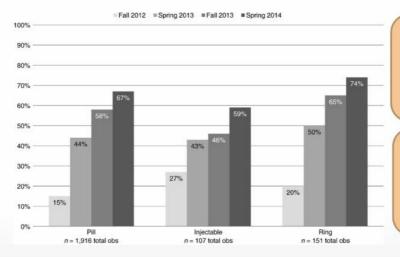
Source: Berchick et al. US Census Bureau, Health Insurance Coverage in the US: 2017, Issued Sep 2018



Most Women Pay \$0 For Birth Control Since the ACA Was Enacted

Percent of Women with \$0 Copay for Birth Control Over Time

(n=892 women age 18-39 with private health insurance who used a prescription contraceptive method)



By spring 2014, mean and median out-of-pocket costs for the pill were \$6.48 and \$0 per month, respectively

HHS issued a clarification in May 2015 that required coverage of at least 1 product per method with 50 copay – therefore the percentages have likely increased since this data

Sources:

Guttmacher Institute Continuity and Change in Contraceptive Use Study in: Sonfeld A, et al. Contraception 2015;91:44-48 US Dept of Health and Human Services (HHS) FAQs About ACA Implementation (Part XXVI), www.cms.gov



ACA Contraceptive Mandate: Current Status of Contraceptive Policy

- Insurance plans must cover all FDAapproved methods with no copay or cost sharing to patients¹
 - They must cover at least one type of each method in each category
- 62.8 million women (age 18-64) now have birth control coverage with no cost sharing²
 - Exemptions and accommodations for religious and moral objections are in place, but they affect only 6,400 to 127,000 women³
 - The latest attempts by the current administration to broaden the exemption has been blocked by two federal courts⁴
- If Ovaprene is approved, it has the potential to be the only product in the category, as it is a vaginal ring with a spermiostatic active.

 ${}^1\!www. Health Care.gov/coverage/birth-control-benefits/$

²National Women's Law Center Fact Sheet, Nov 2018

³HHS Fact Sheet, Nov 7 2018

⁴National Women's Law Center Fact Sheet, Oct 2018 and Washington Post, Jan 14, 2019

Smartpharn



Sildenafil Cream, 3.6% FSAD Demographic Insights & Concept Test

Market Research Report Conducted by Ad Hoc Research on behalf of Strategic Science & Technologies, LLC. 222 Third Street, Suite 2242, Cambridge, MA 02142 – December 2015

FSAD - Psychological & Physiological Impact



The Current Experience of FSAD Sufferers

(Physical and Psychological)

Experience of FSAD Sufferers

- The concept definitely has potential. FSAD sufferers are likely to purchase it and are willing to give it a try.
- · A few questions remain:
 - 1. What do they currently experience during sexual activity that they are hoping the cream will rectify?

| They often feel | They do not often feel |
|--|--|
| The inability to attain an adequate level of sexual excitement | Genital tenseness or tightness |
| The lack of desire for intimacy | Genital pulsing or throbbing |
| Lack of genital or clitoral fullness, pressure or engorgement | The feeling of muscle contractions in their genitals |
| Lack of genital wetness or lubrication | The feeling of readiness |
| | Satisfaction with their level of physical arousal |

2. What are their main physical desires when it comes intimacy?

- They are desperate for their bodies to respond, be it to...
- · Intimacy;
- · An intimate touch;
- · Touch.



Source data on File: Research Report - December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, slide 41-47.

Experience of Female Sexual Arousal Disorder (FSAD) Sufferers

3. What is the psychological impact of this disorder?

- The impact appears to be immense. Emotions run the gamut from dissatisfaction with to anger about their sex lives.
- The most frequent feelings include:
- · Dissatisfaction with their sex lives;
- · Bothered by their low sexual desire;
- . Unhappiness about their sexual relationships; and
- · Frustration due to their sexual problems.
- Thus, conveying an understanding of these feelings, either in claims, in communications or both, will promote interest in the product.



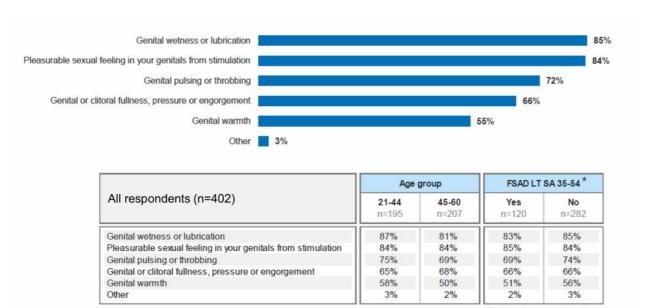
4. What "remedies" have they tried to combat the disorder?



- Almost all FSAD sufferers surveyed have tried "something" to treat their difficulties getting or staying physically aroused.
- The most common are topical lubricants and a vibrator/other accessory for stimulation.

Source data on File: Research Report - December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, slide 41-47.

Female Sexual Arousal Disorder (FSAD) Respondents Indicators of Sexual Arousal

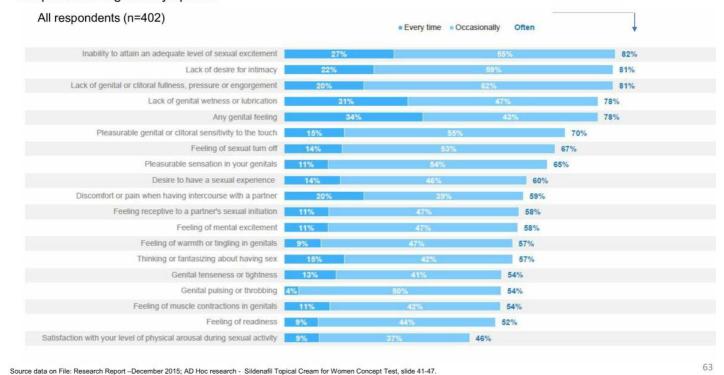


* LT- in a long-term relationship SA - currently sexually active 35-54 - ages of 35 to 54

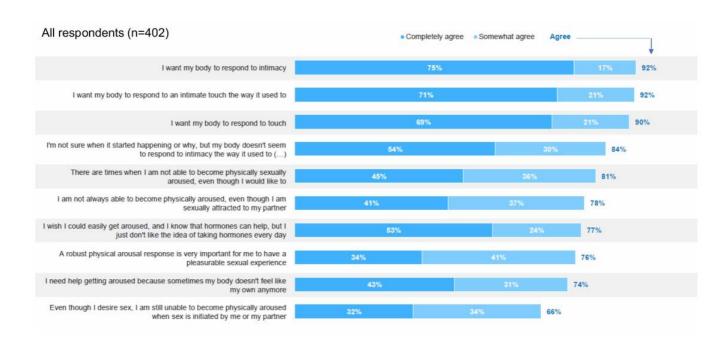
Source data on File: Research Report -December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, silde 41-47.

Female Sexual Arousal Disorder (FSAD)

Respondents Signs & Symptoms

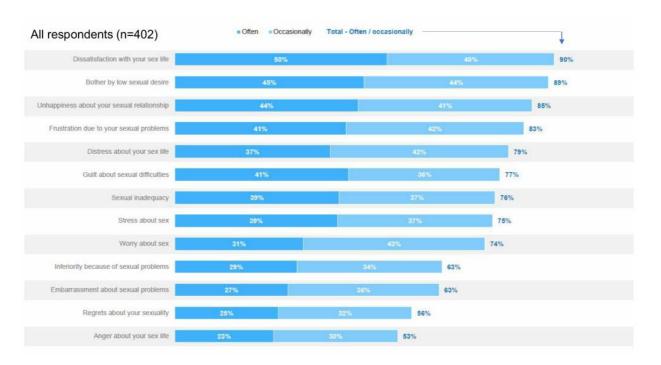


Psychological Impact of FSAD



Source data on File: Research Report - December 2015: AD Hoc research - Sildenafil Topical Cream for Women Concent Test. slide 41-47

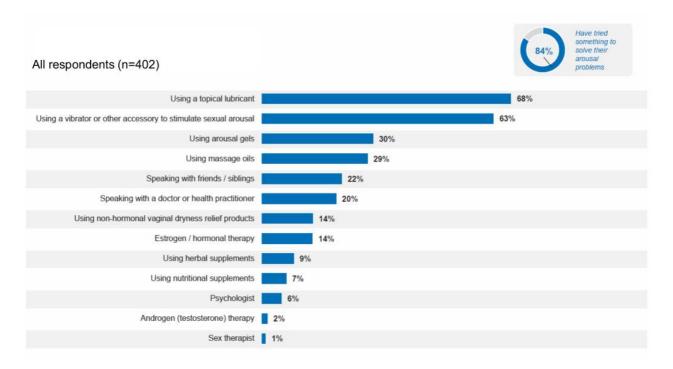
Psychological Impact of FSAD



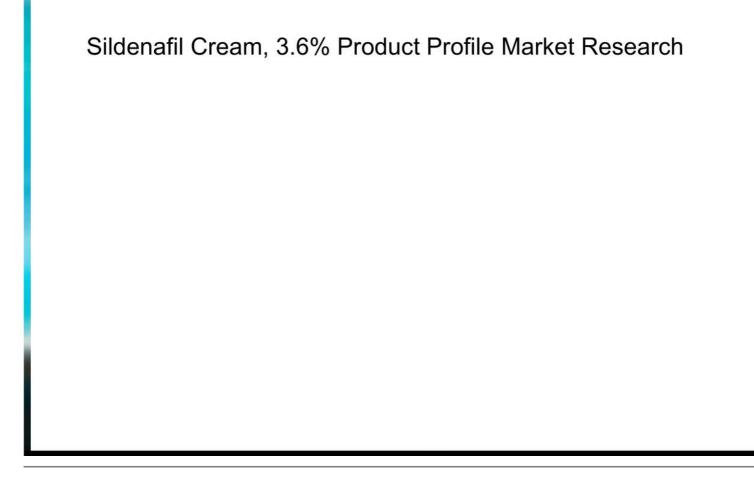
Source data on File Research Report -December 2015: AD Hoc research - Sildenafil Topical Cream for Women Concent Test, slide 41-47

6.

Without an FDA Approved Product for FSAD, Women's Options are Suboptimal



Source data on File: Research Report - December 2015: AD Hoc research - Sildenafil Topical Cream for Women Concent Test, slide 41-47



Sildenafil Cream, 3.6% Concept Testing



402 American women between the ages of 21 and 60 and suffering from Female Sexual Arousal Disorder (FSAD) were surveyed via web panel between November 18 and 23, 2015.



The purpose of this study is to measure the market potential of a topical cream version of *sildenafil* targeting women as a potential remedy for FSAD.



What degree of consumer interest is there in this product idea?

- A significant degree. Many FSAD sufferers have been experiencing symptoms for more than a year. In addition to the physical symptoms they experience, the psychological impact of the disorder is quite burdensome.
- On average, FSAD sufferers have tried approximately 3 different remedies chief among them topical lubricants and vibrators. However, they have found little to no relief.
- FSAD sufferers like the idea. They perceive it to be different from other remedies they have put to the test and they believe it will meet their needs.
- FSAD sufferers are ready to try something new especially one that promises no side effects.

2

What are the potential drivers of and barriers to adoption of the product?

| Potential Drivers | Potential Barriers | | |
|--|---|--|--|
| They want to give it a try . They are ready to try something new. | Embarrassment (in front of their partners, doctors and pharmacists). | | |
| They want to increase their sex drive/sexual arousal. | Believability: will it work? They have tried many other "remedies" that have not. | | |

Source data on File: Research Report - December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, slide 5.

Sildenafil Cream, 3.6% Concept Testing



What are the most motivating claims?

- In concrete terms, the elements of the concept they like the most are:
 - ✓ No side effects (the #1 claim, by a very wide margin);
 - Proven safe;
 - ✓ Clinically tested;
 - ✓ Odorless;
 - √ Absorbs completely;
 - Available without a prescription.



- Any support point that enhances the legitimacy of the product is naturally motivating, be it:
 - ✓ Doctor recommended;
 - Available by prescription only for two years before being available without a prescription;
 - The same active ingredient as in Viagra (although slightly less so than the previous two).



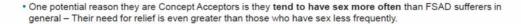
Source data on File: Research Report - December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, slide 10.

Sildenafil Cream, 3.6% Concept Testing - Concept Acceptors



What is the profile of *Concept Acceptors* (in terms of symptoms experienced, relationship to the condition of FSAD, etc.)?

- Concept Acceptors are not widely different from FSAD sufferers as a whole. However, they do appear to be the most severe sufferers of FSAD:
- The intensity of their symptoms and feelings is much stronger.
- * They experience some of the physical symptoms more frequently, such as:
 - · Lack of genital wetness or lubrication;
 - * Lack of genital or clitoral fullness, pressure or engorgement;
 - · Lack of desire for intimacy and;
 - · Genital tenseness or tightness.
- * Not surprisingly, they have an even deeper desire:
 - . For their bodies to respond to touch and intimacy, the way they used to;
 - To have help becoming/staying physically aroused.
- ... On an emotional level, they are even MORE ...
 - . Bothered by their low sexual desire;
 - · Dissatisfied with their sex lives;
 - · Frustrated with their sexual problem;
 - . Engulfed by guilt about their sexual difficulties;
 - · Worried about sex;
 - * Likely to feel sexually inadequate/inferior and;
 - · Embarrassed.





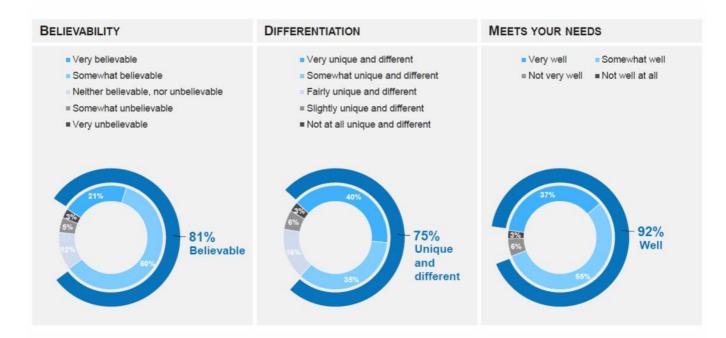
Sildenafil Cream, 3.6% Concept Testing - Purchase Interest

- 82% of respondents indicated they would be likely to purchase, the product if it were currently available.
- A subgroup of respondents aged 35-54 had a higher purchase interest (86%) vs. the aggregate (82%).

| | Total n=402 | Age group | | FSAD LT SA 35-54 | |
|------------------------------|----------------|-----------------------|-----------------------|------------------|--------------------|
| | | 21-44 n=195 | 45-60 n=207 | Yes n=120 | No n=282 |
| Likely | 82% | 81% | 84% | 86% | 80% |
| Very likely | 35% | 31% | 39% | 46% + | 29% + |
| Somewhat likely | 47% | 50% | 44% | 40% + | 51% + |
| Neither likely, nor unlikely | 10% | 9% | 12% | 10% | 10% |
| Unlikely | 8% | 11% + | 5% + | 4% | 10% |
| Somewhat unlikely | 4% | 6% | 3% | 2% | 6% |
| Very unlikely | 4% | 5% | 2% | 2% | 4% |

^{*} LT- in a long-term relationship SA - currently sexually active 35-54 - ages of 35 to 54

Sildenafil Cream, 3.6% Concept Testing – Believability & Viability



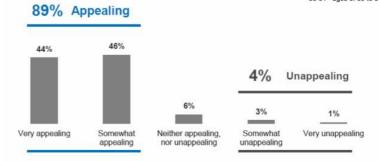
Source data on File: Research Report - December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, slides 5-22.

Sildenafil Cream, 3.6% Concept Testing - Concept Appeal

- The majority of respondents (89%) considered the concept appealing.
- The largest proportion of respondents to consider the concept very appealing were women between the ages of 35-54.

| | Total n=402 | Age group | | FSAD LT SA 35-54* | |
|------------------------------------|----------------|-----------------------|-----------------------|---------------------|--------------------|
| | | 21-44 n=195 | 45-60 n=207 | Yes n=120 | No n=282 |
| Appealing | 89% | 88% | 91% | 95% ↑ | 87% → |
| Very appealing | 44% | 41% | 48% | 50% | 41% |
| Somewhat appealing | 46% | 47% | 44% | 45% | 46% |
| Neither appealing, nor unappealing | 6% | 6% | 7% | 4% | 8% |
| Unappealing | 4% | 6% + | 2% + | 2% | 6% |
| Somewhat unappealing | 3% | 4% | 2% | 1% | 4% |
| Very unappealing | 1% | 2% 🛧 | 0% + | 1% | 2% |

* LT- in a long-term relationship SA - currently sexually active 35-54 - ages of 35 to 54



Source data on File: Research Report - December 2015; AD Hoc research - Sildenafil Topical Cream for Women Concept Test, slides 5-22.